OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

JULY & AUG 1946

VOLUMES 588 & 589

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 588

JULY

1946

BANGOR
PUBLIC
LIBRARY
BANGOR ME.

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1946

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, July 2, 9, 16, 23, 30	3, 183, 353, 519, 673
TRADE-MARKS PUBLISHED AND REGISTERED, July 2, 9, 16, 23	17, 197, 359, 529
TRADE-MARKS REGISTERED, July 30	687
REISSUES, July 2, 9, 16, 23, 30	51, —, 395, 557, 695
PLANT PATENTS, July 2, 9, 16, 23, 30	51, 227, 395, —, —
PATENTS, July 2, 9, 16, 23, 30	53, 228, 396, 558, 696
DESIGNS, July 2, 9, 16, 23, 30	171, 340, 505, 663, 781

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	1, 351
APPLICATIONS—Condition of pending	2, 182, 352, 518, 672
ATTORNEY'S ADDRESS SHOULD APPEAR IN POWER OF ATTORNEY	181
BULLETIN OF DECISIONS ON TRADE-MARKS	681
COMMUNICATIONS TO THE PATENT OFFICE—Separate letter for each inquiry—*Rule* 8	1, 181
DESIGN PATENT No. 21,053 EXTENDED—An Act—Private Law 692—79th Congress	517
DISCLAIMERS:	
Clark, Thomas B	678
Cohen-Weisman Sportswear Corp	678
Compania Azucarera Central Toledo, S. A	678
Delareuelle, Arthur H	13
Frailing, Le Roy H	678
Garman, George W	355
Goldstein, Morris E	13
Kliesrath, Victor W., et al	678
Ruxton Products, Inc	678
Thompson, Edward J	678
EXAMINER'S LETTERS AND AMENDMENTS	181
INTERFERENCE NOTICES:	
Sebastian Contini Co	13
James T. Hiroto	671
NOTICES:	
Titles of Invention—Instruction to Examiners	517, 671
Requests by Attorneys for return of extra copies of Amendments—Instruction in re	351, 517, 671
Mail addressed to United States Patent Office, Instructions in re	517, 671
Copies of Patents—In re increased price to 25 cents per copy	517, 671
Conversion of an Order 3662 application into a statutory application	525
Tentative recordation of Trade Names	1, 525
PATENTS—List of adjudicated	1, 181, 351, 517, 671
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	14, 194, 356, 526, 679
TRADE-MARK REGISTRATIONS CANCELED	525
Notices of cancellation	13, 181, 351, 525, 678

TABLE OF CASES REPORTED

	Page
* De Reamer, In re	11
* Gessler, et al., In re	189
* Greenbaum, In re	521
▪ Houghton *v.* Ooms, Commissioner of Patents	353
* Kliesrath et al., *v.* Kesling	185
Lawrence, Ex parte (C. D.)	519
* Locke Stove Company, In re	677
Magi Company, The, Ex parte (C. D.)	519
* Magitex Company, Inc., *v.* John Hudson Moore, Inc	192
* Mason, In re	522
* McKesson & Robbins, Inc., *v.* The Vad Corporation	520
* National NuGrape Company *v.* Judge & Dolph, Ltd	10
▪ Polaroid Corporation and Smith *v.* Markham, Alien Property Custodian, and Ooms, Commissioner of Patents	673
* Rider *v.* Griffith	674
* Rodli *v.* Phillippi; Rodli *v.* Ling and Phillippi	183
* Thompson, et al., In re	353
* Tone, et al., In re	190
* Warp, In re	3
* Warp, In re	4
* Whittier *v.* Borchardt	6

[Decisions of the United States Court of Appeals for the District of Columbia are indicated by the letter (▪); and of the United States Court of Customs and Patent Appeals by a star (*).]

Patents Nos. 2,402,939 to 2,403,428

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 588—No. 1 TUESDAY, JULY 2, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
ISSUE OF JULY 2, 1946	1
NOTICE	1
NOTICE OF TENTATIVE RECORDATION OF TRADE NAME	1
ADVERSE DECISIONS IN INTERFERENCE	1
ADJUDICATED PATENT	1
APPLICATIONS UNDER EXAMINATION	2
DECISIONS OF THE U. S. COURTS—	
In re Warp No. 5086	3
In re Warp No. 5100	4
Whittier *v.* Borchardt	6
National Nugrape Company *v.* Judge & Dolph, Ltd.	10
In re De Reamer	11
INTERFERENCE NOTICE	13
NOTICES OF CANCELLATION	13
DISCLAIMERS	13
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	14
TRADE-MARKS PUBLISHED (170 APPLICATIONS)	17
TRADE-MARK REGISTRATIONS GRANTED	37
TRADE-MARK REGISTRATIONS RENEWED	43
REISSUES	51
PLANT PATENTS	51
PATENTS GRANTED	53
DESIGNS	171

July 2, 1946

Trade-Marks	95	No. 422,046 to No.	422,140,	inclusive.
T. M. Renewals	179			
Reissues	2	No. 22,769 to No.	22,770,	inclusive.
Plant Patents	5	No. 702 to No.	706,	inclusive.
Patents	493	No. 2,402,939 to No.	2,403,428,	inclusive.
Designs	37	No. 145,113 to No.	145,149,	inclusive.
Total	808			

Notice

Attorneys and others transacting business with the Patent Office are requested to conform with the provisions of rule 8, which is as follows:

"A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters. Papers sent in violation of this rule will be returned."

The filling of orders for photostatic copies can be greatly expedited if attorneys will comply with this rule, observing the following:

1. Separate letters should be written to order copies of each of the following types of material—
   (*a*) File wrapper and contents;
   (*b*) Publications and foreign patents;
   (*c*) Certified copies of patents and trade-mark registrations;
   (*d*) Copies of assignments (certified or uncertified).
2. If photostats are required for foreign filing these should be ordered at least one month before the attorney expects to transmit the material abroad.
3. Photostatic copies of applications as filed to be sent abroad should be ordered in advance of the payment of the final fee.
4. All orders for copies of records for which there is a charge, whether accompanied by a money order, check, or to be charged to the attorney's account, should be addressed to the the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notice of Tentative Recordation of Trade Name

[T. D. 51470]

Tentative recordation of trade name under section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
Washington, D. C., June 10, 1946

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following-described trade name under the provisions of section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943:

"Deauville Watch Co.," owned by Deauville Watch Co., 9–11 Maiden Lane, New York, N. Y., applied to watches, watch movements, and parts thereof manufactured in Switzerland.

The recordation of the foregoing trade name shall become final at the expiration of 30 days after June 18, 1946. Any person who desires to file an opposition to the recordation of this trade name shall file it with the Commissioner of Customs prior to the expiration of such 30-day period.

Until the expiration of the above-mentioned 30-day period any articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless notice of the cancellation of the recordation is sooner received.

(Signed) W. R. JOHNSON,
Commissioner of Customs.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,371,091, G. Wilders, Knitting machine screw-racking mechanism, decided May 29, 1946, claims 1 and 2.

Pat. 2,381,162, F. W. Taylor, Hydraulic system for stabilizers, decided June 3, 1946, claims 1 and 2.

Pat. 2,333,292, S. H. Brooks, Turret-type universal joint, decided Apr. 15, 1946, claim 2.

Adjudicated Patent

(C. C. A. Mass.) Dreymann patent, No. 2,031,036, for a container wall of laminated paper, claim 3 *Held* valid and infringed. *Grant Paper Box Co.* v. *Russell Box Co.*, 154 F.(2d) 729; 69 USPQ 196.

Condition of Applications Under Examination at Close of Business June 14, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 114,473; Trade-Mark Division, 5,988. Oldest new case, January 12, 1945; oldest amended, February 17, 1945.)
(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting action	Oldest amended application awaiting action	No. of applications awaiting action
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Mar. 23	Apr. 18	1883
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Mar. 8	Apr. 20	2276
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 4	1892
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	June 23	July 30	1946
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 12	Mar. 8	3085
6. GENIESSE, E. W., Carbon Chemistry (part)	July 17	June 14	1796
7. JARBOE, C. G., Optics, Photography	Aug. 20	Aug. 31	2024
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 19	May 18	2554
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Mar. 30	Feb. 17	1861
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Nov. 29	Oct. 23	587
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	Mar. 31	May 12	2009
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	May 30	1725
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Aug. 24	Aug. 17	1218
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	June 19	Aug. 3	1391
16. LOVEWELL, N. N., Telegraphy; Telephony	July 4	June 19	1243
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 9	Feb. 20	1039
18. KURZ, J. A., Motors, Explosible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 21	May 24	1668
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 10	Aug. 10	1321
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 2	May 17	1517
21. THOMPSON, T. J., Textiles	Aug. 29	Oct. 3	767
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	May 10	July 25	1634
23. LEWIS, J. B., Cash Registers; Calculators (part)	Apr. 3	May 11	254
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	July 23	Aug. 22	1163
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	May 8	May 16	1397
26. YOUNG, R. R., Electricity—Generation and Motive Power	Apr. 5	Apr. 14	1845
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 3	Mar. 7	1846
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons.	May 8	Apr. 13	1293
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	Apr. 19	May 2	1872
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	May 19	June 8	2009
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 1	Dec. 1	987
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	July 31	Aug. 3	1563
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	May 15	May 8	2196
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	June 29	1019
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	June 25	July 4	1585
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 10	May 30	1223
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 30	May 3	1441
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	May 21	May 28	1299
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 6	Apr. 7	2094
40. DRUMMOND, E. J., Receptacles (part); Packages	July 26	July 23	2141
41. HERTZ, M. Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Mar. 1	Feb. 17	801
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Aug. 7	Aug. 17	980
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Apr. 12	Apr. 20	1370
44. HARVEY, L. P., Refrigeration; Preserving	Mar. 21	Apr. 2	1031
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	June 22	June 21	2011
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	June 5	July 13	1233
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Aug. 17	Aug. 17	2114
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 20	Mar. 20	1776
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	June 27	July 23	1330
50. LEVIN, SAMUEL, Synthetic Resins	July 4	July 7	2085
51. WILLNER, W. H., Radiant Energy; Modulators	Apr. 18	Apr. 17	3422
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 9	May 4	2729
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	Apr. 5	2632
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	Apr. 10	Apr. 12	2054
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 5	July 2	1520
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Apr. 20	Apr. 24	1541
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 12	Mar. 3	2285
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Oct. 22	Oct. 16	1056
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Mar. 13	Mar. 30	2009
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 19	May 10	1819
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 8	May 19	2129
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Feb. 14	Feb. 22	2848
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 3	Apr. 2	2093
64. NASH, P. M., Acetylene Gas Mixers; Compositions (part); Fuel	Nov. 15	Nov. 18	1222
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 2	Apr. 28	2185
Trade-Marks: RICHMOND, F. A.	Nov. 19	†Feb. 23	5988
Designs: KALUPY, H. H.	Oct. 17	†Feb. 4	5525

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Warp

No. 5,086. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 661; 69 USPQ 392]

1. Patentability—Laminated Material.
Certain claims in appellant's application relating to a transparent flexible laminated material *Held* unpatentable over the prior art.

2. Same—Same.
In connection with the citation of appellant's own patent against his appealed claim 22 *Held* that "the use of the particular coating material covered by appellant's cited patent should not be relied upon to lend patentability to the claim if other comparable claims which are not limited to such coating material are not allowable."

3. Same—Same.
"It seems too obvious to require lengthly discussion here that the mere fact that appellant has a monopoly on this material does not entitle him, for this reason alone, to have a patent upon the finished product upon which the material is used. His patented coating material was regarded as being new and useful in a patentable sense but it is our view, as it was that of the Board, that this fact alone does not impart patentability to appealed claim 22 which defines the article in the construction of which the material is used."

Appeal from the Patent Office. Affirmed.

Mr. Ernest A. Wegner for Warp.

Mr. W. W. Cochran for the Commissioner of Patents.

Bland, *J.*:

Appellant here appeals from a decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner who, after allowing one claim, rejected claims 18, 19, 21, 22, 23 and 24 of appellant's application relating to laminated material.

This appeal is a companion appeal with Patent Appeal No. 5,100, the applications involved in both appeals being co-pending in the Patent Office. The companion appeal related to substantially the identical material involved here except that there a wire mesh netting was used while in the instant application the mesh upon which the transparent material is formed consists of woven absorbent fabric netting.

[1][2][3] The rejection is based upon substantially the same ground and upon the same references as in the companion appeal, with the exception that in the instant appeal the reference of Warp's own patent, No. 2,141,575, issued December 27, 1938, was added.

Claim 24 is illustrative and reads:

> 24. A laminated material comprising a woven, large mesh, fabric netting of absorbent textile fibres forming the base lamina, an all-over, permanent coating of a plastic compound for the strands only of said netting, the meshes of the netting being left open, said coating being of sufficient thickness to bind the strands of the netting at their intersections and to form an anchoring base for an additional lamina, and a preformed sheet of transparent flexible material applied to each side of said netting and secured to said netting by an integrated bond with the coating on the strands of said netting and by an integrated bond with one another through the meshes of said netting throughout substantially the entire area of each mesh.

Segall's patent, No. 1,322,631, issued November 25, 1919, was cited for the purpose of showing that it was old to consolidate two sheets of preformed plastic through an intermediate layer of a woven fabric and to show that it was well understood that the consolidation of the material could alternatively be accomplished by heat (thermoplastic flow) or by softening by a solvent, or by a combination of both.

The Warp patent, which is that of appellant, was cited for the purpose of showing that the specific adhesive specified by claim 22 involved herein was that which the Warp patent covered. On this phase of the case the Board stated:

> Applicant has a patent on the composition used in claim 22 but the Warp patent does not suggest the specific article of the claim. However, we do not believe claim 22 distinguishes patentably over Jenkins merely because of the specific adhesive used especially where applicant has a patent on the adhesive.

We agree with the Board that the use of the particular coating material covered by appellant's cited patent should not be relied upon to lend patentability to the claim if other comparable claims which are not limited to such coating material are not allowable. Appellant's patent discloses and describes the same use of his coating material as that which is involved here. In fact, appellant does not here seem to insist with much confidence that the use of his particular patented material, as defined in claim 22, lends patentability to the claim any more than does the coating material of the other claims. It seems too obvious to require lengthy discussion here that the mere fact that appellant has a monopoly on this material does not entitle him, for this reason alone, to have a patent upon the finished product upon which the material is used. His patented coating material was regarded as being new and useful in a patentable sense but it is our view, as it was that of the Board, that this fact alone does not impart patentability to appealed claim 22 which defines the article in the construction of which the material is used.

Appellant here, as in the companion case, argues that the softening material of Jenkins was a solvent and that it would not be forced out by pressure at the wire crossings. The Board's holding on this question was the same as in the companion case.

While appellant in the instant case does not contend that the instant fabric material is used for a purpose differing from that of the wire mesh involved in the companion case, although it has many of the advantages that the material there involved possesses, the same facts in the instant case, irrespective of the basic material used, are relied upon to lend patentability to the claims and it is not seriously urged here that the use of woven fabric instead of wire lends patentability here if none existed there.

In view of our conclusion in the companion case, it would seem to be purposeless to here discuss substantially the same contentions that were there made. The two cases were orally argued together and appellant at no time asserted that if the claims in the companion case were not allowable those at bar, on account of the difference in the material used, should be allowed.

We think the Board properly affirmed the decision of the Examiner in rejecting the appealed claims and its decision so doing is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WARP

No. 5,100. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 658; 69 USPQ 389]

1. PATENTABILITY—INVENTION—COMMERCIAL SUCCESS.
"In close cases, commercial success, depending somewhat upon what brought it about, may be regarded as having weight on the question as to whether or not invention was involved in producing the thing for which patent application is made, but such success is rarely if ever regarded as a controlling factor and certainly should not be so regarded here."

2. SAME—SAME—LAMINATED MATERIAL.
Certain claims in appellant's application relating to a transparent flexible laminated material, which is a substitute for glass, *Held* properly rejected as unpatentable over the prior art since "appellant has not done anything more than that which might be expected from one skilled in the art when the problems involved were presented to him."

APPEAL from the Patent Office. Affirmed.

Mr. Ernest A. Wegner for Warp.

Mr. W. W. Cochran for the Commissioner of Patents.

BLAND, *J.*:

The Board of Appeals of the United States Patent Office affirmed the decision of the Primary Examiner rejecting claims 28 to 35, inclusive, of appellant's application for a patent relating to laminated flexible transparent material. Appellant has here appealed from the decision of the Board.

In this court appellant moved to dismiss his appeal as to claim 30, which motion is hereby granted.

Appellant's application discloses and claims a laminated transparent material which, as a substitute for glass, has numerous uses. It is constructed by first coating the wires of large mesh wire netting with a plastic material, preferably a polymerized vinyl compound, in such manner that the wires are completely coated and the meshes between the wires are left open, and then placing a preformed sheet of transparent flexible material on each side of said netting and securing the transparent sheets to each other and to the coated wires by means of pressure and heat, after coating the inner surfaces of the said transparent sheets with a solvent. Appellant emphasizes the importance of using a large mesh netting having wires of extremely small diameter the strands of which run not more than four meshes to the inch.

The preliminary coating of the wires with the vinyl compound is stated to serve several purposes. It serves as a binder for the wires at the intersections and as a cushion to prevent the wires from cutting through the preformed sheets when bent or when temperature changes cause expansion, and serves as an aid in bonding the two outside transparent sheets. It also insures complete and effective covering of the wires at the point of crossing by forming wedge-like protrusions on opposite sides of the wires in the plane of the finished material, and strengthens the sheets where they curve around the wires of the netting. The said protrusions are said to prevent formation of air spaces or air pockets at the wire crossings.

The laminated material thus produced is used extensively in greenhouses, hotbeds, poultry and livestock houses, sun porches, solariums, and storm windows and doors, and for some time prior to and during the last world war was very extensively used here and abroad in the construction of barracks and powder plants. While having much of the light-admitting qualities of glass it is flexible, not easily damaged in shipment or use, and has the quality of affording transmission of ultraviolet rays.

Claim 28, regarded as illustrative, reads as follows:

> 28. A laminated material comprising a woven, large mesh, flexible netting forming the base lamina, an all-over permanent coating of a transparent plastic compound for the strands only of said netting, the meshes of said netting being left open, said coating being of sufficient thickness to provide a cushion-like covering for the strands and a binder for the intersections of the strands to aid in holding the strands against displacement, a preformed sheet of transparent flexible material applied to each side of said netting and secured to said netting by an integrated bond with the coating on the strands of said netting and by an integrated bond with one another through the meshes of said netting throughout substantially the entire area of each mesh.

The rejection by the Examiner was upon the following references: Jenkins, 1,327,281, January 6, 1920; Segall, 1,322,631, November 25, 1919; Hopkinson, 1,777,309, October 7, 1930; Dreyfus, 1,950,662, March 13, 1934; Eichengrun, 1,985,771, December 25, 1934; Hosking, 2,028,670, January 21, 1936; Brush, 1,686,649, October 9, 1928; Waters, 2,109,558, March 1, 1938; Convert (French), 483,064, March 1, 1917.

In denying the appealed claims the Examiner relied chiefly upon what he regarded as the basic references, Dreyfus and Eichengrun. He referred to the Jenkins reference as showing wire mesh fabric having wide spaces between the wires to which is applied "lamina of transparent plastic by solvent applied to the wire mesh." He pointed out that Eichengrun refers to "wire cloth coated with transparent layers of cellulose derivatives" which might be made by "laminating the wire cloth with finished layers or films of the material," and that the Dreyfus patent discloses the application of a vinyl resin as a protective coating to the mesh fabric, which might either be of wire or a fibre material. Dreyfus then applies the cellulose derivative by dipping or brushing to the extent that the plastic fills the interstices and produces a "flexible glass substitute that is strong and resistant to weathering." Obviously the dipping or brushing results in filling the interstices between the wires only where the meshes are comparatively small.

Other references were cited by the Examiner to show lesser important details but they, for present purposes, need not be discussed here.

The element of claim 34 specifying that the strands of the wire mesh should have a diameter of approximately "one one-hundredth" of an inch and the limitation in some of the other claims relating to the size of the strands, although not mentioned by the Board, were properly stated by the Examiner to be "matters of degree." It would seem to be obvious to use small wires if a high degree of light-admitting quality was desired.

The Board seemed to regard Jenkins as the most pertinent reference. It said:

> It is our view that the Jenkins patent teaches all the essential details of the claims. We do not believe any one operating under the Jenkins patent should be prohibited from using a softener of such character that it could be referred to as a cushion of adhesive to bind the wires together at their outer sections. To adhere opposed transparent sheets to the wires and throughout the mesh area is an obvious matter.
>
> In view of the opinion of the Examiner on the effect of the commercial success of applicant's device we do not consider it necessary to remand the case for further consideration of the supplemental affidavit on commercial use. We agree with the Examiner that applicant has not made an inventive advance over Jenkins where several of the references show a solid mass of transparent material throughout the area of each mesh.

In this court appellant, in order to distinguish from the prior art in what he claims to be a patentable sense, relies largely upon the application of what he styles a comparatively heavy coating of his stated material on all of the surface of the wires of the netting. He states that his wire coating material remains permanently, somewhat yieldable and resiliently pliable, and serves the purposes hereinbefore stated, and that the coating of the cited reference, Jenkins, is intended to serve and does serve a different purpose from appellant's coating in that it is the patentee's means of placing a solvent on the inner sides of the outside laminations which will soften the same and have the tendency of filling up the spaces around the wires and causing the two sheets of laminated material to adhere together at points near the wire crossings but not elsewhere.

While Jenkins used his wire-coating solvent for the purpose of adhesively connecting the laminations together and to bind them tightly around the wires, he knew that the use of this material might affect the transparency of the article when completed. He therefore did not contemplate having the laminated layers in the wide spaces between the wire intersections adhere together. His teachings were to the effect that since he desired the highest degree of transparency it was essential to use that amount of solvent which was necessary to cause adhesion of the laminated sheets only at the points where the wires crossed.

It is argued here that the material used by Jenkins does not furnish a cushion and was not intended to do so and that since he preferred using as little as was practicable, because it would interfere with transparency, he has not taught the importance of so initially coating the wires with a transparent material which would form a cushion, strengthen the structure, completely fill the interstices around the wire crossings, and serve as a suitable basis upon which to superimpose the outside laminations.

Appellant urges that Jenkins' solvent would volatilize and disappear after it had served its purpose as a softener, and that such volatilization would result in leaving open spaces around the wires and thus cause irregularities and deformities at these places. He criticises the Board for having pointed out that in the Jenkins patent, in describing the solvent, the patentee used the phrase, "material adapted to soften and 'weld' Celluloid," and argues in effect that this language should not be regarded as suggesting any more than the use of a solvent or plasticizer which does not form a permanent, separate and distinct coating.

The Board reasoned that since Jenkins taught that his softening material injuriously affected transparency this would indicate that the solvent remained around the wire intersections and did not completely leave the structure by volatilization.

The Examiner, though putting it in the form of a quaere, was of the opinion evidently that it would not "involve inventive genius to prefer solidarity and continuity of lamination over optical perfection and to realize that preference by rejecting the precaution of Jenkins."

Appellant also argues that his coating material (which he does not urge is a new material in this phase of the art), when applied as he teaches, will, at the wire crossings, have a tendency to be pressed outwardly and thus form wedges between the outside laminations, and some of the claims are drawn to define this structure. It was the view of the tribunals of the Patent Office that wedges were formed in the identical manner in the Jenkins structure and that increasing this tendency as appellant proposes would not amount to invention.

While the Board held that the Jenkins patent teaches all the essential details of the appealed claims it also was of the view that one operating under the Jenkins patent should not be prohibited from using a softener of such character that it might have a cushion effect as well as serve as a binder over all of the wires of the netting.

Other cited references show all of the details of appellant's structure, such as large mesh netting, as in Hosking, and without discussing some of the references because of their character as above suggested, the Board concluded that in view of the prior art suggestions what appellant has produced as defined by the appealed claims does not amount to invention. We agree with this view of the Board for the reasons stated by it.

Appellant, at the proper time, submitted his affidavit which went into great detail with reference to the need for such an article as he had produced and pointed to the fact that such material could not be obtained on the market until after his product appeared. The affidavit makes a strong showing of

commercial success which was allegedly obtained with negligible advertising. A very large portion of the sales beginning in 1936 was to the Government for war emergency purposes. From 1936 up to the time of making the affidavit in May, 1944, owing in part to the scarcity of materials, his manufacturing company was unable to fill about 50 per cent of the orders. Appellant urges that the article described in the instant application, sold under the trade name of "Wyr-O-Glas" is recognized by the public as possessing new and valuable qualities.

[1] In close cases, commercial success, depending somewhat upon what brought it about, may be regarded as having weight on the question as to whether or not invention was involved in producing the thing for which patent application is made, but such success is rarely if ever regarded as a controlling factor and certainly should not be so regarded here.

[2] Unquestionably, appellant's Wyr-O-Glas, combining as it does several important features of the prior art, is a product of splendid quality and probably an improvement on the products made in accordance with the teachings of the prior art references, but we are not convinced that the tribunals of the Patent Office were in error in concluding that in view of the teachings of such art appellant has not done anything more than that which might be expected from one skilled in the art when the problems involved were presented to him.

The decision of the Board of Appeals which relates to the claims here involved is affirmed except as to claim 30, the appeal relating thereto being dismissed upon motion of appellant.

Affirmed.

U. S. Court of Customs and Patent Appeals

WHITTIER *v.* BORCHARDT

No. 5,076. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 522; 69 USPQ 382]

1. APPLICATION—DISCLOSURE—SUFFICIENCY OF DISCLOSURE—INOPERATIVENESS.

"The Board of Interference Examiners correctly stated in its decision 'that a disclosure in an application may be insufficient or inoperative to support one set of claims and may yet be sufficient or operative to support a different group of claims.'"

2. RES JUDICATA—SUFFICIENCY OF DISCLOSURE.

Where appellant was made senior party to the interference by virtue of an earlier application, but during the ex parte prosecution of that application all the claims had been finally rejected as being based on an insufficient disclosure, and that rejection was "predicated on the principle that the specification failed to teach a single specific embodiment so as to support any claims," *Held* that since "appellant failed to appeal from the Primary Examiner's final rejection of the claims in his earlier application * * * the Examiner's decision became final and conclusive as to the issue of the sufficiency of the disclosure in appellant's earlier filed application to support the claims therein as well as the more limited subject matter of the claims constituting the counts here in issue."

3. INTERFERENCE—CONSTRUCTIVE REDUCTION TO PRACTICE—SUFFICIENCY OF DISCLOSURE.

In view of the final determination, ex parte, as to the insufficiency of the disclosure of appellant's earlier application, appellant *Held* not entitled to the filing date thereof for conception and constructive reduction to practice of the invention involved in interference.

4. PRECEDENT.

Held that the decision in a case in which the doctrine of res judicata was neither presented nor discussed "has no application whatsoever to the issue of res judicata involved in this appeal."

5. INTERFERENCE—BURDEN OF PROOF—FINAL HEARING.

Rule 122 *Held* to authorize the Board of Interference Examiners to consider the issue of who carries the burden of proof and to reverse the decision of the Primary Examiner as to that issue and shift the burden of proof, notwithstanding the provisions of rule 124.

6. SAME—FINAL HEARING—RIGHT TO MAKE COUNTS—RULES 122 AND 230.

"It appears from the Board's decision that the principal argument presented by counsel for appellant relative to the insufficiency of appellee's disclosure to support the claims constituting the counts in issue was based upon appellee's showing of a so-called 'Tesla coil' in the drawings of his application. The Board stated, however, that that issue was not presented by appellant's motion to dissolve, and that, therefore, it was without authority to consider that argument of counsel. That the Board was right in so holding, is no longer an open question."

7. SAME—PRIORITY.

Priority of invention *Held* properly awarded to appellee.

APPEAL from the Patent Office. Affirmed.

Mr. Samuel E. Darby, Jr., Mr. Ralph M. Snyder and *Mr. William A. Snow* (*Mr. S. B. Michael* and *Messrs. Rummler, Rummler & Davis* of counsel) for Whittier.

Mr. Ralph Loring Dugger, Mr. Hiram M. Joslin and *Mr. Arthur R. Wylie* (*Mr. Anthony A. Juettner* of counsel) for Borchardt.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of the invention defined by the counts in issue (Nos. 1 to 3, inclusive) to appellee, Lester F. Borchardt.

The interference is between appellant's application No. 160,300, filed August 21, 1937, which is alleged to be a continuation-in-part of his application No. 711,539, filed February 16, 1934, and appellee's application No. 723,539, filed May 2, 1934.

The counts, which originated in appellee's application, read:

1. The process of treating an activatible substance to develop therein the anti-rachitic (vitamin D) property, which comprises heating and vaporizing said substance, and subjecting the same to solely a high frequency electrical discharge between spaced electrodes, while in the vapor state.

2. The process of treating an activatible substance to develop therein the anti-rachitic (vitamin D) property, which comprises heating and vaporizing said substance, and subjecting the same to solely an internal electrode discharge.

3. The process of treating an activatible substance to develop therein the anti-rachitic (vitamin D) property which comprises heating and vaporizing said substance, and subjecting the same to solely a high frequency high voltage internal electrode discharge.

At the time of the declaration of the interference, appellant was made the senior party by virtue of his earlier filed application of which his involved application is alleged to be a continuation-in-part.

During the motion period, appellant moved to dissolve the interference on the ground that appellee was not entitled to make the claims constituting the counts in issue for the reason that the heating coil in his application "would subject the contents of the tube to an electrodeless discharge of the general type disclosed in Milas Patent No. 2,117,100" in addition to the electrode discharge, and he, therefore, failed to disclose in his application either a method or apparatus whereby the activatible substance (ergosterol) is treated "solely" between spaced electrodes.

Appellee Borchardt moved to dissolve the interference as to count 1 on the ground that appellant was not entitled to make the claim constituting that count. He also moved to shift the burden of proof on the ground that appellant's earlier filed application No. 711,539 did not disclose the subject matter of the involved counts, and he, therefore, was not entitled to the filing date of his earlier application for conception and constructive reduction to practice of the invention in issue. Appellee further contended in his motion to shift the burden of proof that appellant's earlier filed application was finally rejected by the Primary Examiner; that no appeal was taken from that rejection; and that as appellant's involved application was filed subsequent to the final rejection, appellant is not entitled to the filing date of his earlier application "as to any subject matter whatsoever."

The Primary Examiner denied each of the motions to dissolve the interference, holding that each of the parties could make the claims constituting the counts in issue. The Examiner also denied appellee's motion to shift the burden of proof, holding that appellant's earlier filed application disclosed the involved invention. The Examiner did not, however, refer in his decision to that portion of appellee's motion in which it was claimed that as appellant failed to appeal from the final decision of the Primary Examiner in the prosecution of his earlier filed application, the decision of the Examiner in that case became final and conclusive and that appellant, therefore, was not entitled to the filing date of that application for conception and constructive reduction to practice of the involved invention.

As called for by the counts in issue, the invention relates to a process of treating an "activatible substance," such as ergosterol, "to develop therein the anti-rachitic (vitamin D) property," and comprises heating and vaporizing the substance and subjecting the vapor "to solely a high frequency electrical discharge between spaced electrodes," as stated in count 1, or, as stated in count 2, subjecting the vapor "to solely an internal electrode discharge," or, as stated in count 3, subjecting the vapor "to solely a high frequency high voltage internal electrode discharge."

Evidence was introduced by each of the parties on the issue of priority of invention.

In its decision, the Board of Interference Examiners called attention to the fact that appellee had moved to shift the burden of proof and that his motion had been denied by the Primary Examiner. The Board stated that "As permitted by the last sentence of rule 122," appellee "argues at final hearing the matter raised on his motion to shift the burden of proof."

In considering that issue, the Board called attention to the decision of the Primary Examiner of October 24, 1935, in the prosecution of appellant's earlier application, wherein it was stated that "All of the claims are rejected as based on insufficient disclosure since the single specific example of the current conditions fails to include other critical and relevant data such as pressures and electrode spacing. Mere application of the described current conditions to a pair of electrodes arranged at any distance from each other and under any low pressure conditions *is insufficient to define an operative example without necessitating further experiment.*" [Italics not quoted.] The Board also called attention to the fact that in the final rejection, dated March 26, 1937, of all of the claims in that application, the Primary Examiner stated:

Claims 20 to 25 are rejected as being based on insufficient disclosure for the same reasons as given previously for claims 6, 8 to 11, 15 to 19. Note Office action of October 24, 1935.

(It may be stated at this point that claims 20 to 25, referred to in the last quoted excerpt, were the only claims in appellant's earlier application at the time of the final rejection of that application, all of the other claims having been canceled by amendment prior to the Examiner's final rejection.)

The Board also called attention to the fact that no appeal was taken by appellant from the Primary Examiner's final rejection, but that on August 21, 1937, appellant filed his alleged continuation-in-part application here involved and thereafter abandoned his earlier application. The Board stated that appellee had directed its attention to the decision of this court in the case of *Lavin* v. *Pierotti*, 29 C. C. P. A. (Patents) 1235, 129 F.(2d) 883, 54 USPQ 400, 545 O. G. 6, wherein it was held that the final decision of the Primary Examiner in an ex parte prosecution from which no appeal was taken became final and conclusive not only against the applicant, but also against the Board of Appeals as to the issue decided, that is, the operativeness of the applicant's disclosure, and that in an interference proceeding the party against whom such a decision had been rendered was not entitled to the filing date of that application for conception and constructive reduction to practice of the subject matter involved in the interference.

Relative to that issue, the Board said:

It is recognized that a disclosure in an application may be insufficient or inoperative to support one set of claims and may yet be sufficient or operative to support a different group of claims. However, it appears that the rejections in the first Whittier application were predicated on the principle that the specification failed to teach a single specific embodiment so as to support any claims. For example, in the Office action of October 24, 1935, attention was directed to the failure to disclose pressure and electrode spacing, yet claim 15 did not mention pressure and none of the claims then under consideration specified

a pair of electrodes. Similarly, claims 20 to 25, which were finally rejected on March 26, 1937, did not specifically mention a pair of electrodes. It appears that Serial No. 711,539 [appellant's earlier filed application] was finally rejected as fatally defective in its disclosure and that matter has become res adjudicata because of the party Whittier's failure to appeal the rejection.

In so holding, the Board cited and relied upon our decision in the case of *Lavin* v. *Pierotti*, supra.

In answer to the argument presented by counsel for appellant that as the claims in appellant's earlier application were rejected on the ground of insufficiency of disclosure, the decision in the case *Lavin* v. *Pierotti*, supra, which related exclusively to the inoperativeness of the disclosure in the Pierotti application, was not controlling of the issues in the instant case, the Board said:

> The party Whittier correctly states that the *Lavin* v. *Pierotti* case concerns res adjudicata with respect to inoperativeness, but it appears that the principles there enunciated are equally applicable to res-adjudicata with respect to insufficiency of disclosure.

and, accordingly, held that appellant was not entitled to the filing date of his earlier application for constructive reduction to practice, and that as appellant's application involved in the interference was filed subsequent to appellee's involved application, the burden was upon appellant to establish priority of invention by a preponderance of the evidence.

It is argued here by counsel for appellant that the decision of this court in the case of *Lavin* v. *Pierotti*, supra, is not authority for holding that appellant is not entitled to the filing date of his earlier application for conception and constructive reduction to practice of the invention defined by the counts in issue, and that, although rule 122 of the Rules of Practice in the United States Patent Office provides that an issue raised on a motion to shift the burden of proof "may be reviewed at final hearing," the Board had no authority, after the evidence had been submitted, to shift the burden of proof and require appellant to establish priority of invention by a preponderance of the evidence.

It will be observed that the Primary Examiner rejected all of the claims in appellant's earlier application on the ground that they were based upon an insufficient disclosure, "since," as he stated, "the single specific example of the current conditions fails to include other critical and relevant data such as pressures and electrode spacing," and the "Mere application of the described current conditions to a pair of electrodes arranged at any distance from each other and under any low pressure conditions *is insufficient to define an operative example without necessitating further experiment*." [Italics ours.]

In the case of *Lavin* v. *Pierotti*, supra, all of the claims in Pierotti's earlier filed application had been rejected by the Primary Examiner on the ground that there was "not a sufficient disclosure [therein] to teach the public how to use the suction effect of an automobile engine to operatively drive a compressor." The basis for the final rejection in that case is not substantially different from that in the case at bar. We are of opinion that the principle applied in the Lavin case, supra, is applicable to the final rejection of the Primary Examiner in the ex parte prosecution of appellant's earlier filed application.

[1] The Board of Interference Examiners correctly stated in its decision "that a disclosure in an application may be insufficient or inoperative to support one set of claims and may yet be sufficient or operative to support a different group of claims." The Board further held, however, that "the rejections in the first Whittier application were predicated on the principle that the specification failed to teach a single specific embodiment so as to support any claims."

[2][3] Although counsel for appellant vigorously challenge the holding of the Board that the Primary Examiner's final rejection of all of the claims in appellant's earlier application is res judicata and argue that that application fully supports the claims constituting the counts here in issue, they do not contend that the Board was in error in holding that "the rejections in the first Whittier application were predicated on the principle that the specification failed to teach a single specific embodiment so as to support any claims."

We have given careful consideration to that holding of the Board and are of opinion that the Primary Examiner's final rejection of the claims in appellant's earlier application is open to no other reasonable construction.

Owing to the fact that appellant failed to appeal from the Primary Examiner's final rejection of the claims in his earlier application, we are of opinion that the Examiner's decision became final and conclusive as to the issue of the sufficiency of the disclosure in appellant's earlier filed application to support the claims therein as well as the more limited subject matter of the claims constituting the counts here in issue. Accordingly, appellant is not entitled to the filing date of his earlier application for conception and constructive reduction to practice of the involved invention. *In re Becker*, 22 C. C. P. A. (Patents) 843, 74 F.(2d) 306, 24 USPQ 120, 454 O. G. 789; *In re Ellis*, 24 C. C. P. A. (Patents) 759, 86 F.(2d) 412, 31 USPQ 380, 478 O. G. 478; *In re Parker et al.*, 26 C. C. P. A. (Patents) 1359, 104 F.(2d) 389, 42 USPQ 30, 508 O. G. 577; *Lavin* v. *Pierotti*, supra.

[4] At the time of the oral arguments in this court counsel for appellant referred to the decision of this court in the case of *Baker, Jr. and Mendius* v. *Alther*, 32 C. C. P. A. (Patents) 1047, 149 F.(2d) 942, 66 USPQ 41, 579 O. G. 3, and stated that it warranted a holding that appellant was entitled to the filing date of his earlier application for conception and constructive reduction to practice.

It is unnecessary that we here review the decision in that case. It is sufficient to say that the question of the application of the doctrine of res judicata to the final decision of the Primary Examiner rejecting appellee Alther's earlier filed application was neither presented nor discussed therein. Therefore, the decision in that case has no application whatsoever to the issue of res judicata involved in this appeal.

[5] It is contended here by counsel for appellant that as the Primary Examiner overruled appellee's motion to shift the burden of proof, his decision was final as to the order of proof and the burden thereof; that, in accordance with the provisions of rule 124 of the Rules of Practice in the United States Patent Office, the Primary Examiner's decision was not appealable; that, although rule 122, supra, provides that the "matter raised on a motion to shift the burden of proof may be reviewed at final hearing," it does not authorize the Board to consider *"the issue of who carries the burden of proof,"* or to reverse the Primary Examiner's decision as to that issue and shift the burden of proof. [Italics not quoted.]

Counsel for appellant state in their brief that as the burden was upon appellee during the submission of evidence to establish priority of invention by a preponderance of the evidence and as they were of opinion that appellee had failed to establish that he was possessed of the invention prior to the filing date of appellant's earlier application,

> * * * it was decided by counsel for [appellant] Whittier that elaborate presentation of Whittier's proofs was unwarranted. In consequence, Whittier's proofs were deliberately limited to certain factors of the subject matter of the interference, with particular reference to the bio assays with rats of the vitamin D produced by Whittier; the clinical results obtained by use of Whittier's "ERTRON"; and the extensive scientific and medical acceptance of Whittier's product made under the invention here involved.

It would seem to be quite clear that if the Board had authority to review at final hearing the issue raised by appellee's motion to shift the burden of proof in accordance with rule 122, supra, it had authority to decide that issue, otherwise the rule granting the Board authority to review such an issue is utterly meaningless. Furthermore, counsel for appellant were fully aware of the fact that the issue presented by the motion to shift the burden of proof might be considered by the Board at final hearing and were, therefore, forewarned that they should present such evidence as they possessed to establish that appellant was the prior inventor of the subject matter defined by the counts in issue. We are of opinion, therefore, that the Board not only had authority to consider and determine the issue raised by appellee's motion to shift the burden of proof, but that its decision in that regard is fully supported by the law and should be affirmed.

[6] The Board also considered the issue of appellee's right to make the claims constituting the counts in issue presented by appellant's motion to dissolve, and concurred in the views expressed by the Primary Examiner that appellee's disclosure was sufficient to support the claims constituting the counts in issue.

It appears from the Board's decision that the principal argument presented by counsel for appellant relative to the insufficiency of appellee's disclosure to support the claims constituting the counts in issue was based upon appellee's showing of a so-called "Tesla coil" in the drawings of his application. The Board stated, however, that that issue was not presented by appellant's motion to dissolve, and that, therefore, it was without authority to consider that argument of counsel. That the Board was right in so holding, is no longer an open question. See *Walter R. Anderson* v. *Jacob S. Walch* (Patent Appeal No. 5,061, decided January 7, 1946), 33 C. C. P. A. (Patents) —, — F.(2d) —, 68 USPQ 215, 584 O. G. 167, and cases therein cited.

The Board of Interference Examiners considered and analyzed in detail the evidence introduced by appellant for the purpose of establishing priority of invention, and held that appellant had failed to establish conception or reduction to practice of the invention defined by the counts in issue prior to the filing date of appellee's involved application and, accordingly, awarded priority of invention to appellee.

In view of the Board's detailed analysis of the evidence introduced by appellant, we deem it unnecessary to enter upon a discussion of it here. It is sufficient to say that we have carefully considered such evidence and are fully in accord with the Board's holding that appellant has failed to establish either conception of the invention defined by the counts in issue or reduction of it to practice prior to the filing date of appellee's involved application.

The Board also considered the evidence introduced by appellee and held that he had established conception of the subject matter of the involved counts on August 31, 1933, and reduction to practice of the subject matter of count 1 on September 26, 1933, but that he had failed to establish reduction to practice of the subject matter of counts 2 and 3 prior to the filing date of his involved application—May 2, 1934.

We have carefully reviewed the evidence introduced by appellee, which the Board held was sufficient to establish conception of the subject matter of the involved counts on August 31, 1933, and reduction to practice of the subject matter defined by count 1 on September 26, 1933.

We are in entire accord with the Board's holding that appellee established conception of the subject matter of all of the counts in issue on August 31, 1933, and that he reduced to practice the subject matter of count 1 on September 26, 1933. However, it is unnecessary to our decision that we pass upon the issue whether the evidence introduced by appellee is sufficient to warrant a holding that he reduced to practice the subject matter defined by counts 2 and 3 prior to the filing date of his involved application. Accordingly, we do not decide that question.

In view of the facts hereinbefore stated, the Board held that appellee was entitled to an award of priority of invention of the subject matter defined by the counts in issue.

Subsequent to the Board's decision, counsel for appellant filed a petition for rehearing wherein they reiterated many of the arguments originally presented and disposed of by the Board in its decision, and, in addition thereto, stated that appellant was

the senior party by reason of application No. 723,495, filed May 2, 1934, which eventuated into Patent No. 2,106,779, February 1, 1938, and application No. 723,496, filed May 2, 1934, which eventuated into Patent No. 2,106,780, February 1, 1938, each of which applications appellant called a continuation-in-part of the alleged parent application No. 711,539 (the application upon which appellant relies for conception and reduction to practice.) Although those applications are referred to in the patents as co-pending with application "Serial No. 711,539," neither of the patents indicate by any language therein that they are continuations-in-part of appellant's application No. 711,539.

Patent No. 2,106,779 states that it relates to improvements in the method of manufacture and apparatus described in appellant's "co-pending application Serial No. 711,539," and Patent No. 2,106,780 states that it is an improvement in the method described in appellant's "co-pending application Serial No. 711,539." Those patents, the applications for which were not introduced in evidence nor was notice given on the record that they would be relied upon for any purpose, were identified in the record as Exhibits W–5 and W–6, respectively. It does not appear that either of them were actually introduced in evidence. The most that appears from the record is that counsel for appellant requested that the notary public mark the patents for identification as Exhibits W–5 and W–6, respectively, and no notice was given on the record that either of them would be relied upon by appellant for any purpose.

Counsel for appellant further stated in their petition for rehearing that the Board erred in shifting the burden of proof and holding that appellant was the junior party, and that each of appellant's patents "amounts to a constructive reduction to practice by Whittier [appellant] 10 months prior to the date awarded to Borchardt [appellee] for reduction to practice of counts 2 and 3."

In reply to appellant's petition for rehearing, the Board stated that the motion to shift the burden of proof referred only to the disclosure in appellant's application No. 711,539; that neither of the applications (Nos. 723,495 and 723,496) was mentioned during the motion period; that a review by the Board of the decision of the Primary Examiner is limited to "the matter raised on a motion to shift the burden of proof"; that even though it be considered that applications Nos. 723,495 and 723,496 were properly introduced in evidence or that notice was given by appellant that he would rely on those applications at final hearing as evidence of conception and reduction to practice of the invention in issue, they would not establish that appellant was entitled to an award of priority of invention for the reason that, according to the patents issued thereon, they were filed May 2, 1934, the same day on which appellee filed his involved application; and that priority of invention could not be determined "solely on rival reductions to practice which took place on the same day." In support of the latter statement, the Board cited the case of *McParland* v. *Beall*, 45 App. D. C. 162, 231 O. G. 605, wherein, as correctly stated in the headnotes, it was held:

> Where both parties to an interference reduced to practice at the same time, the one first to conceive the invention must be regarded as the first inventor, irrespective of the question of diligence, as there is no junior or senior party, as it cannot be said that the one first to conceive is junior for the mere purpose of establishing lack of diligence on the part of the other.

The Board further stated that, in view of the fact that appellee was the first to conceive the invention defined by the counts in issue, he would be entitled to an award of priority, even though appellant was awarded the date of May 2, 1934, for conception and constructive reduction to practice.

[7] We are in accord with the views expressed by the Board of Interference Examiners, hereinbefore stated, and its decision awarding priority of invention of the subject matter defined by the counts in issue to appellee is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

NATIONAL NUGRAPE COMPANY

v.

JUDGE & DOLPH, LTD.

No. 5,092. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 521; 69 USPQ 388]

1. TRADE-MARKS—DOMINANT PORTION.
   "A descriptive word cannot constitute the dominant part of a mark."
2. SAME—DESCRIPTIVENESS.
   Held that the word "Grape" appearing in appellant's trade-mark "NuGrape" and appellee's trade-mark "So-Grape" is descriptive of the beverages of both parties and "by itself cannot indicate origin in any particular source."
3. SAME—CONFUSING SIMILARITY—"SO-GRAPE" AND "NU-GRAPE."
   "The prefixes 'So-' and 'Nu', while unlike in sound, meaning, if any, and appearance, as was held by the Commissioner, we think, considering both marks as a whole, are confusingly similar and therefore their concurrent use is likely to deceive purchasers."

APPEAL from the Patent Office. Reversed.

Messrs. Hirch, Smith, Kilpatrick, Clay & Cody, *Mr. Ernest P. Rogers* and *Mr. Thomas L. Mead, Jr.*, for National NuGrape Company.

Mr. Harry C. Alberts for Judge & Dolph, Ltd.

JACKSON, *J.*:

Appellant sought cancellation of the registration of appellee's Trade-Mark No. 395,289, dated May 19, 1942, for the mark "So-Grape" applied to nonalcoholic maltless beverages and concentrates, relying on its registered trade-mark "NuGrape," No. 164,168, dated February 13, 1923, used on nonalcoholic maltless beverages and sirups and extracts therefor.

The case was submitted on stipulation of the parties.

The Examiner of Interferences dismissed the petition, on the ground that he had not been persuaded that injury within the meaning of section 13 of the Trade-Mark Act of 1905 had been established.

Upon appeal, the Commissioner of Patents affirmed the decision of the Examiner, 62 USPQ 189, on the ground that the word "Grape" is descriptive of the goods of both parties and aside from that word no similarity existed between the marks as a whole in sound, appearance or meaning. The Commissioner pointed out that the dominating feature of a trade-mark cannot be a descriptive word, so that purchasers would look to the prefixes "So-" and "Nu" as indicating origin of the respective goods. From that decision, this appeal was taken.

Appellee's mark appears in two lines, the first syllable and the hyphen appearing above the word "Grape," which is disclaimed. The mark of appellant is a compound word "NuGrape" in a kind of heavy script, underscored with a line which bears the legend "A FLAVOR YOU CAN'T FORGET". The legend was disclaimed.

[1][2][3] There is no question that the goods possess the same descriptive properties and that the word "Grape" as applied to the goods is descriptive. It is established law that a descriptive word cannot constitute the dominant part of a mark. *American Brewing Company, Inc.*, v. *Delatour Beverage Corporation, etc.*, 26 C. C. P. A. (Patents) 778, 100 F.(2d) 253, 40 USPQ 173, 501 O. G. 293. Clearly the word "Grape" by itself cannot indicate origin in any particular source. The prefixes "So-" and "Nu," while unlike in sound, meaning, if any, and appearance, as was held by the Commissioner, we think, considering both marks as a whole, are confusingly similar and therefore their concurrent use is likely to deceive purchasers.

The decision of the Commissioner of Patents is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE DE REAMER

No. 5,102. Decided March 6, 1946

[154 F.(2d) 149; 69 USPQ 104]

PATENTABILITY—PACKING MATERIAL.
Certain claims to a packing material *Held* patentable over the prior art.

APPEAL from the Patent Office. Reversed.

Mr. William L. Edmonston and *Mr. Arthur Wm. Nelson* for De Reamer.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims Nos. 1 and 5 in appellant's application for a patent for an invention relating to a molded pulp pad "having rows of spaced apart cup-like substantially square receiving seats" thereon.

Claims numbered 4 and 7 in appellant's application were allowed by the Board of Appeals.

Claim 1 is illustrative of the appealed claims. It reads:

> 1. A packing material in the form of a cushion pad embodying therein a rectangular sheet-like body portion having rows of spaced apart substantially square cup-like egg receiving seats thereon, each of a relatively shallow inverted pyramidal shape and including four full counterpart sides which meet at the corners of the seat and slope downwardly and inwardly from their upper base ends toward the center of the seat where they coact to form the bottom thereof, the mid portion of each side of each seat constituting the egg end engageable area therefor.

The allowed claims contain limitations which are not included in the claims on appeal, and the Board was of opinion that those limitations warranted the allowance of those claims.

The reference is: Brigham et al., 2,168,317, August 8, 1939.

In appellant's structure, filler strips are spaced between upper and lower pads and separate the pad into the usual cells. Each of the cup-like egg supports or seats is substantially square and of a shallow inverted pyramidal shape, including, as stated in claim 1, "four full counterpart sides which meet at the corners of the seat and slope downwardly and inwardly from their upper base ends toward the center of the seat where they coact to form the bottom thereof, the mid portion of each side of each seat constituting the egg end engageable area therefor." It is the square cup-like receiving seat which is the material part of the claims in issue.

The reference patent relates to packing material to be used in packing eggs or other fragile articles, and it is stated in the patent that eggs are packed in layers in cases or crates; that each layer is supported by a sheet of material known as a "flat"; and that each egg in each layer is separated from other eggs in the layer by strips, referred to as "'fillers' or 'cell cases.'"

The patentees state:

> In our present invention, we arrange every alternate diagonal row of the individual egg supports of the flat of the Chaplin Patent No. 1,987,525 at right angles to the diagonal rows which are not re-arranged and thus produce through the sheet groups of four supports wherein two opposite supports have their major axis disposed in another diagonal direction of the sheet and at right angles to said first named pair.

The patentees were not attempting in their application to describe anything new in individual egg supports, but referred to the Chaplin Patent No. 1,987,525, issued January 8, 1935, as disclosing the individual egg supports. The patentees' invention relates to the manner in which the egg supports, disclosed in the Chaplin patent, are disposed on the pad, and, as argued by counsel for appellant, the claims of the reference patent call for "upstanding elongated article supports."

It is apparent from the drawings in the reference patent that the egg supports do not differ in any material degree from the structure shown in the Chaplin patent.

The patentee Chaplin states:

> My support consists in the main of a structural contouring which as here shown is diamond-shaped in appearance * * * but which may be otherwise shaped accordingly as the contours of the object to be packed may vary.

The patentee further states:

It will be observed that the supports fabricated in the sheet of wet laid fibre are not really diamond-shaped but consist essentially of two opposed oppositely angled structural formations.

The egg supports of the Chaplin patent are shallow and of inverted pyramidal shape, and have four sides which slope downwardly and inwardly toward the center of the seat. Two diametrically opposed corners in the patentee's structure have cut-out portions or notches, which cause the egg receiving seat to appear to be diamond-shape, and the patentee states that in addition to providing means for introducing air at the bottommost portion of the egg, the notches provide "a flexible or yielding section between the points" or edges of the walls immediately adjacent the notches so that when the points move outwardly the notches or slots open up, and when the points move inwardly the notches "automatically grow narrower."

Claim 2 of the Chaplin patent reads:

2. A support for a fragile object, comprising two oppositely disposed pairs of side walls, each pair flexibly connected with each other at one end, a flexible connection between the other ends of said walls for outward and inward movements of said other ends, and a cradle suspended between said side walls for raising and lowering movements accordingly as said side walls are moved outwardly or inwardly by the insertion of a large or a small object into said cradle.

In rejecting the appealed claims, the Primary Examiner stated that the reference patent disclosed a pad having "substantially square cup-like egg receiving seats thereon," each seat being "of a relatively shallow inverted pyramidal shape and including four sides * * * which slope downwardly and inwardly from their upper base ends toward the center of the seat"; that the reference patent does not disclose four full counterpart sides, as called for by the appealed claims; that each of the egg receiving seats in the patent supports "the egg in the same manner as the seat in applicant's device"; and that it required a mere change in shape to make the egg receiving seats "of smaller diameter thereby permitting the sides to be substantially 'full counterpart' as defined in these claims."

On appeal, the Board of Appeals in its original decision stated that appellant's egg receiving seats are of inverted pyramidal shape; that the arrangement of the egg receiving seats in the patent is somewhat different from that in appellant's structure; that in the reference patent the seats are pyramidal in shape "having straight sides but two of the opposite corners of said sides are incomplete by reason of the large inset spaces" or notches; and that in the patent the egg rests on, and is supported at, four points, although the egg receiving seats or depressions do not have full counterpart sides as in appellant's structure.

In that decision, the Board allowed claim 7 because of certain limitations contained therein, but affirmed the decision of the Examiner as to claims 1, 4, and 5.

Upon request for reconsideration of its decision, the Board stated that considerable stress had been placed on the alleged diamond-shape of the egg receiving seats of the reference patent; that a careful examination of the egg receiving seats in the reference patent "shows that they are square"; that in the patented structure, notches formed by eliminating two diametrically opposed corners give the egg receiving seats the appearance of being diamond-shape, "when they are actually square"; that "An egg positioned in such cavities [egg receiving seats] will be supported in exactly the same way as in appellant's cavities, that is, the sides of the pockets contact the egg tangentially"; and that, although the reference does not show four full counterpart sides in the egg receiving seats, that difference "does not affect the egg support."

The Board then allowed claim 4 because of certain limitations contained therein, but affirmed the Examiner's decision as to appealed claims 1 and 5.

Counsel for appellant here contend that the egg receiving seats disclosed in the reference and Chaplin patents are elongated in shape, and that each of the claims in the reference patent refer to them as being of that shape.

Although the Chaplin patent was not cited as a reference, it was incorporated in the record by appellant because of the fact that it is stated in the reference patent that the patentees' arrangement includes the egg receiving seats disclosed in the patent to Chaplin.

It will be recalled that the notches in the diametrically opposed corners of the egg receiving seats were supplied in the Chaplin patent so that air might be introduced at the bottommost portion of the eggs, and also to provide flexible or yielding sections or edges of the walls immediately adjacent the notches so as to accommodate either large or small objects; that when a large object is placed in the egg support, the edges adjacent the notches move outwardly causing the notches or slots to open up, and the bottom of the support to move upwardly "whereby effectively to bring the inclined surfaces of the cradle to meet the bottom of the large object and form an adequate area of support therefor"; and that when a small object is placed in the egg support, the edges adjacent the notches move inwardly and the notches "automatically grow narrower."

It appears from appellant's application that the egg receiving supports or seats are substantially square, having four full counterpart sides; that "downward endwise pressure on the egg will permit said sides to yield slightly to accommodate said pressure and this without permitting the seat to collapse because of the resistance offered by the strong angular structure formed at the corners of each pocket"; that because of the square shaped egg receiving seat, an egg may be placed therein with either end down; and that "no downward or inward rolling action can start at the ridges of the seats and therefore the seats cannot collapse. As the sides of the seats preclude any hard point contact engagement for the egg, the egg is not so easily broken and therefore the eggs and the packing material itself remain in a much better condition during shipment."

It is true, as argued by counsel for appellant, that appellant's seat construction is of "greater strength against distortion or axial crushing or collapse" than the patented structure; that his structure has a "plurality of accurately and uniformly spaced contact areas for the eggs so that the egg cannot so easily rock or tip out of position under impact against the side or the end of the case"; and that his structure provides for the circulation of air beneath the eggs "without the necessity of weakening the structure by notching as in the Brigham et al. reference."

Each of the tribunals of the Patent Office was of opinion that the egg receiving seats in the reference patent supports the egg in the same manner as in appellant's device.

We are not in agreement with that holding. We think it is apparent that the notches formed in the diametrically opposed corners of the walls in the patented structure form an egg receiving seat which, although supporting the egg at four points, permits the egg to rock or tip out of position, whereas with the four full counterpart sides, as in appellant's structure, the egg will be held firmly in position. Nor are we of opinion, in view of the notches formed in the diametrically opposed corners in the patented structure, that the egg receiving seat is actually square, as stated by the Board of Appeals.

The notches were designed in the Chaplin patent for the purpose of providing a flexible connection between the walls, as hereinbefore noted, and it was that feature which is claimed in the claims of the Chaplin patent. It is evident that the notches not only form a flexible connection between the walls, but also weaken the walls of the patented structure. Furthermore, the tribunals of the Patent Office permitted the patentees Brigham et al. to claim in each of the claims of their patent that the egg supporting seats were "upstanding elongated article supports." It is obvious, therefore, that at the time of the issuance of that patent, the tribunals of the Patent Office were not of opinion that the egg supporting seats which Brigham et al. borrowed from the Chaplin patent were actually square.

It is argued hereby the Solicitor for the Patent Office that even if it be true that the egg supporting seats in the reference patent are not square, "the change to the form of appellant's device was not a change in kind, but merely a change in degree and it is well settled that there is no invention in making such a change." In support of that argument, the Solicitor cites the case of *In re Paul F. Williams*, 17 C. C. P. A. (Patents) 718, 36 F.(2d) 436, 4 USPQ 237, 392 O. G. 737.

We think it is apparent from what has been said that appellant's structure and mode of operation are not the same as in the reference patent, and that his structure is not a mere carrying forward of the patentees' conception involving merely a "change of form, proportions, or degree, or the substitution of equivalents." On the contrary, it differs materially from the disclosure in the reference patent, and is not suggested thereby. Accordingly, the decision in the Williams case, supra, is not applicable to the issues here presented.

For the reasons stated, we are of opinion that the Board of Appeals erred in rejecting the appealed claims. Its decision is, therefore, reversed.

Reversed.

Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., May 31, 1946.*

Sebastian Contini Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Puritan Drug Company, 3719–23 North Fourteenth St., St. Louis, Mo., for registration of a trade-mark and trade-mark registered February 13, 1934, No. 310,066, to Sebastian Contini Co., 918 Kay Street, Sacramento, Calif., and the notice of such declaration sent by registered mail to said Sebastian Contini Co. at the said address of record having been returned by the post office as undeliverable, notice is hereby given that unless said Sebastian Contini Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., May 29, 1946.*

M. Sayle Taylor, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by William B. Dolph, Barr Building, Washington, D. C., to effect the cancellation of trade-mark registration of M. Sayle Taylor, 501 Madison Avenue, New York, N. Y., No. 342,914, dated February 2, 1937, and the notice of such proceeding sent by registered mail to the said Taylor at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Taylor, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., June 13, 1946.*

Bach Laboratories, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Anna-Jean Yuill, 1 North La Salle Street, Chicago, Ill., to effect the cancellation of trade-mark registration of Bach Laboratories, Inc., 68 Springfield Ave., Newark, N. J., No. 278,912, dated January 6, 1931, and the notice of such proceeding sent by registered mail to the said Bach Laboratories, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Bach Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimers

2,252,971.—*Morris E. Goldstein,* Denver, Colo. MINIATURE SADDLE. Patent dated Aug. 19, 1941. Disclaimer filed May 27, 1946, by the inventor.

Hereby enters this disclaimer to claim 1 in said patent.

2,326,766.—*Arthur H. Delareuelle,* United States Marine Corps, and *Harry Price,* United States Navy. RADIO BEAM TRAINING DEVICE. Patent dated Aug. 17, 1943. Disclaimer filed June 3, 1946, by the inventors.

Hereby enter this disclaimer to claims 1 and 2 in said specification.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,262,350. LIGHTING SYSTEM. Patented Nov. 11, 1941. A separate lighting circuit is provided for each side of motor vehicle. Should a defect occur in one circuit, the lights in the other circuit will continue to operate. A bar of insulating material connected to steering wheel is rotatably mounted within casing and has an L-shaped contact element at each end for engagement with contact plates connected to battery. Electrically operated accessories are in a circuit independent of the light circuits. (Owner) Howard D. Werts, 1156 Seventh St., La Salle, Ill. Groups 34—81; 36—19. Reg. No. 2,939.

Pat. 2,363,763. CLOCK. Patented Nov. 28, 1944. Illuminated electric clock having hour numerals in the form of neon tubes, each illuminated for fifty-nine minutes. Requires the use of minute hand only, which is in the form of an elongated electric light. (Owner) Howard D. Werts, 1156 Seventh St., La Salle, Ill. Groups 34—61; 36—21. Reg. No. 2,940.

Pat. 2,365,175. STRUCTURAL UNIT. Patented Dec. 19, 1944. Preformed metallic structural units may be assembled and bolted together to form beams, rafters, girders, stanchions and other structures, all of pentagonal form, in the erection of frameworks for portable buildings, bridges, etc. The units can be assembled so that the rafters are either horizontal or inclined and the stanchions either vertical or slanted, as desired. Variations in the dimensions of the framework may be effected by varying the number and size of standard or sub-standard units used in the construction of these members or by varying the size of the units used for the corner joints. (Owners) Redpath, Brown & Co., Ltd., % Williams, Bradbury & Hinkle, 2300 Board of Trade Bldg., La Salle St. & Jackson Blvd., Chicago 4, Ill. Group 33—81. Reg. No. 2,941.

Pat. 2,394,137. VERNIER HEIGHT GAUGE. Patented Feb. 5, 1946. An arrangement of vernier and linear measure scales whereon the indices of both scales face the operator for direct visual readings without recourse to turning the instrument aroond as in usual practice. (Owner) Carl N. Barlow, 232 South Union Place, Los Angeles 26, Calif. Group 35—43. Reg. No. 2,942.

Pat. 1,896,379. STERILIZING APPARATUS. Patented Feb. 7, 1933. Subjects water, milk, fruit juices or other liquids to the action of ultra-violet rays for sterilization purposes. Spaced quartz tubes extend downwardly into an elongated sterilizing chamber. An insulated cover has a continuous quartz tube (capable of generating sterilizing rays) U formations of which project into the chamber tubes. Liquid is introduced into the chamber through one end near the bottom and ci[illegible]s past the tubes. Permits a relatively large area of generating tube to be employed, and tubes of different lengths to regulate capacity of the apparatus. (Owner) Eleanor R. Case. Address correspondence to Willy Bruno Vorrath, 5727 Benner St., Los Angeles 42, Calif. Group 36—99. Reg. No. 2,943.

Pat. 2,396,648. DOOR OR WINDOW CONSTRUCTION. Patented Mar. 19, 1946. A panel mounted in door or window frame has stationary screens in ends with hinged closure panels attached to screens. Sash and screens remain the same at all seasons. When ventilation is desired, panels are open and when not desired, closure panels are used. (Owner) William L. Gould, 453 Western Ave., Albany, N. Y. Groups 24—31; 33—83. Reg. No. 2,944.

Pat. 2,396,739. COMBINATION BULLDOZER AND RIPPER. Patented Mar. 19, 1946. A number of spikes are used in conjunction with the bulldozer blade of a tractor to loosen hard packed ground. Two of the spikes are pivotally mounted on the frame carrying the blade, the remainder being pivotally attached to the inside of the blade. The spikes are operative upon rearward movement of the tractor, but drag along the ground during forward movement. Provision is made to hold spikes out of working position. (Owner) Halpin E. McCauley, Cliff, N. Mex. Group 35—21—22—31. Reg. No. 2,945.

Pat. 2,381,957. AIRPLANE BRAKE. Patented Aug. 14, 1945. Air brake flaps are mounted on the top and bottom of each wing surface or stabilizer (if desired) and gradually opened in unison to apply a braking force which slows up the movement of the plane when brakes are applied. Openings in flaps allow air to escape to eliminate sudden braking and prevent the plane from having any tendency to nose over when applying the air brakes. This gives the pilot full control of plane. The device folds compactly against the wing when not in use. (Owner) Frank Ibarra. Address correspondence to Munn, Liddy & Glaccum, 582 Market St., San Francisco 4, Calif. Group 37—21. Reg. No. 2,946.

Pat. 2,318,848. HAIR CLIPPER. Patented May 11, 1943. Drive shaft of motor within clipper handle is connected to a cross shaft in clipper head by means of a worm gear reduction. Cams on ends of cross shaft contact rollers on ends of a centrally pivoted rocker lever so as to operate a reciprocally movable blade. Casing may be made of plastic or metal. Inventor claims improved driving mechanism reduces wear to a minimum requiring little attention or replacement of parts. (Owner) Symon Z. Gibson, 1010½ East 45th St., Seattle 5, Wash. Groups 33—51; 39—91. Reg. No. 2,947.

Pat. 2,395,679. SUBMARINE DETECTING BUOY. Patented Feb. 26, 1946. A transmitter and receiver are housed within a number of buoys anchored along the shore for detecting the presence of enemy submarines. In accordance with the intensity of the sound received one of a number of perforated tapes is adapted to operate a transmitter so that a coded signal will be broadcast making it possible to spot the approximate position or direction of movement of enemy submarines. (Owner) Maurice F. Neuhof. Address correspondence to Armand E. Mestern, 565 Fifth Ave., New York, N. Y. Group 36—62. Reg. No. 2,948.

Pat. 1,944,567. ADJUSTABLE LENS HOLDER. Patented Jan. 23, 1934. Handle has loop-like finger piece at one end and a magnifying lens pivotally attached to opposite end so that lens may be swung to desired focusing position. Finger piece slips over any finger leaving first finger and thumb free to hold article. (Co-owner) Mrs. Ruth M. Biber, 1752 North Michigan Ave., Pasadena 6, Calif. Group 39—14. Reg. No. 2,949.

Pat. 2,395,919. AUXILIARY POWER PLANT FOR AIRPLANES. Patented Mar. 5, 1946. Power plants are set in wings of plane of the jet propelled type and utilize the exhaust gases of the motor driving the plane, the air pressure resulting from the operation of the motor as well as the vacuum resulting from the forward travel of the plane to create auxiliary power to obtain higher speed. The installations do not add measurably to the weight of the plane. (Owner) Albert T. Sundell, 735 Buckingham Place, Chicago 13, Ill. Group 37—21—22. Reg. No. 2,950.

Pat. 2,309,921. SWITCHING MECHANISM FOR MULTIPLE WAY ADAPTERS. Patented Feb. 2, 1943. Current may be supplied to any leg of a multiple lamp socket by working pull cord which rotates small disk inside lamp socket. Contact is selectively made by metallic ratchet formation on disk which closes circuit. May be adapted to any switching device. (Owner) George Raft, 15 Darley St., Darlinghurst, New South Wales, Australia. Group 36—19—21. Reg. No. 2,951.

Pat. 2,098,933. ROTATABLE INFORMATION FINDER. Patented Nov. 9, 1937. Two disks are riveted together, the wider disk serving as a base. Both disks are imprinted with information, the smaller disk being slotted so that on proper manipulation, the sought-for information may be seen through "window". As a radio program finder the disk is turned to day of week and hour of day (indexed on outer margin of base) enabling name of program on selected station to appear in slot. The finder may also be used to locate merchandise in department stores, or for other purposes. A modification offers an additional disk so that both sides of base may be used. (Owner) Chester A. Hathaway, 1133 Tenth St., Santa Monica, Calif. Groups 27—34—89; 33—61. Reg. No. 2,952.

Pat. 2,362,481. ELECTRICAL EXTENSION. Patented Nov. 14, 1944. Wall fixture consists of a length of wiring encased within tubing and provided with male and female plugs connected to usual electric outlet. Eliminates the necessity of moving furniture placed against wall to allow appliances such as lamps or the like to be plugged in or disconnected. (Owner) Henry Hartmann, 2901 North Racine Ave., Chicago, Ill. Group 36—11—21—31. Reg. No. 2,953.

Pat. 2,183,095. COMPARING DEVICE. Patented Dec. 12, 1939. Device is intended to aid proof readers who must perform task individually. Consists of a combination of a slidable carriage on which sheet being "proofed" is placed over a base on which sheet being compared is mounted. Eyestrain is considerably reduced in that only one line is visible, the carriage being shifted as lines are read. Adjustable to sheets of various sizes. (Owner) Samuel H. Fleming, 3418 24th St., N. E., Washington, D. C. Groups 27; 35—55. Reg. No. 2,954.

Pat. 2,336,604. DETACHABLE CANTILEVER BRACKET STRUCTURE. Patented Dec. 14, 1943. Pressed metal units comprise a hollow post and brackets. The post has an open front, the flanges of which are notched to receive the bracket arms. Upturned tongue fits into slot on rear face of post, being firmly held by a downwardly extending tongue. The post may be fixed to or incorporated in wall, the adjustable brackets being arranged in tiers so that horizontal rows may support shelving, cable or lengths of pipe. (Owners) Walter G. Edward and George M. Frost. Address correspondence to J. J. Kock, % Consulate General of South Africa, 500 Fifth Ave., New York, N. Y. Groups 25—41; 33—73. Reg. No. 2,955.

Pat. 2,395,762. PADLOCK. Patented Feb. 26, 1946. Water-proof padlock has arms of the shackle (which spans the top) entering opposite sides of the casing below the top instead of through the top. When shackle is released by key it may be pressed downwardly and rotated for engagement with object to be locked. Internal mechanism is rendered water-proof by provision of rubber, cup-like shields inside the casing which embrace the arms, these shields being cemented or otherwise secured to sides of casing. Key slot may be covered and sealed by a slide or rubber suction-cup. Another feature is a specially designed key and lock mechanism. (Owner) Anton Rober, 2424 West Center St., Milwaukee 6, Wis. Group 33—59. Reg. No. 2,956.

Pat. 2,158,258. HEATING DEVICE. Patented May 16, 1939. Heater is inserted in dashboard of automobile. Core units are arranged in heater shell so that fan discharges air through units into body of vehicle. Design of blades permits fan to be used for both the intake and discharge of air, the incoming air cooling the motor and at the same time is warmed by the heater shell. (Co-owner) Chester J. Sucharski, 1114 Milwaukee Ave., South Milwaukee, Wis. Group 38—31. Reg. No. 2,957.

Pat. 2,028,298. RADIATOR. Patented Jan. 21, 1936. Core unit for radiators comprising a plurality of interfitting rings stamped from light sheet metal. Rings connected with heat absorbing flanges on outer faces and heat dissipating fins on inner faces. Fins are arranged in staggered relation to form an indirect passage for air through core, insuring rapid transmission of heat. (Co-owner) Chester J. Sucharski, 1114 Milwaukee Ave., South Milwaukee, Wis. Group 33—65. Reg. No. 2,958.

Pat. 2,173,329. DISPLAY APPARATUS. Patented Sept. 19, 1939. Objects in a store window or display room are illuminated in consecutive order by a reflector type device having a series of electric lamps housed within. A moving frame displays signs in consecutive order, while current shifts from one searchlight to next in series focusing light on object relating to sign. (Owner) Robert H. Geiser. Address correspondence to A. Yates Dowell, 1158 Munsey Bldg., Washington 4, D. C. Groups 34—81; 39—93. Reg. No. 2,959.

Pat. 2,396,943. MEASURING SPOON. Patented Mar. 19, 1946. Spoon for accurately measuring various fractions of a teaspoon or tablespoonfull of pulverized, powdered or granulated material. Size of spoon regulated by adjusting plate in handle and operated by a thumb pressure lever. An inclined plate slides on bowl and levels contents. May be used in kitchen or laboratory. (Owner) Louis Frank, P. O. Box 142, Fellows, Calif. Groups 26—94; 33—73; 34—41. Reg. No. 2,960.

Pat. 2,393,764. ADJUSTABLE NUT. Patented Jan. 29, 1946. Threadless, adjustable nut with a plurality of radially movable thread-engaging spring pressed dogs. Adjustable by a graduated scale so one nut is used in place of various sized conventional nuts having threaded openings. (Owner) Louis Frank, P. O. Box 142, Fellows, Calif. Group 33—12—91. Reg. No. 2,961.

Pat. 2,387,436. WIRE OR ROD CONNECTOR AND CLAMP. Patented Oct. 23, 1945. Connector and clamp for rods, wires, cables or chains, eliminates use of screws, bolts, binding posts and the like. Housing has gripping and clamping blocks which automatically engage and clamp inserted rods. A coil spring swings blocks downwardly into engagement with cables inserted through openings into connector. (Owners) Louis Frank and Adolph Reader. Address correspondence to Louis Frank, P. O. Box 142, Fellows, Calif. Groups 33—59; 36—11. Reg. No. 2,962.

Pat. 2,167,631. ELECTRIC TRAFFIC SIGNAL. Patented Aug. 1, 1939. Instead of the usual lights this traffic signal unit comprises rows of neon tubing of contrasting colors arranged at right angles to each other. Lights are successively illuminated and extinguished at timed intervals. (Co-owner) E. N. Mimms, 1013 East Broadway, Louisville 4, Ky. Group 36—62. Reg. No. 2,963.

Pat. 1,919,180. ARTICLE, METHOD AND MACHINE FOR MANUFACTURE. Patented July 18, 1933. Polishing pads which will not scratch or cut surfaces of article being polished are made on machine covered by patent. An abrasive such as jewelers' rouge or chalk is beaten into a large mass of kapok or cotton fiber, heated to a temperature of between 100°–200° C. and compacted and later cut to desired size. (Owner) Bank of America National Trust and Savings Association. Address correspondence to Harry C. Schroeder, Central Bank Bldg., Oakland, Calif. Groups 32—91; 35—59. Reg. No. 2,964.

Pat. 2,394,109. COOLING APPARATUS. Patented Feb. 5, 1946. Fan to circulate air past the cooling apparatus of an air conditioning system is driven by the refrigerant as it passes through the refrigerating cycle instead of by a motor which would introduce additional heat to be absorbed by the system. Various modifications are shown one in which the liquid refrigerant from condenser is led to an inlet to be discharged through a nozzle against cups formed on impeller wheel, the impact causing the wheel to turn. (Owner) Andrew Sanchez, 2183 Amsterdam Ave., New York, N. Y. Group 35—84. Reg. No. 2,965.

Pat. 2,397,770. WRENCH. Patented Apr. 2, 1946. Pipe wrench type, with round headed upper jaw. Adjustment for size or holding tension is secured through operation of a pivoted lever in connection with ratchet formed on upper edge of fixed jaw member. (Owner) John Bierman, 1027 Franklin St., Keokuk, Iowa. Group 33—52. Reg. No. 2,966.

Pat. 2,389,269. SURGICAL FIXTURE. Patented Nov. 20, 1945. Group 39—15—16. Reg. No. 2,967.

Pat. 2,386,134. SURGICAL FIXTURE. Patented Oct. 2, 1945. Group 39—15—16. Reg. No. 2,968.

These two patents show a portable adjustable fixture for use as an accessory to properly position and hold head, neck and shoulders of a patient during a nasal or throat operation. Pat. 2,389,269 shows a metal frame having a curved padded top with shoulder supporting portion hinged to provide vertical adjustment. A chin strap holds patient's mouth open. Pat. 2,386,134 has three separate supports independently adjustable for both vertical and longitudinal adjustment. Two adjustable discs are provided for engaging temples to prevent shifting of patient's head. (Owner) William L. Mermis, 1597 Mahoning Ave., Youngstown 9, Ohio.

Des. 141,168. DESIGN FOR A COMBINED SHOULDER AND HEAD REST FOR THROAT OPERATIONS OR THE LIKE. Patented May 8, 1945. Shows a curved member with a chin engaging strap for holding patient's mouth open. (Owner) William L. Mermis, 1597 Mahoning Ave., Youngstown 9, Ohio. Group 39—15—16. Reg. No. 2,969.

Pat. 2,319,147. AUXILIARY HANDLE. Patented May 11, 1943. Groups 25—99; 33—73; 39—81. Reg. No. 2,970.

Pat. 2,398,436. SELF-LOCKING, IDENTICAL HALF HANDLE STRUCTURE. Patented Apr. 16, 1946. Groups 25—99; 33—73; 39—81. Reg. No. 2,971.

Re. Pat. 22,749. (Original Pat. 2,371,639.) LOCKING SECTIONAL HANDLE. Patented Apr. 30, 1946. Groups 25—99; 33—73; 39—81. Reg. No. 2,972.

These three patents relate to a handle split into halves, the faces of which have a matching tongue or groove on each side of a central groove. Pat. 2,319,147 particularly pertains to a solid handle; Pat. 2,398,436 to a hollow embodiment, the locking portion being confined to metal bands or cupped ends. Reissue 22,749 simplifies the fabrication of an extruded plastic handle. May also be made of wood, metal or any suitable material cut to suitable lengths and rendered permanent by gluing the sections. Used to replace broken or burned handles of tea kettles, coffee pots, tools, thermos jugs, etc. May also be used as handles for carrying packages in which case the same handle may be used repeatedly. (Owner) Ernest J. Mason, 411 Glass Block, Marion, Ind.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 2, 1946

[VOL. 588. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 492,427. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 30, 1945.

CELCON

FOR SHEETS, FILMS, FOILS, RODS, TUBES, POWDERS, CHIPS, SLABS, BLANKS AND THE LIKE, CAPABLE OF BEING MOLDED UNDER HEAT AND/OR PRESSURE OR OTHERWISE FABRICATED AND MADE IN WHOLE OR IN PART OF A CELLULOSIC PLASTIC.
Claims use since Nov. 24, 1945.

CLASS 2

RECEPTACLES

Ser. No. 496,220. FREYDBERG BROS.-STRAUSS, INC., New York, N. Y. Filed Feb. 8, 1946.

CELLOTRON

FOR PRESSURE ADHESIVE TAPE DISPENSERS.
Claims use since Dec. 12, 1945.

Ser. No. 496,231. FREYDBERG BROS.-STRAUSS, INC., New York, N. Y. Filed Feb. 8, 1946.

CELLOMAT

FOR PRESSURE ADHESIVE TAPE DISPENSERS.
Claims use since Dec. 12, 1945.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 483,710. ZEIDMAN AND LIEBERSTEIN, Brooklyn, N. Y. Filed May 23, 1945.

PLAZEX

FOR POWDER CLEANING COMPOUND FOR CLEANING COMBS AND BRUSHES.
Claims use since Apr. 16, 1945.

Ser. No. 487,230. VICTORY SOAP & CHEMICAL CO., INC., New York, N. Y. Filed Aug. 17, 1945.



FOR CHEMICAL CLEANING PREPARATION FOR REMOVING SYNTHETIC RUBBER MARKS FROM ALL TYPES OF FLOORING, SUCH AS HARDWOOD, PARQUET, LINOLEUM, TILE, ASPHALT, MARBLE, AND GRANITE; ALSO FOR REMOVING ALL TYPES OF WAX AND SCUFF MARKS FROM FLOORS.
Claims use since Jan. 2, 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 476,897. JAMIL AKHTAR, doing business as Taj Perfume Company, Detroit, Mich. Filed Nov. 27, 1944.



HINDU
BLESSING

The word "Hindu" is disclaimed apart from the mark.
FOR INCENSE.
Claims use since January 1944.

Ser. No. 480,735. BRISTOL-MYERS COMPANY, New York, N. Y. Filed Mar. 10, 1945.

SENTRY

FOR PREPARATION FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP.
Claims use since Nov. 1, 1944.

Ser. No. 481,210. CHEPLIN LABORATORIES INC., Syracuse, N. Y., now by change of name to Bristol Laboratories Inc. Filed Mar. 23, 1945.

NAFEDROSE

FOR NOSE DROPS.
Claims use since Jan. 13, 1938.

Ser. No. 482,155. FEBOE PERFUMERS, New York, N. Y. Filed Apr. 14, 1945.

Feboe

FOR COSMETICS—NAMELY, FACE CREAM, FACE POWDER, ROUGE, AND LIPSTICK.
Claims use since Jan. 10, 1945.

Ser. No. 483,406. IRVING WORTHMAN, Brooklyn, N. Y. Filed May 15, 1945.

Kis-n-make-up

The word "make-up" is disclaimed when used apart from the mark. The drawing is lined for shading only.
FOR TOILET WATERS, COLOGNES, PERFUMES, SACHET POWDERS, FACE AND BODY POWDERS, TALCUM POWDERS, FACE, HAND, AND BODY LOTIONS AND CREAMS, COLD CREAM, LIPSTICKS, EYEBROW PENCILS, AND ROUGE.
Claims use since Mar. 1, 1945.

Ser. No. 484,890. AUGUST H. GISONDI, doing business as G and G Super Foot Remedy, Schenectady, N. Y. Filed June 22, 1945.

SUPER G & G FOOT REMEDY

Applicant disclaims the use of the words "Super Foot-Remedy" apart from the mark.
FOR PREPARATION FOR TREATING TENDER, TIRED, BURNING, ACHING, SWOLLEN, AND PERSPIRING FEET.
Claims use since Apr. 2, 1945.

Ser. No. 489,483. PARFUMS NATTIER SOCIETE ANONYME, Paris, France. Filed Oct. 5, 1945.

OISEAU DE FEU

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS.
Claims use since October 1944.

Ser. No. 489,598. NEILSON CHEMICAL COMPANY, Detroit, Mich. Filed Oct. 8, 1945.

Alumiprep

FOR PREPARATION COMPRISING WATER, PHOSPHORIC ACID AND A SODIUM SECONDARY ALCOHOL SULPHATE FOR CAUSING FORMATION OF A WATER INSOLUBLE COATING ON FERROUS METALS AND USED FOR PREPARING ALUMINUM ALLOYS FOR WELDING AND PAINTING.
Claims use since October 1944.

Ser. No. 489,600. NEILSON CHEMICAL COMPANY, Detroit, Mich. Filed Oct. 8, 1945.

SHERBOND

FOR CHEMICAL PREPARATION FOR CLEANING AND PREPARING METAL SURFACES FOR PAINTING.
Claims use since September 1943.

Ser. No. 489,703. ARISTOCRAT LEATHER PRODUCTS, INC., New York, N. Y. Filed Oct. 10, 1945.

Aristocrat
FIFTH AVENUE

FOR COMPACTS OF FACE POWDER, ROUGE, LIPSTICKS, FACE CREAMS, EYEBROW PENCILS, PERFUMES, HAND LOTIONS, FINGER NAIL POLISH, DENTAL CREAM, PERSPIRATION DEODORANTS, SKIN SALVES, MEDICATED INHALANTS, TOOTHACHE DROPS, AND TOILET WATER.
Claims use since 1927.

Ser. No. 490,156. LOUEY VENN OF LONDON, INC., Washington, D. C. Filed Oct. 18, 1945.



No claim is made to any of the wording or notations except "Liaison" or to the outline representation of a label apart from the mark.
FOR EAU DE COLOGNE.
Claims use since Oct. 16, 1945.

Ser. No. 490,157. LOUEY VENN OF LONDON, INC., Washington, D. C. Filed Oct. 18, 1945.



No claim is made to any of the written matter except "Time and Tide" or to the outline representation of a label apart from the mark.
FOR TOILET WATER.
Claims use since Oct. 16, 1945.

Ser. No. 491,177. EBENEZER FRANK THOMPSON, Titusville, Pa. Filed Nov. 6, 1945.

THOMPSON'S
BOR-SOMA

No claim is made to the use of the name "Thompson's" apart from the mark.
FOR MEDICINAL PREPARATION IN TABLET AND LIQUID FORM FOR USE AS A DIURETIC TO THE KIDNEYS.
Claims use since 1935.

Ser. No. 491,849. LANCOME S. A., Paris, France. Filed Nov. 19, 1945.

FLECHES

FOR PERFUMES AND ROUGES.
Claims use since Aug. 12, 1938.

Ser. No. 492,146. LANSELLE PARFUMEUR (S. A. R. L.), Paris, France. Filed Nov. 24, 1945.

MARTINGALE

FOR PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAM.
Claims use since Sept. 19, 1941.

Ser. No. 493,224. EDWIN M. SAYERS, Harrisburg, Pa. Filed Dec. 13, 1945.

HEATRON

FOR HEAT EXCHANGE UNITS CONSISTING OF SMALL METAL CYLINDERS CONTAINING A HEAT GENERATING CHEMICAL COMPOUND CAPABLE OF EVOLVING HEAT WHEN IGNITED.
Claims use since Nov. 7, 1945.

Ser. No. 493,631. E. R. SQUIBB & SONS, New York, N. Y. Filed Dec. 20, 1945.

DESPACILINA

FOR ANTIBACTERIAL PREPARATIONS.
Claims use since Dec. 7, 1945.

Ser. No. 493,724. BAILEY, PRIHODA & COMPANY, Kalamazoo, Mich. Filed Dec. 22, 1945.

ALWAYS 29

FOR ESTROGENIC HORMONE SKIN CREAM.
Claims use since Mar. 1, 1945.

Ser. No. 493,880. BELMONT FORMULAS, INC., Tampa, Fla. Filed Dec. 26, 1945.

BELMONT FORMULA NO. 7

BF-7

No claim is made to the words "Belmont Formula" apart from the mark.

FOR POWDER FOR USE IN THE TREATMENT OF ATHLETE'S FOOT, HEAT RASH, AND OTHER IRRITATIONS OF THE SKIN DUE TO MOISTURE.

Claims use since Aug. 28, 1945.

Ser. No. 494,306. CHICAGO COPPER & CHEMICAL COMPANY, Blue Island, Ill. Filed Jan. 5, 1945.

ANTI GYP

FOR CHEMICAL COMPOUND FOR USE IN THE TREATMENT OF OIL WELL DRILLING MUDS.

Claims use since Nov. 8, 1945.

Ser. No. 494,559. INTERNATIONAL PHARMACEUTICAL CORPORATION, Boston, Mass. Filed Jan. 10, 1946.

thenardol

FOR ANTISEPTIC SOLUTION.

Claims use since Nov. 28, 1945.

Ser. No. 495,171. EDITH IMBL AND COMPANY, New York, N. Y. Filed Jan. 22, 1946.

The Little Cosmetician

FOR PROTECTIVE FACIAL CREAM.

Claims use since Aug. 1, 1945.

Ser. No. 495,867. THE COWLES DETERGENT COMPANY, Cleveland, Ohio. Filed Feb. 2, 1946.

CHLORESCO

FOR CALCIUM HYPOCHLORITE.

Claims use since Jan. 2, 1946.

Ser. No. 495,988. PURITAN CHEMICAL COMPANY, Atlanta, Ga. Filed Feb. 4, 1946.

Sanitator

FOR CHEMICAL PREPARATION FOR ABSORBING DISAGREEABLE ODORS.

Claims use since May 5, 1945.

Ser. No. 496,155. PUROCAINE, INC., Philadelphia, Pa. Filed Feb. 7, 1946.

PEPTAMINO

FOR AMINO ACIDS AND AMINO ACID MIXTURES USED MEDICINALLY AND NUTRITIONALLY AS A SUPPLEMENT TO OR SUBSTITUTE FOR PROTEINS IN FOOD.

Claims use since Feb. 1, 1946.

Ser. No. 496,156. PUROCAINE, INC., Philadelphia, Pa. Filed Feb. 7, 1946.

POLAMINO

FOR AMINO ACIDS AND AMINO ACID MIXTURES USED MEDICINALLY AND NUTRITIONALLY AS A SUPPLEMENT TO OR SUBSTITUTE FOR PROTEINS IN FOOD.

Claims use since Feb. 1, 1946.

Ser. No. 496,157. PUROCAINE, INC., Philadelphia, Pa. Filed Feb. 7, 1946.

PANAMINO

FOR AMINO ACIDS AND AMINO ACID MIXTURES USED MEDICINALLY AND NUTRITIONALLY AS A SUPPLEMENT TO OR SUBSTITUTE FOR PROTEINS IN FOOD.

Claims use since Feb. 1, 1946.

Ser. No. 496,159. PUROCAINE, INC., Philadelphia, Pa. Filed Feb. 7, 1946.

DECAMINO

FOR AMINO ACIDS AND AMINO ACID MIXTURES USED MEDICINALLY AND NUTRITIONALLY AS A SUPPLEMENT TO OR SUBSTITUTE FOR PROTEINS IN FOOD.

Claims use since Feb. 1, 1946.

Ser. No. 496,238. B. HELLER & COMPANY, Chicago, Ill. Filed Feb. 8, 1946.



The lining on the drawing indicates the color red.

FOR INSECTICIDE PREPARATION FOR REPELLING AND KILLING FLIES, MOSQUITOES, MOTHS, ROACHES, BEDBUGS, AND MANY OTHER HOUSEHOLD INSECTS.

Claims use since Feb. 1, 1946.

Ser. No. 496,257. R. J. MORAN CO., Boston, Mass. Filed Feb. 8, 1946.

FORTEPLEX

FOR VITAMIN TONIC.

Claims use since Dec. 6, 1943.

Ser. No. 496,286. TOM UNG, doing business as United China Trading Company, Los Angeles, Calif. Filed Feb. 8, 1946.



FOR HAIR OIL, HAIR POMADE, HAIR TONIC, AFTER-SHAVE LOTION, COLD CREAM, HAND LOTION, AND TOILET WATER.

Claims use since Oct. 30, 1945.

Ser. No. 496,293. ABBOTT LABORATORIES, North Chicago, Ill. Filed Feb. 9, 1946.

Dicaldimin

FOR NUTRITIVE PREPARATIONS CONTAINING VITAMINS AND MINERALS.

Claims use since Jan. 25, 1946.

Ser. No. 496,312. IRRESISTIBLE, INC., New York, N. Y. Filed Feb. 9, 1946.

Wonderlip

FOR LIPSTICKS.

Claims use since Jan. 2, 1946.

Ser. No. 496,643. LENTHERIC, INCORPORATED, New York, N. Y. Filed Feb. 15, 1946.

FORMIDABLE

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.

Claims use since Jan. 23, 1946.

Ser. No. 496,644. LENTHERIC, INCORPORATED, New York, N. Y. Filed Feb. 15, 1946.

RAMPANT

FOR PERFUMES, TOILET WATERS, AND COSMETIC CREAMS.

Claims use since Jan. 23, 1946.

Ser. No. 496,915. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Feb. 19, 1946.

ENTOSPRAY

FOR DDT CONCENTRATE SOLUTION.

Claims use since Jan. 21, 1946.

Ser. No. 496,916. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Feb. 19, 1946.

OPTIZINE

FOR SULFADIAZINE-DESOXYEPHEDRINE EYE-DROP PREPARATION.

Claims use since Feb. 21, 1945.

Ser. No. 496,956. GENERAL BIOCHEMICALS, INC., Chagrin Falls, Ohio. Filed Feb. 20, 1946.

GBI

FOR ALPHA TOCOPHEROL, CAROTENE, INOSITOL, LYSINE MONOHYDROCHLORIDE, METHIONINE, PYRIDOXINE HYDROCHLORIDE, RIBOFLAVIN, THREONINE, TRYPTOPHANE, VITAMIN TEST CASEIN, VITAMIN FREE CASEIN HYDROLYSATE.
Claims use since Nov. 17, 1944.

Ser. No. 496,983. RICH LABORATORIES, INC., Lebanon, Pa. Filed Feb. 20, 1946.

RICHAR

FOR CAPSULES CONTAINING ACTIVATED CHARCOAL.
Claims use since Jan. 7, 1946.

Ser. No. 497,143. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Feb. 23, 1946.

Camolliens

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF SKIN CONDITIONS.
Claims use since Jan. 31, 1946.

Ser. No. 497,255. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Feb. 26, 1946.

LICRA-DIAZINE

Applicant makes no claim to the term "Diazine" apart from the mark.
FOR SUSPENSION OF SULFADIAZINE.
Claims use since Jan. 21, 1946.

Ser. No. 497,684. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Mar. 5, 1946.

UNIPEROX

FOR ORGANIC HYDROPEROXIDES.
Claims use since June 14, 1945.

Ser. No. 499,028. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed Mar. 26, 1946.

BEROID

FOR CAPSULES CONTAINING A MIXTURE OF THYROID AND THIAMIN.
Claims use since Mar. 1, 1946.

Ser. No. 499,116. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 28, 1946.

LIPUBARB

FOR MEDICINAL PREPARATION INDICATED FOR THE RELIEF OF HYPERTENSION.
Claims use since Jan. 30, 1946.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 488,370. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The picture shown is fanciful.
FOR CIGARETTE AND CIGAR HOLDERS, PIPE CLEANERS, PIPES, AND PIPE RACKS.
Claims use since Aug. 23, 1945.

Ser. No. 493,555. HARGOLD ASSOCIATES, INC., New York, N. Y. Filed Dec. 19, 1945.

Sir Alfred

FOR PIPES, CIGAR AND CIGARETTE HOLDERS, AND TOBACCO POUCHES.
Claims use since Apr. 6, 1945.

Ser. No. 493,556. HARGOLD ASSOCIATES, INC., New York, N. Y. Filed Dec. 19, 1945.

Sir John

FOR PIPES, CIGAR AND CIGARETTE HOLDERS, AND TOBACCO POUCHES.
Claims use since Dec. 13, 1945.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 491,458. BELL OIL AND REFINING CO., Los Angeles, Calif. Filed Nov. 13, 1945.

BELL

HI-DUC

FOR ASPHALT USED FOR ROOFING, WATER PROOFING, DAMP-PROOFING, PROTECTIVE COATINGS FOR PIPES, AND SIMILAR USES.
Claims use since Aug. 25, 1945.

Ser. No. 493,936. MILTON R. THEILMAN, Cincinnati, Ohio. Filed Dec. 27, 1945.

ROLAGLASS

FOR STORM SASH FOR CASEMENT WINDOWS.
Claims use since Sept. 10, 1945.

Ser. No. 494,060. THE B. F. GOODRICH COMPANY, doing business as Hood Rubber Company, New York, N. Y., and Watertown, Mass. Filed Dec. 29, 1945.

FLIGHT

FOR SYNTHETIC RESIN MATERIAL IN MOLDED OR SHEET FORM AND, IN SOME CASES REINFORCED WITH FABRIC, COTTON FIBERS, WOOD VENEER, OR SIMILAR MATERIAL, USED FOR COVERING AND DECORATING FLOORS, WALLS, AND THE LIKE.
Claims use since Nov. 22, 1944.

Ser. No. 495,355. BASALT ROCK COMPANY, INC., Napa, Calif. Filed Jan. 25, 1946.

BASALITE

FOR CONCRETE BLOCKS MADE OF PUMICE.
Claims use since Apr. 14, 1935.

Ser. No. 496,430. COMMONWEALTH PLYWOOD COMPANY LIMITED, Ste. Therese, Quebec, Canada. Filed Feb. 12, 1946.

HUSKY

FOR PLYWOOD.
Claims use since Aug. 6, 1943.

Ser. No. 496,506. HABITANT SHOPS, INC., Bay City, Mich. Filed Feb. 13, 1946.

Suncraft

FOR CORNER TRELLISES, LAWN TRELLISES, ARBORS, ARBOR GATES, AND WOOD FENCING.
Claims use since 1926.

Ser. No. 497,250. DAVID E. KENNEDY, INC., Brooklyn, N. Y. Filed Feb. 26, 1946.

KENCORK *the friendly floor*

The word "Floor" is disclaimed apart from the other features of the mark.
FOR FLOOR TILES.
Claims use since June 28, 1937.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 492,246. ACE HARDWARE MFG. CO., INC., Huntington Park and Maywood, Calif. Filed Nov. 27, 1945.

VULCAN

FOR OVERHEAD GARAGE DOOR FITTINGS AND PARTS—NAMELY, PRESSED STEEL BRACKETS, SPRINGS, NUTS AND BOLTS, CAST IRON CASTINGS, SLIDE BOLT LOCK, CADMIUM PLATED HANDLE, LAG SCREWS, S HOOKS, STRAIGHT LINK CHAIN, SPRING ANCHORS, CHANNEL IRON, ANGLE IRON, TRUSS TAPE AND TRUSS ROD, CASTERS, SHEET METAL TRACK, EYE BOLTS, AND CORD.
Claims use since Apr. 13, 1945.

Ser. No. 495,623. PIPE COUPLINGS, INC., New York, N. Y. Filed Jan. 29, 1946.

PIPECO

FOR FLEXIBLE PIPE COUPLINGS, COMPOSED OF MULTIPART HOUSING, FASTENING MEANS AND A GASKET; METALLIC PIPE; METALLIC PIPE LEAK CLAMPS; AND METALLIC PIPE FITTINGS.
Claims use since Jan. 16, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 493,433. THE DENTAL SPECIALTY MANUFACTURING CO., INC., Denver, Colo. Filed Dec. 17, 1945.

Denclene

Applicant is the owner of Reg. No. 418,052. The drawing is lined to indicate the color green.
FOR HANDPIECE LUBRICANT AND CLEANER COMPRISING AN OILY-BASE LIQUID.
Claims use since Jan. 1, 1939.

Ser. No. 493,628. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 20, 1945.

EX-HI

Applicant is the owner of Reg. Nos. 404,307 and 408,010.
FOR LUBRICATING OILS AND GREASES.
Claims use since Oct. 8, 1945.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 493,327. CONSOLIDATED COSMETICS, Chicago, Ill. Filed Dec. 15, 1945.

TABU

FOR CIGARETTES AND CIGARS.
Claims use since Nov. 30, 1945.

CLASS 19

VEHICLES

Ser. No. 486,243. CONSOLIDATED VULTEE AIRCRAFT CORPORATION, San Diego, Calif. Filed July 25, 1945.

SKYCOACH

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since June 7, 1945.

Ser. No. 486,244. CONSOLIDATED VULTEE AIRCRAFT CORPORATION, San Diego, Calif. Filed July 25, 1945.

SKYCOUPE

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since June 7, 1945.

Ser. No. 486,838. HARRY E. WEISSBERG, Los Angeles, Calif. Filed Aug. 6, 1945.

SPORTSTER

FOR HOUSE AND CAMP TRAILERS.
Claims use since Feb. 19, 1938.

Ser. No. 492,201. JAGUAR CARS LIMITED, Warwickshire, England. Filed Nov. 26, 1945.

JAGUAR

FOR AUTOMOBILES, BUSES, MOTOR VANS, AND PARTS THEREOF.
Claims use since 1935.

Ser. No. 492,441. HUGHES TOOL COMPANY, doing business as Hughes Aircraft Company, Culver City, Calif. Filed Nov. 30, 1945.

HUGHES Sportster

No claim is made to the name "Hughes," or to the representation of the map of the United States apart from the mark.
FOR SMALL BOATS—NAMELY, DINGHIES.
Claims use since May 7, 1945.

Ser. No. 494,546. WILLIAM B. FAGEOL, Kent, Ohio. Filed Jan. 10, 1946.

Walkee-Bikes

The word "Bikes" is disclaimed apart from the mark.
FOR CHILD'S TRICYCLE.
Claims use since November 1945.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 492, 288. SPIEGEL, INC., Chicago, Ill. Filed Nov. 27, 1945.

Life-Laquer

Applicant disclaims the use of the word "Laquer", apart from the mark.
FOR LINOLEUM.
Claims use since January 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 487,012. IRVING GELLER, New York, N. Y. Filed Aug. 27, 1945.

STRATOTONE

FOR RADIO RECEIVING AND/OR TRANSMITTING SETS, TELEVISION RECEIVING AND SENDING APPARATUS, AND ELECTRICALLY CONTROLLED PHONOGRAPHS, AND ACCESSORIES FOR RADIO AND TELEVISION SENDING AND RECEIVING SETS.
Claims use since Aug. 20, 1945.

Ser. No. 494,853. LINCOLN ELECTRONICS CORPORATION, New York, N. Y. Filed Jan. 16, 1946.

BEACHCOMBER

FOR ELECTRIC PHONOGRAPHS.
Claims use since Dec. 1, 1945.

Ser. No. 494,881. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa. Filed Jan. 15, 1946.

CORONOX

FOR FLUID RESISTOR COMPOUND FOR COATING ELECTRICAL APPARATUS.
Claims use since December 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 488,372. REVOC, INC., doing business as Cover Girl, New York, N. Y. Filed Sept. 12, 1945.



The representation of the girl forming a feature of the mark is fanciful.
FOR DOLLS, GAMES REQUIRING THE PIECES USED TO BE CUT FROM LARGER SHEETS, TOY PAINT BOOKS, TOY COLORING AND PAINTING SETS, TOY YARN SETS, TOY BEAD SETS, TOY STEREOPTICANS, TOY KALEIDOSCOPES, BADMINTON SETS, PINGPONG SETS, RUBBER BALLS, BATHING AND SWIMMING FLOATS, TENNIS RACKETS, AND GOLF CLUBS.
Claims use since Aug. 23, 1945.

Ser. No. 495,214. ELAINE CANNON, Batavia, Ill. Filed Jan. 23, 1946.

Little Hickory

The word "Little" is disclaimed apart from the word "Hickory".
FOR DOLLS.
Claims use since July 1, 1945.

Ser. No. 495,360. ROBERT W. BERRY, doing business as Berry-Lebeck Mfg. Co., California, Mo. Filed Jan. 25, 1946.

TALKY-TOPPER

FOR FISH LURES.
Claims use since Jan. 11, 1946.

Ser. No. 495,361. ROBERT W. BERRY, doing business as Berry-Lebeck Mfg. Co., California, Mo. Filed Jan. 25, 1946.

WEE-GEE

No claim is made to the word "Wee" apart from the mark.
FOR FISH LURES.
Claims use since Jan. 11, 1946.

Ser. No. 495,926. WOLVERINE MANUFACTURING COMPANY, Berrien Springs, Mich. Filed Feb. 2, 1946.

SILVER COMET

FOR TOY WAGONS, TOY SLEDS, AND TOY WAGONS ADAPTED TO BE CONVERTED INTO TOY SLEDS.
Claims use since October 1945.

Ser. No. 496,084. JOS. L. KALLUS, doing business as Cameo Doll Products Co., Port Allegany, Pa. Filed Feb. 6, 1946.

Baby Blossom

FOR TOY DOLLS.
Claims use since 1927.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 484,497. THE PARSONS COMPANY, Newton, Iowa. Filed June 13, 1945.

TRENCHLINER

FOR DITCHING OR TRENCHING MACHINES.
Claims use since June 1944.

Ser. No. 486,083. PERRY BELDEN, Lansdale, Pa., assignor to Rotomower, Inc., Lansdale, Pa., a corporation of Pennsylvania. Filed July 21, 1945.

ROTOMOWER

FOR LAWN MOWERS PARTICULARLY OF THE POWER DRIVEN ROTARY TYPE.
Claims use since June 7, 1945.

Ser. No. 487,215. JACOB P. SEGELMAN, doing business as Dynamic Razor Blade Company, Los Angeles, Calif. Filed Aug. 17, 1945.

DYNAMIC

FOR RAZOR BLADES.
Claims use since Dec. 6, 1936.

Ser. No. 494,111. PARAMOUNT PAPER PRODUCTS CO., Omaha, Nebr. Filed Dec. 29, 1945.

Cello-Surer

FOR MACHINES FOR DISPENSING INITIALLY ROLLED STRIPS OF ADHESIVE SEALING TAPE.
Claims use since Sept. 15, 1944.

Ser. No. 494,322. GELLMAN MANUFACTURING COMPANY, Rock Island, Ill. Filed Jan. 5, 1946.

SEW-GEM

The word "Sew" is disclaimed apart from the mark.
FOR DOMESTIC SEWING MACHINES.
Claims use since Nov. 15, 1945.

Ser. No. 494,993. THE VULCAN IRON WORKS COMPANY, Denver, Colo. Filed Jan. 18, 1946.

PORTOCUT

FOR PORTABLE POWER OPERATED SAW FOR CUTTING WOOD.
Claims use since Oct. 20, 1945.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 493,711. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and also Quackenbush Company, Paterson, N. J. Filed Dec. 22, 1945.

AMBASSADOR

FOR GARMENT WASHING MACHINES OF THE PORTABLE TYPE, WRINGER TYPE, SPINNER TYPE AND AUTOMATIC TYPE: LAUNDRY DRYING MACHINES, AND LAUNDRY IRONING MACHINES.
Claims use since Nov. 26, 1945.

Ser. No. 493,713. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and also Quackenbush Company, Paterson, N. J. Filed Dec. 22, 1945.

ARISTOCRAT

FOR GARMENT WASHING MACHINES OF THE PORTABLE TYPE, WRINGER TYPE, SPINNER TYPE AND AUTOMATIC TYPE: LAUNDRY DRYING MACHINES, AND LAUNDRY IRONING MACHINES.
Claims use since Nov. 26, 1945.

CLASS 25

LOCKS AND SAFES

Ser. No. 496,505. THE C. L. GOUGLER KEYLESS LOCK COMPANY, Kent, Ohio. Filed Feb. 13, 1946.

RED DOT

FOR LOCKS.
Claims use since 1929.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 483,714. REX COLE, INC., Long Island City, N. Y. Filed May 24, 1945.



FOR FIELD TESTING SETS FOR TESTING THE FOLLOWING ELECTRICAL DEVICES: ELECTRONIC AND ELECTRICAL TURBO-SUPERCHARGER REGULATORS AND AUTOMATIC ENGINE CONTROLS; AND FOR OXYGEN FLOW INDICATOR GAUGES AND COMBINATIONS THEREOF.
Claims use since June 24, 1944, on field testing sets; since July 27, 1943 on oxygen flow indicator gauges; and since Nov. 20, 1944, on the combinations.

Ser. No. 487,674. GENERAL ANILINE & FILM CORPORATION, New York, N. Y. Filed Aug. 28, 1945.

SCONA

FOR PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, CAMERAS, CAMERA CASES, DEVELOPING TANKS, DEVELOPING TRAYS, DENSITOMETERS, ENLARGERS, EXPOSURE CALCULATORS, EXPOSURE METERS, PHOTOGRAPHIC FILTERS, PHOTOGRAPHIC FLASH BULBS, PHOTOGRAPHIC FLOOD BULBS, PHOTOGRAPHIC LENSES, PHOTOGRAPHIC SHUTTERS, SENSITIZED PHOTOGRAPHIC FILM, SENSITIZED PHOTOGRAPHIC PAPER, SENSITIZED PHOTOGRAPHIC COLOR FILM, SENSITIZED PHOTOGRAPHIC COLOR PAPER, PRINT TONGS, PHOTOGRAPHIC PRINTERS, PHOTOGRAPHIC STILL PROJECTORS, MOTION PICTURE REELS, MOTION PICTURE CANS, SAFELIGHTS FOR PHOTOGRAPHIC USES, THERMOMETERS, PHOTOGRAPHIC TIMERS, AND PHOTOGRAPHIC TRIPODS.
Claims use since Aug. 14, 1945.

Ser. No. 493,283. ROBBINS ENGINEERING COMPANY, Highland Park, Mich. Filed Dec. 14, 1945.

UNIV-ANGLE

Applicant disclaims the term "Angle" apart from the mark.
FOR SINE PLATES.
Claims use since July 25, 1945.

Ser. No. 495,024. THE FREDERICK POST COMPANY, Chicago, Ill. Filed Jan. 19, 1946.

VapoVel

The mark consists of the word "VapoVel".
FOR LIGHT-SENSITIZED LIGHT-TRANSMITTING BASE-SHEETS FOR PRODUCING POSITIVE TRANSPARENCIES OF DRAWINGS OR PRINTS FOR USE IN REPRODUCING MULTIPLE COPIES BY LIGHT-PRINTING PROCESSES ON LIGHT-SENSITIZED SHEETS.
Claims use since Feb. 10, 1944.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 459,380. SOCIETE ANONYME MIDO, Bienne, Switzerland, assignor to Mido Watch Company of America, Inc., New York, N. Y. Filed Mar. 26, 1943.

Lido

FOR WATCHES, CHRONOMETERS, WATCH MOVEMENTS, WATCH CASES, DIALS, AND PARTS OF WATCHES.
Claims use since May 21, 1943.

Ser. No. 488,877. THE UNITED STATES TIME CORPORATION, Waterbury, Conn. Filed Sept. 22, 1945.

SAGA

FOR WATCHES AND CLOCKS, BOTH CASED AND UNCASED, AND PARTS THEREFOR.
Claims use since Aug. 7, 1945.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 491,381. ARKWRIGHT, INCORPORATED, New York, N. Y. Filed Nov. 10, 1945.

FIRST LADY

FOR WRIST WATCH BRACELETS AND WATCH CHAINS.
Claims use since Jan. 1, 1930.

Ser. No. 494,033. CORO, INC., New York, N. Y. Filed Dec. 29, 1945.

COQUETTE

FOR NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, CIGARETTE CASES, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since Oct. 1, 1945.

Ser. No. 494,259. CHINA OVERSEAS, New York, N. Y. Filed Jan. 4, 1946.

Celeste

FOR JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES.
Claims use since Oct. 15, 1945.

Ser. No. 494,672. WILLIAM J. GILOOLY, doing business as American & Foreign Rosary Company, Central Falls, R. I. Filed Jan. 12, 1946.

Raphael ROSARIES

The word "Rosaries" is disclaimed apart from the mark.
FOR ROSARIES.
Claims use since Sept. 20, 1945.

Ser. No. 495,510. JULIA SCHWARTING, Hollywood, Fla. Filed Jan. 26, 1946.

Julia's



Novel Art

No claim is made to the representation of the goods, or to the words "Novel Art" apart from the mark.
FOR ARTICLES OF JEWELRY MADE OF FANCY SHELLWORK—NAMELY, BREAST-PINS, BROOCHES, EAR-RINGS, MEDALLIONS, AND THE LIKE.
Claims use since Dec. 18, 1945.

Ser. No. 495,961. THE ELLMORE SILVER COMPANY, INC., Meriden, Conn. Filed Feb. 4, 1946.

INGRID

FOR SILVERWARE IN THE NATURE OF FLATWARE FOR TABLE USE.
Claims use since Dec. 5, 1940.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 494,412. STAR BRUSH MANUFACTURING CO. INC., Boston, Mass. Filed Jan. 7, 1946.



The representation of the brush handle appearing in the mark is disclaimed.
FOR PAINT BRUSHES.
Claims use since Dec. 12, 1945.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 494,218. THE HILLIARD CORPORATION, Elmira, N. Y. Filed Jan. 3, 1946.

HILCO-AIRLINE

FOR FILTERING APPARATUS ESPECIALLY INTENDED FOR THE RECLAIMING OF OIL AND PARTS FOR SUCH APPARATUS; AND COTTON, WOOD FIBRE, FULLER'S EARTH PROCESSED FOR USE AS FILTERING MEDIA.
Claims use since Nov. 29, 1933, on the mark "Hilco", and since Apr. 7, 1942, on the mark presented.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 488,631. WESTERN TRAIL COMPANY, Portland, Oreg. Filed Sept. 17, 1945.



FOR LAWN AND PARTY ROOM FURNITURE—NAMELY, TABLES, TETE-A-TETES, CHAISES LOUNGES, COFFEE TABLES, BENCHES, CHAIRS, STOOLS, AND UMBRELLA TABLES.
Claims use since July 25, 1945.

Ser. No. 494,679. HOLLANDER-CRAFT, Neptune, N. J. Filed Jan. 12, 1946.

BOUDOIR MAID

The word "Boudoir" is disclaimed apart from the mark.
FOR WEARING APPAREL AND ACCESSORY RACKS.
Claims use since May 1945.

Ser. No. 495,767. THE SPONGE RUBBER PRODUCTS COMPANY, Shelton, Conn. Filed Jan. 31, 1946.

Texlock

FOR MATERIAL USED AS CUSHIONING SUPPORTS AND FILLERS IN UPHOLSTERED FURNITURE.
Claims use since Sept. 21, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 482,510. SOLAR AIRCRAFT COMPANY, San Diego, Calif. Filed Apr. 23, 1945.

AIRMAX

FOR AIRCRAFT HEATERS.
Claims use since Mar. 18, 1940.

Ser. No. 492,082. PARK SHERMAN CO., INC., Chicago, Ill. Filed Nov. 23, 1945.

Storm King

FOR PYROPHORIC CIGARETTE LIGHTERS.
Claims use since Nov. 8, 1945.

Ser. No. 492,404. TALLMAN-McCLUSKEY FABRICS CO., St. Louis, Mo. Filed Nov. 29, 1945.



FOR WICKS FOR OIL COOKING AND HEATING STOVES.
Claims use since Nov. 1, 1945.

Ser. No. 492,600. UNITED ADVERTISING CORPORATION, New Haven, Conn. Filed Dec. 3, 1945.



UNITED

FOR CHARCOAL BROILERS.
Claims use since Nov. 10, 1945.

Ser. No. 493,066. KNOEDLER BROS., INC., New York, N. Y. Filed Dec. 11, 1945.



The word "Wind" is disclaimed apart from the mark. The lining on the drawing indicates shading.
FOR PYROPHORIC LIGHTERS.
Claims use since June 1945.

Ser. No. 494,514. NORTHERN ENGINEERING CO., Milwaukee, Wis. Filed Jan. 9, 1946.

flik

FOR PYROPHORIC CIGARETTE AND CIGAR LIGHTERS.
Claims use since Nov. 12, 1945.

Ser. No. 497,991. CLEM BUENGER, doing business as Highland Manufacturing Company, Cold Springs, Ky. Filed Mar. 11, 1946.

Smooth Lite

The word "Lite" is disclaimed apart from the mark.
FOR PYROPHORIC CIGARETTE LIGHTERS.
Claims use since Dec. 1, 1945.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 488,266. CHARLES F. HAUSE, doing business as Chas. F. Hause Mfg. Co., Reseda, Calif. Filed Sept. 11, 1945.



FOR FAUCET WASHERS OF RUBBER OR SIMILAR MATERIAL.
Claims use since July 10, 1940.

Ser. No. 495,624. PIPE COUPLINGS, INC., New York, N. Y. Filed Jan. 29, 1946.

PIPECO

FOR FLEXIBLE GASKETS, COMPOSED OF RUBBER, SYNTHETIC RUBBER AND PLASTICS AND COMBINATIONS THEREOF.
Claims use since Jan. 16, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 490,852. POLYCRAFT, INC., New York, N. Y. Filed Oct. 31, 1945.

Memo-matic

The word "Memo" is disclaimed apart from the mark.
FOR NOTEBOOKS, PADS, DIARIES, DESK CALENDARS, DESK PADS, AND PAD HOLDERS.
Claims use since July 17, 1945.

Ser. No. 493,523. WHEELER PAPER CORPORATION, Albany, N. Y. Filed Dec. 18, 1945.

DRYAD

FOR PAPER TOWELS.
Claims use since January 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 482,664. AMERICAN BRAKE SHOE COMPANY, New York, N. Y. Filed Apr. 27, 1945.

ABSCO

FOR PUBLICATION ISSUED PERIODICALLY PERTAINING TO THE BUSINESS OF REGISTRANT.
Claims use since July 1935.

Ser. No. 488,897. GROSSET & DUNLAP, INC., New York, N. Y. Filed Sept. 24, 1945.



No claim is made to the use of the words "Grosset & Dunlap" apart from the mark.
FOR PRINTED BOOKS.
Claims use since Aug. 28, 1945.

Ser. No. 492,031. CATHOLIC FOREIGN MISSION SOCIETY OF AMERICA, INC., Ossining, N. Y. Filed Nov. 28, 1945.

MARYKNOLL
• THE FIELD AFAR •

FOR PERIODICAL PUBLICATION RELATING TO THE MISSIONARY ACTIVITIES OF THE APPLICANT.
Claims use since Feb. 24, 1943.

CLASS 39

CLOTHING

Ser. No. 481,565. RUTH COUFFER ADAM, doing business as Personality Products, Kansas City, Mo. Filed Mar. 31, 1945.

PERSONALITY

FOR INFANTS' KNITTED WEAR.
Claims use since Dec. 1, 1944.

Ser. No. 489,040. COHEN, GOLDMAN & CO., INC., New York, N. Y. Filed Sept. 27, 1945.

TEX-KNIT

Applicant disclaims the word "Knit" apart from the mark.
FOR MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, VESTS, PANTS, TROUSERS, OVERCOATS, AND TOP COATS.
Claims use since Aug. 15, 1945.

Ser. No. 491,493. NARDIS SPORTS WEAR, Dallas, Tex. Filed Nov. 13, 1945.

Teenard
OF DALLAS

The words "of Dallas" are disclaimed apart from the mark.
FOR MISSES' SPORTSWEAR—NAMELY, SKIRTS, BLOUSES, JACKETS, SUITS, COATS, DRESSES, SHORTS, HALTERS, SLACKS, AND FOUR-PIECE SPORTS SUITS.
Claims use since Oct. 22, 1945.

Ser. No. 497,334. RAPID SPORTSWEAR CO., New York, N. Y. Filed Feb. 27, 1946.

Hubba-Hubba

FOR LADIES' RAINCOATS.
Claims use since Dec. 10, 1945.

Ser. No. 497,487. MARJAN, INCORPORATED, Lancaster, Pa. Filed Mar. 1, 1946.

debutot

FOR INFANTS' AND CHILDREN'S DRESSES.
Claims use since Feb. 25, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 479,381. DRITZ-TRAUM COMPANY, INC., New York, N. Y., now by change of name Daird Traum Company, Incorporated. Filed Feb. 3, 1945.



FOR BAG PULLS AND CLIPS, NOT MADE OF PRECIOUS METAL FOR WOMEN'S HANDBAGS.
Claims use since Jan. 25, 1945.

Ser. No. 485,591. E. J. PEARSON & SONS LIMITED, London, England. Filed July 9, 1945.

PEARMAN

FOR LEATHER WRIST WATCH STRAPS.
Claims use since June 24, 1930.

Ser. No. 490,982. SYRACUSE ORNAMENTAL CO., New York, N. Y. Filed Nov. 2, 1945.

SyrocoWood

Applicant disclaims the word "Wood" apart from the mark.
FOR BRUSH AND COMB SET, COMBS, ORNAMENTAL PINS, BUTTONS, BUCKLES, AND PIN CUSHIONS, ALL NOT MADE OF PRECIOUS METALS.
Claims use since April 1931.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 471,105. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 9, 1944.

Charmode

FOR UMBRELLAS.
Claims use since Aug. 1, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 491,225. ABCO, INC., New York, N. Y., and San Antonio, Tex. Filed Nov. 8, 1945.

DING HOW



"Ding How" is a coined phonetic translation represented by the Chinese symbols which constitutes an expression of greeting having the implication of the English greeting such as "Good Wishes."

FOR PIECE GOODS OF SILK, LINEN, AND COTTON, OR COMBINATIONS THEREOF, FOR TABLECLOTHS, LUNCHEON SETS, NAPKINS, AND SHAWLS, AND SCARVES FOR USE AS FURNITURE DRAPERY OR SIMILAR PURPOSES.
Claims use since Oct. 25, 1945.

Ser. No. 492,723. MEADTEX FABRICS CO., New York, N. Y. Filed Dec. 5, 1945.

BLENEL

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.
Claims use since May 5, 1945.

Ser. No. 492,828. ELLISON & SPRING, INC., New York, N. Y. Filed Dec. 7, 1945.

STYLEMASTER

FOR TABLE CLOTHS, TABLE COVERS, NAPKINS, QUEST AND KITCHEN TOWELS, AND TABLE MATS OF FABRICS COMPRISED OF LINEN, COTTON, RAYON, AND COMBINATIONS THEREOF.
Claims use since Feb. 1, 1945.

CLASS 43

THREAD AND YARN

Ser. No. 475,434. MCCOY, JONES & COMPANY, INC., Chicago, Ill. Filed Oct. 18, 1944.

PEARLY FLUFF

No claim is made to the word "Fluff" apart from the mark.
FOR HANDKNITTING YARNS.
Claims use since Feb. 14, 1923.

Ser. No. 492,595. TUBIZE RAYON CORPORATION, New York, N. Y., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Filed Dec. 3, 1945.

Tu-bize

FOR RAYON YARNS.
Claims use since September 1944.

Ser. No. 493,155. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Dec. 12, 1945.

JIFFY

FOR ART NEEDLEWORK YARNS.
Claims use since May 20, 1940.

Ser. No. 494,326. HOPKINS PLASTICS, INC., Baltimore, Md. Filed Jan. 5, 1946.

WYNITE

FOR THREAD.
Claims use since Oct. 17, 1945.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 492,579. PERRY BOTTLING COMPANY, Perry, Iowa. Filed Dec. 3, 1945.



The portrait forming a part of the mark is fanciful. No claim is made to the representation of the glass apart from the mark.
FOR NON-ALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK.
Claims use since Oct. 15, 1945.

Ser. No. 492,995. EMPIRE PRODUCTS CORPORATION, El Paso, Tex. Filed Dec. 10, 1945.

Reception Punch

Applicant disclaims in the mark the word "Punch" except in the relationship shown.
FOR IMITATION GRAPE PUNCH CONCENTRATE.
Claims use since Nov. 1, 1945.

Ser. No. 495,250. MIDWESTERN BEVERAGE LABORATORIES, St. Louis, Mo. Filed Jan. 23, 1946.



GENI

The portrait is fanciful.
FOR NON-ALCOHOLIC NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING SAME.
Claims use since June 2, 1945.

Ser. No. 495,449. H. W. CARTER & CO., LIMITED, Bristol, England. Filed Jan. 26, 1946.

RIBENA

FOR BLACK CURRANT SYRUP FOR MAKING BEVERAGES IN THE NATURE OF SOFT DRINKS.
Claims use since January 1938.

Ser. No. 496,288. DAN VICELLIO, Chicago, Ill. Filed Feb. 8, 1946.

Alert

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS, CARBONATED AND NON-CARBONATED BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Dec. 20, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 472,257. RICE CONVERSION LIMITED, London, England. Filed July 14, 1944.

CONVERTA

FOR RICE FOR FOOD.
Claims use since Dec. 21, 1943.

Ser. No. 472,258. RICE CONVERSION LIMITED, London, England. Filed July 14, 1944.

CONVERTO

FOR RICE FOR FOOD.
Claims use since Dec. 21, 1943.

Ser. No. 477,650. GENERAL DESSERTS CORPORATION, New York, N. Y. Filed Dec. 16, 1944.

TRU-FRU-JEL

Applicant is the owner of Reg. No. 420,442. The terms "Tru" and "Jel" are disclaimed.
FOR GELATIN DESSERT.
Claims use since Nov. 29, 1943.

Ser. No. 481,804. RICH-LAND CANNING CORPORATION, Friesland, Wis. Filed Apr. 6, 1945.

NEW-TRI-FUL

No claim is made for the use of the word "New" apart from the mark.

FOR CANNED PEAS AND CANNED CORN.

Claims use since Sept. 14, 1944.

Ser. No. 482,625. JOHN E. HAYNES, doing business as Arkansas Peanut Company, Hot Springs, Ark. Filed Apr. 26, 1945.

CHUK -O- LUCK

FOR SALTED PEANUTS.

Claims use since June 10, 1944.

Ser. No. 482,748. CHARLES A. KRAMER, doing business as Southern California Fruit Products Company, La Crescenta and Los Angeles, Calif. Filed Apr. 28, 1945.

DASHO

FOR BOTTLED LEMON JUICE FOR FOOD PURPOSES.

Claims use since 1941.

Ser. No. 485,477. ROBERT E. FRIZZELL, Fort Worth, Tex. Filed July 5, 1945.

VITABURGER

FOR PREPARED FOODS—NAMELY, GROUND MEAT SANDWICHES.

Claims use since Apr. 1, 1945.

Ser. No. 486,570. ELOY RANCHES, INC., Eloy, Ariz. Filed Aug. 1, 1945.

ELOY CHIEF

No claim is made to the word "Eloy" apart from the mark.

FOR FRESH ASPARAGUS, FRESH BROCCOLI, FRESH CABBAGE, FRESH LETTUCE, AND FRESH POTATOES.

Claims use since Jan. 14, 1945.

Ser. No. 486,571. ELOY RANCHES, INC., Eloy, Ariz. Filed Aug. 1, 1945.

ELOY MAID

The shading shown in the drawing indicates the color green. No claim is made to the word "Eloy" apart from the mark.

FOR FRESH ASPARAGUS, FRESH BROCCOLI, FRESH CABBAGE, FRESH CARROTS, FRESH LETTUCE, AND FRESH POTATOES.

Claims use since Dec. 15, 1944.

Ser. No. 490,206. ODEON THEATRES LIMITED, London, England. Filed Oct. 19, 1945.

ODEON

FOR CONFECTIONERY—NAMELY, CHOCOLATE AND OTHER CANDIES.

Claims use since 1935.

Ser. No. 491,226. WALTER BAKER & COMPANY, INC., Dorchester, Mass. Filed Nov. 8, 1945.

EQUATOR

FOR CANDY.

Claims use since Feb. 11, 1944.

Ser. No. 491,235. CONCORDADE COMPANY, INC., Providence, R. I. Filed Nov. 8, 1945.



The drawing is lined for shading only.

FOR COFFEE SIRUP AND COFFEE EXTRACT, FOR FOOD FLAVORING PURPOSES.

Claims use since Oct. 2, 1940.

Ser. No. 491,286. HENRY H. REICHMAN, doing business as Oz Laboratories, New York, N. Y. Filed Nov. 8, 1945.

OZ

FOR PACKAGED PREPARED DESSERTS—NAMELY, ICE CREAM MIXES.

Claims use since Apr. 15, 1945.

Ser. No. 493,504. NATIONAL PECTIN PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 18, 1945.

NA-PĒ-CO

FOR EMULSIFIERS FOR USE IN THE MANUFACTURE OF FROZEN CONFECTIONS.

Claims use since Nov. 5, 1945.

Ser. No. 493,887. ELWYN C. HALE FISHERIES AND ESTATE OF C. P. HALE, San Francisco, Calif. Filed Dec. 26, 1945.

HALE & HEARTY

FOR CANNED FISH, FISH MEAL FOR LIVESTOCK FEED AND POULTRY FEED, SALAD DRESSING, PICKLES, CANDIES, JELLY, JAM, SAUCES FOR SEASONING FOOD, CHEESE AND FISH SPREAD, AND CHEESE AND FISH SAUCE.

Claims use since Sept. 11, 1945.

Ser. No. 494,858. NEW ENGLAND EXTRACT COMPANY, Boston, Mass. Filed Jan. 16, 1946.

NEECO

FOR COFFEE EXTRACTS.

Claims use since October 1933.

Ser. No. 495,173. H. B. KENNERLY & SON, Nanticoke, Md. Filed Jan. 22, 1946.

KENSON

FOR CANNED FISH AND CANNED VEGETABLES.

Claims use since Jan. 7, 1946.

Ser. No. 495,275. COSMOS INTERNATIONAL CORPORATION, New York, N. Y. Filed Jan. 24, 1946.

TOTi

FOR DIETETIC SALT.

Claims use since December 1943.

Ser. No. 496,519. REYNOLDS BROTHERS, Niagara Falls, N. Y., and Senoia, Ga. Filed Feb. 13, 1946.

Malinda's Stew

No claim is made to the word "Stew" apart from the mark.

FOR FOOD PRODUCTS—NAMELY, CANNED STEW COMPRISING CORN, ONIONS, CHICKEN, BEEF, SALT, PEPPER, AND TOMATOES.

Claims use since Jan. 28, 1946.

Ser. No. 496,991. SIMONS & FRENCH COMPANY, INCORPORATED, Sacramento, Calif., and New York, N. Y. Filed Feb. 20, 1946.

LAKE-KIST

FOR FRESH DECIDUOUS FRUITS—NAMELY, PEARS.

Claims use since Apr. 14, 1925.

Ser. No. 497,372. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Feb. 28, 1946.

DEXTROPUR

FOR SUGAR.

Claims use since Jan. 25, 1946.

Ser. No. 497,639. WEST MUSHROOM COMPANY, also doing business as West Foods, Salem, Oreg. Filed Mar. 4, 1946.

SHADY OAK

FOR CANNED MUSHROOMS.

Claims use since 1941.

CLASS 47

WINES

Ser. No. 484,492. MONTE CARLO WINE CO., INC., New Brunswick, N. J. Filed June 13, 1945.

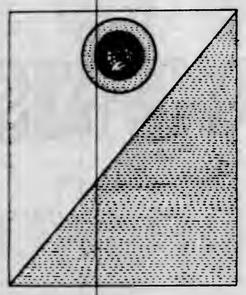
SOUTHERN BEAUTY

FOR WINES.
Claims use since December 1936.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS.

Ser. No. 478,950. COMPAÑIA COMERCIAL E INDUSTRIAL NICOLAS MERINO S. A., Habana, Cuba. Filed Jan. 24, 1945.



The drawing is lined for the colors red and silver. Applicant disclaims the right to the use of a rectangular label apart from the mark as a whole.
FOR RUM.
Claims use since Sept. 28, 1940.

Ser. No. 485,888. SECURITY LIQUOR COMPANY, St. Louis, Mo. Filed July 16, 1945.



FOR WHISKEY.
Claims use since 1922.

Ser. No. 487,357. CONSOLIDATED DISTILLERIES, INC., East Taunton, Mass. Filed Aug. 21, 1945.

Blue Skyes

FOR WHISKEY.
Claims use since May 26, 1945.

Ser. No. 491,891. SOUTHERN COMFORT CORPORATION, St. Louis, Mo. Filed Nov. 19, 1945.



No claim is made to the reading matter or to the representation of a label except the words "Southern Comfort."
FOR LIQUEUR.
Claims use since Jan. 19, 1934.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 490,998. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 3, 1945.

FORTICEL

FOR RETICULAR METALLIC AND/OR TEXTILE BASE COVERED WITH A FILM OR COATING OF A CELLULOSE DERIVATIVE, SUITABLE FOR USE AS A SUBSTITUTE FOR GLASS.
Claims use since Oct. 30, 1945.

Ser. No. 492,424. BIDDLE-COX COMPANY, INC., New York, N. Y. Filed Nov. 30, 1945.

DARKIZE

FOR LUMINOUS CAPSULES TO BE ATTACHED TO OBJECTS TO BE LOCATED IN THE DARK.
Claims use since Sept. 10, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 2, 1946

422,046. ARC LENGTH MONITORS FOR INDICATING A DEVIATION FROM A PRE-DETERMINED NORMAL FOR A WELDING ARC FOR USE IN ARC-WELDING OPERATIONS. A. O. SMITH CORPORATION, Milwaukee, Wis.
Filed November 21, 1942. Serial No. 456,964. PUBLISHED APRIL 2, 1946. Class 26.

422,047. RELIGIOUS BOOKS, TRACTS, PAMPHLETS, MOTTOES, AND GREETING CARDS. GOSPEL TRUMPET COMPANY, Anderson, Ind.
Filed February 18, 1944. Serial No. 467,522. PUBLISHED APRIL 2, 1946. Class 38.

422,048. PAPERBOARD BOXES HAVING HINGED COVERS. NATIONAL FOLDING BOX COMPANY, New Haven, Conn.
Filed February 25, 1944. Serial No. 467,765. PUBLISHED MAY 1, 1945. Class 2.

422,049. CEREAL BREAKFAST FOODS. KELLOGG COMPANY, Battle Creek, Mich.
Filed October 27, 1944. Serial No. 475,759. PUBLISHED APRIL 9, 1946. Class 46.

422,050. AIR MAIL PAPER, AIR MAIL ENVELOPES, PRINTING PAPER, MAILING ENVELOPES, PAPETERIES, AND WRITING PAPER. AGENCY PAPER COMPANY, New York, N. Y.
Filed November 16, 1944. Serial No. 476,489. PUBLISHED APRIL 16, 1946. Class 37.

422,051. COIN SLIDES FOR COIN-OPERATED AMUSEMENT DEVICES AND MACHINES. A. B. T. MANUFACTURING CORP., Chicago, Ill.
Filed December 18, 1944. Serial No. 477,678. PUBLISHED APRIL 16, 1946. Class 22.

422,052. SCALDING VATS; WASTE CANS; DELIVERY BASKETS, AND SILO SPOUTS. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed January 11, 1945. Serial No. 478,495. PUBLISHED APRIL 16, 1946. Class 2.

422,053. COTTON, WOOLEN, LINEN, AND RAYON FIBRES, SLIVER, SLUBBING, AND ROVING. R. WOLFENDEN & SONS, Attleboro, Mass.
Filed January 17, 1945. Serial No. 478,730. PUBLISHED APRIL 16, 1946. Class 1.

422,054. WALLETS, BILLFOLDS, PORTFOLIOS, KEY-HOLDERS, LADIES' HAND-BAGS AND TRAVEL BAGS MADE WHOLLY OR PARTLY OF LEATHER. JAY-DEE LEATHER PRODUCTS COMPANY, Redwood City, Calif.
Filed January 23, 1945. Serial No. 478,924. PUBLISHED APRIL 16, 1946. Class 3.

422,055. COMPACTS MADE OF PLASTICS AND/OR BASE METALS, AND SOLD IN THE TRADE EMPTY. ROYAL PLASTIC CO., Los Angeles, Calif.
Filed February 21, 1945. Serial No. 480,090. PUBLISHED APRIL 16, 1946. Class 2.

422,056. MEN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF SAID MATERIALS. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed March 14, 1945. Serial No. 480,893. PUBLISHED MARCH 19, 1946. Class 39.

422,057. FITTED TRAVELING KITS AND BILLFOLDS. ILLINOIS WATCH CASE CO., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill.
Filed April 7, 1945. Serial No. 481,843. PUBLISHED APRIL 16, 1946. Class 3.

422,058. PUBLICATION PUBLISHED PERIODICALLY—NAMELY, MYSTERY STORIES. THE DUCHESS PRINTING AND PUBLISHING CO., LIMITED, Toronto, Ontario, Canada.
Filed April 17, 1945. Serial No. 482,240. PUBLISHED APRIL 2, 1946. Class 38.

422,059. BEDROOM SLIPPERS, BABY BIBS, AND BABY PANTS. RUBBER CORPORATION OF AMERICA, Brooklyn, N. Y.
Filed April 19, 1945. Serial No. 482,350. PUBLISHED MARCH 26, 1946. Class 39.

422,060. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. JIMMIE GILL, Jacksonville, Fla.
Filed April 20, 1945. Serial No. 482,376. PUBLISHED APRIL 2, 1946. Class 46.

422,061. MAGAZINE RELATING TO AVIATION PUBLISHED PERIODICALLY. WOMEN'S NATIONAL AERONAUTICAL ASSOCIATION OF THE UNITED STATES, INCORPORATED, Pueblo, Colo.
Filed April 23, 1945. Serial No. 482,514. PUBLISHED APRIL 2, 1946. Class 38.

422,062. DOUGHNUTS. JOSEPH C. LUNSFORD, Portland, Oreg.
Filed May 16, 1945. Serial No. 483,433. PUBLISHED APRIL 9, 1946. Class 46.

422,063. SHOES MADE OF LEATHER AND FABRIC. YANKEE SHOEMAKERS, INC., Newmarket, N. H.
Filed June 1, 1945. Serial No. 484,070. PUBLISHED MARCH 26, 1946. Class 39.

422,064. MEN'S AND BOYS' HATS AND CAPS. BARCLAY HAT CO., Cleveland, Ohio.
Filed June 2, 1945. Serial No. 484,077. PUBLISHED NOVEMBER 13, 1945. Class 39.

422,065. HARMONICAS. RONBER, INC., Jersey City, N. J.
Filed June 9, 1945. Serial No. 484,368. PUBLISHED APRIL 9, 1946. Class 36.

422,066. WOOD AND PAPER VENEER BOARD. CHICAGO MILL AND LUMBER COMPANY, Chicago, Ill.
Filed June 22, 1945. Serial No. 484,878. PUBLISHED APRIL 9, 1946. Class 12.

422,067. PERIODICAL PUBLISHED AT IRREGULAR INTERVALS, DEALING WITH WEATHER CONDITIONS. MAYENCE RESEARCH ASSOCIATES, Longwood, Fla.
Filed July 10, 1945. Serial No. 485,641. PUBLISHED APRIL 9, 1946. Class 38.

422,068. TOYS—NAMELY, RATTLES. SUNBEAM INFANTS WEAR AND NOVELTY COMPANY, Wilkes-Barre, Pa.
Filed July 31, 1945. Serial No. 486,549. PUBLISHED APRIL 16, 1946. Class 22.

422,069. VOLLEY BALLS AND BASKET BALLS. THE SUN RUBBER COMPANY, Barberton, Ohio.
Filed August 9, 1945. Serial No. 486,975. PUBLISHED APRIL 16, 1946. Class 22.

422,070. TECHNICAL, ADVERTISING, AND EDUCATIONAL DRAWINGS, PRINTS, MANUALS, BROCHURES, AND BOOKS PREPARED AND SOLD IN TRADE BY APPLICANT. JORDANOFF AVIATION CORPORATION, New York, N. Y.
Filed August 14, 1945. Serial No. 487,134. PUBLISHED APRIL 2, 1946. Class 38.

422,071. LADIES' AND CHILDREN'S HATS, DRESSES, BLOUSES, VESTS AND BOLEROS, SUSPENDERS, DICKEYS, AND SCARFS. EMANUEL & Co., Los Angeles, Calif.
Filed August 20, 1945. Serial No. 487,314. PUBLISHED MARCH 26, 1946. Class 39.

422,072. KNITTED GLOVES COMPOSED OF FIBERS DERIVED FROM ANIMALS OF THE LLAMA FAMILY INCLUDING SOME FIBERS COMMERCIALLY KNOW AS ALPACA. GLOVERSVILLE KNITTING CO., Gloversville, N. Y.
Filed August 21, 1945. Serial No. 487,360. PUBLISHED MARCH 26, 1946. Class 39.

422,073. TUBES IN THE NATURE OF CONTAINERS AND BAGS MADE FROM PLASTICS. THE VISKING CORPORATION, Chicago, Ill.
Filed August 24, 1945. Serial No. 487,533. PUBLISHED APRIL 16, 1946. Class 2.

422,074. PLASTIC RODS, TAPES, BARS, AND SLATS, RIGID, SEMI-RIGID, OR FLEXIBLE FOR USE FOR VARIOUS PURPOSES IN THE INDUSTRIAL ARTS. THE VISKING CORPORATION, Chicago, Ill.
Filed August 24, 1945. Serial No. 487,536. PUBLISHED APRIL 16, 1946. Class 1.

422,075. CROCKERY AND CHINAWARE—NAMELY, TABLEWARE AND KITCHENWARE. DOHRMANN HOTEL SUPPLY CO., San Francisco, Calif.
Filed August 27, 1945. Serial No. 487,603. PUBLISHED APRIL 2, 1946. Class 30.

422,076. BLANK FORMS—NAMELY, BANK CHECKS. WALLACE I. DEMENT, Jackson, Miss.
Filed August 29, 1945. Serial No. 487,704. PUBLISHED APRIL 16, 1946. Class 37.

422,077. COAL. HOLMES-DARST COAL CORPORATION, Knoxville, Tenn.
Filed September 18, 1945. Serial No. 488,648. PUBLISHED APRIL 16, 1946. Class 1.

422,078. SHEET MUSIC AND MUSIC BOOKS. AM-RUS MUSIC AGENCY, INC., New York, N. Y.
Filed September 22, 1945. Serial No. 488,844. PUBLISHED APRIL 16, 1946. Class 38.

422,079. MEN'S JEWELRY—NAMELY, TIE PINS, CUFF LINKS, AND COLLAR BUTTONS. MORRIS BALICER, New York, N. Y.
Filed September 25, 1945. Serial No. 488,949. PUBLISHED APRIL 9, 1946. Class 28.

422,080. PENETRATING, LUBRICATING COMPOSITION CONTAINING A MIXTURE OF A VEGETABLE OIL AND A SOLVENT THEREFOR. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed October 4, 1945. Serial No. 489,392. PUBLISHED MARCH 26, 1946. Class 15.

422,081. BEDROOM FURNITURE—NAMELY, BEDS, DRESSERS, CHESTS OF DRAWERS, NIGHT TABLES, VANITY TABLES, AND VANITY TABLE BENCHES. MORGAN MANUFACTURING COMPANY, INC., Asheville, N. C.
Filed October 4, 1945. Serial No. 489,408. PUBLISHED APRIL 16, 1946. Class 32.

422,082. BEDROOM FURNITURE—NAMELY, BEDS, DRESSERS, CHESTS OF DRAWERS, NIGHT TABLES, VANITY TABLES, AND VANITY TABLE BENCHES. MORGAN MANUFACTURING COMPANY, INC., Asheville, N. C.
Filed October 4, 1945. Serial No. 489,409. PUBLISHED APRIL 16, 1946. Class 32.

422,083. CHILDREN'S TOY COASTER WAGONS. SAY-WAY INDUSTRIES, Detroit, Mich.
Filed October 5, 1945. Serial No. 489,490. PUBLISHED APRIL 16, 1946. Class 22.

422,084. TOY EDUCATIONAL KITS FOR MAKING PLASTIC ARTICLES. PLASTIC IMAGINEERS, New York, N. Y.
Filed October 6, 1945. Serial No. 489,528. PUBLISHED APRIL 16, 1946. Class 22.

422,085. COLUMN OR SECTION IN A PERIODICAL PUBLICATION. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y.
Filed October 9, 1945. Serial No. 489,662. PUBLISHED APRIL 2, 1946. Class 38.

422,086. HUMIDORS. ROGERS IMPORTS INC., New York, N. Y.
Filed October 9, 1945. Serial No. 489,694. PUBLISHED APRIL 16, 1946. Class 8.

422,087. WRITING PAPER. PETER J. SCHWEITZER, INC., New York, N. Y.
Filed October 10, 1945. Serial No. 489,768. PUBLISHED APRIL 16, 1946. Class 37.

422,088. SEPTIC TANKS MADE OF CONCRETE, AND SUBMERGED GARBAGE PAIL CONTAINERS MADE OF CONCRETE. HAROLD R. SUTTER, doing business as Buffalo Septic Tank Company, Buffalo, N. Y.
Filed October 10, 1945. Serial No. 489,776. PUBLISHED APRIL 16, 1946. Class 2.

422,089. ELECTRIC REFRIGERATORS. FARMCO, INC., Jersey City, N. J., and New York, N. Y.
Filed October 18, 1945. Serial No. 490,110. PUBLISHED APRIL 16, 1946. Class 31.

422,090. PHOTOGRAPHIC EQUIPMENT AND SUPPLIES—NAMELY, PHOTOGRAPHIC FILM VIEWERS AND PHOTOGRAPHIC SLIDE FILES. TECHNICAL DEVICES CORPORATION, Roseland, N. J.
Filed October 19, 1945. Serial No. 490,217. PUBLISHED APRIL 9, 1946. Class 26.

422,091. WOMEN'S AND MISSES' BOOTS AND SHOES MADE OF LEATHER, FABRIC, RUBBER, STRAW, AND COMBINATIONS OF THESE MATERIALS. BRITISH WEST INDIES CO., New York, N. Y.
Filed October 22, 1945. Serial No. 490,282. PUBLISHED MARCH 26, 1946. Class 39.

422,092. LEATHER TRAVELING BAGS, WALLETS, AND COMBINATION WALLETS AND CHANGE PURSES. SYLVIA SEGAL, New York, N. Y.
Filed October 27, 1945. Serial No. 490,605. PUBLISHED APRIL 16, 1946. Class 3.

422,093. TOY GUNS. VAN HASLIN INDUSTRIES, Chicago, Ill.
Filed October 27, 1945. Serial No. 490,606. PUBLISHED APRIL 16, 1946. Class 22.

422,094. PICTORIAL PERIODICAL ALSO CONTAINING PRINTED MATTER. ROBERT HARRISON, New York, N. Y.
Filed October 29, 1945. Serial No. 490,659. PUBLISHED APRIL 16, 1946. Class 38.

422,095. GIRLS' AND WOMEN'S SLIPPERS MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed November 5, 1945. Serial No. 491,074. PUBLISHED MARCH 26, 1946. Class 39.

422,096. VENETIAN BLINDS. ARTEX-GREEN CORPORATION, New York, N. Y.
Filed November 6, 1945. Serial No. 491,149. PUBLISHED APRIL 16, 1946. Class 32.

422,097. LADIES' UNDERWEAR. JULIUS KAYSER & Co., New York, N. Y.
Filed November 9, 1945. Serial No. 491,340. PUBLISHED MARCH 26, 1946. Class 39.

422,098. FABRIC GLOVES. JULIUS KAYSER & Co., New York, N. Y.
Filed November 9, 1945. Serial No. 491,342. PUBLISHED MARCH 26, 1946. Class 39.

422,099. LADIES' NIGHTGOWNS. JULIUS KAYSER & Co., New York, N. Y.
Filed November 9, 1945. Serial No. 491,343. PUBLISHED MARCH 26, 1946. Class 39.

422,100. PHOTOGRAPHING PROCESSING TANKS, SQUEEGES, AND PRINTING ROLLS FOR PHOTOGRAPHIC USE. POLAROID CORPORATION, Cambridge, Mass.
Filed November 13, 1945. Serial No. 491,506. PUBLISHED APRIL 9, 1946. Class 26.

422,101. CONTACT LENSES. FEINBLOOM CONTACT LENSES, INC., New York, N. Y.
Filed November 29, 1945. Serial No. 492,372. PUBLISHED APRIL 9, 1946. Class 26.

422,102. HANDBAGS. MARKAY BAGS, New York, N. Y.
Filed December 8, 1945. Serial No. 492,929. PUBLISHED APRIL 16, 1946. Class 3.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

422,103. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BENRUS WATCH COMPANY, New York, N. Y. Filed Jan. 14, 1943. Serial No. 457,906.

BENRUS

OFFICIAL WATCH OF FAMOUS AIRLINES

FOR WATCHES.
Claims use since July 1936.

422,104. (CLASS 12. CONSTRUCTION MATERIALS.) HAROLD WARP, doing business as Flex-O-Glass Manufacturing Co. and Warp Brothers, Chicago, Ill. Filed Sept. 22, 1943. Serial No. 463,590.

WYR-KRAFT

FOR LAMINATED, FLEXIBLE, METALLIC-NETTING-BUILDING PAPER.
Claims use since November 1942.

422,105. (CLASS 38. PRINTS AND PUBLICATIONS.) PUBLISHERS SYNDICATE, Chicago, Ill. Filed Feb. 18, 1944. Serial No. 467,538.

POLLY PIPPEN

FOR COMIC STRIP.
Claims use since Feb. 9, 1943.

422,106. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed July 29, 1944. Serial No. 472,739.

SOCIAL NOTES FROM ALL OVER

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING OF INANE, POINTLESS OR LUDICROUS PERSONAL ITEMS, PURPORTING TO BE SERIOUS NEWS ITEMS, WHICH HAVE APPEARED IN OTHER PUBLICATIONS.
Claims use since Mar. 17, 1928.

422,107. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 9, 1944. Serial No. 473,090.

DEPARTMENT OF AMPLIFICATION

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE PUBLICATION OF LETTERS FROM READERS WRITTEN IN LIGHT VEIN AND DIRECTED TOWARD THE PRESENTATION OF ADDITIONAL FACTS OR IMPRESSIONS RELATIVE TO PREVIOUSLY PUBLISHED ARTICLES.
Claims use since Mar. 26, 1938.

422,108. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 9, 1944. Serial No. 473,091.

DEPARTMENT OF CORRECTION

FOR HUMOROUS MAGAZINE COLUMN DEVOTED TO THE PUBLICATION OF LETTERS FROM READERS OR OTHER EXPLANATORY MATTER WRITTEN IN LIGHT VEIN AND DIRECTED TOWARD THE RECTIFICATION OF INADVERTENT ERRORS IN PREVIOUSLY-PUBLISHED ARTICLES.
Claims use since Mar. 26, 1938.

422,109. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 9, 1944. Serial No. 473,092.

DEPARTMENT OF CORRECTION AND AMPLIFICATION

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE PUBLICATION OF LETTERS FROM READERS WRITTEN IN LIGHT VEIN AND DIRECTED IN PART TOWARD THE RECTIFICATION OF INADVERTENT ERRORS IN, AND IN PART TOWARD THE PRESENTATION OF ADDITIONAL FACTS OR IMPRESSIONS RELATIVE TO, PREVIOUSLY-PUBLISHED ARTICLES.
Claims use since Apr. 2, 1938.

422,110. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 9, 1944. Serial No. 473,093.

DEPARTMENT OF CORRECTION, AMPLIFICATION, AND ABUSE

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE PUBLICATION OF LETTERS FROM READERS WRITTEN IN PETULANT VEIN AND DIRECTED TO THE RECTIFICATION OF ALLEGED MISSTATEMENTS IN PREVIOUSLY-PUBLISHED ARTICLES.
Claims use since Aug. 1, 1936.

422,111. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 9, 1944. Serial No. 473,095.

STATISTICAL DEPARTMENT

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING OF ITEMS WHICH HAVE APPEARED IN OTHER PUBLICATIONS AND WHICH CONTAIN A STATEMENT OF SERIOUS PURPORT IN WHICH ALLEGED FACTS OF INANE, PUBLICLY UNIMPORTANT, OR MEANINGLESS CHARACTER ARE SET FORTH IN NUMERICAL TERMS.
Claims use since Mar. 13, 1937.

422,112. (CLASS 19. VEHICLES.) THE ANDERSON COMPANY, Gary, Ind. Filed Nov. 23, 1944. Serial No. 476,790.

"Dead-Locker"

FOR WINDSHIELD WIPER ARMS AND WINDSHIELD WIPER BLADES.
Claims use since Sept. 5, 1944.

422,113. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) COMPANIA DE DISTILERIAS INTERNATIONALES, INC., Bayamon, P. R. Filed Dec. 16, 1944. Serial No. 477,642.

BOHIO

FOR RUM.
Claims use since Dec. 2, 1944.

422,114. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEM MANUFACTURING CO., INC., New York, N. Y. Filed Jan. 13, 1945. Serial No. 478,585.

KEM

FOR FUEL AND VACUUM PUMPS, GASOLINE FILTERS, AND PARTS THEREOF, TOOL KITS, OIL PUMPS AND GEARS FOR USE AS ACCESSORIES TO GAS ENGINES, FILES, VISES, AND PUMP MOUNTING FIXTURES.
Claims use since July 1920, except fuel pumps and parts thereof, since Jan. 3, 1930.

422,115. (CLASS 39. CLOTHING.) WRIGHT-BATCHELDER CORPORATION, Boston, Mass. Filed Jan. 17, 1945. Serial No. 478,732.

TYT-ON

FOR SHOE WELTS, INSOLES, AND SEWING RIBS FOR WELT FOOTWEAR.
Claims use since Dec. 1, 1944.

422,116. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 21, 1945. Serial No. 480,061.

HIGHER MATHEMATICS DEPARTMENT

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING FROM OTHER PUBLICATIONS OF STATEMENTS MADE WITH SERIOUS PURPORT BUT INVOLVING LUDICROUS INADVERTENT MISSTATEMENTS OF MATHEMATICAL CHARACTER OR IMPORT.
Claims use since Dec. 2, 1933.

422,117. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ASSOCIATED BEARINGS COMPANY, Kansas City, Mo. Filed Mar. 5, 1945. Serial No. 480,495.

TED BROWN
ASSOCIATED BEARINGS COMPANY
BALL & ROLLER

FOR BALL, ROLLER, AND PLAIN BEARINGS.
Claims use since May 1939.

422,118. (CLASS 39. CLOTHING.) J. EDWARDS & CO., Philadelphia, Pa. Filed Mar. 7, 1945. Serial No. 480,566.

IN CHILDREN'S SHOES
Edwards
IS THE NAME

FOR LEATHER SHOES.
Claims use since Feb. 6, 1945.

422,119. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HAROLD WARP, doing business as Flex-O-Glass Manufacturing Co. and as Warp Brothers, Chicago, Ill. Filed Mar. 9, 1945. Serial No. 480,726.

WARP'S

FOR NETTING AND SCREENING MATERIALS IN THE NATURE OF SCREEN CLOTH COMPOSED OF FILAMENTS OF NATURAL AND ARTIFICIAL RESINS AND PLASTICS.
Claims use since Jan. 11, 1943.

422,120. (CLASS 48. MALT BEVERAGES AND LIQUORS.) EMS BREWING CO., East St. Louis, Ill. Filed Mar. 24, 1945. Serial No. 481,275.

EMS

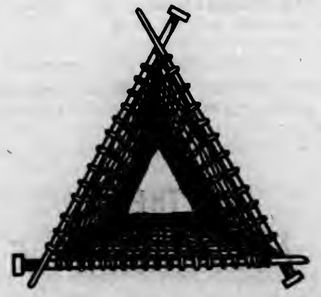
FOR BEER.
Claims use since Mar. 1, 1945.

422,121. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) POWERNAILS COMPANY, Chicago, Ill. Filed Mar. 26, 1945. Serial No. 481,339.

POWERNAILS

FOR NAILS ADHERED TOGETHER IN STICK FORM FOR USE IN NAILING MACHINES.
Claims use since Dec. 29, 1944.

422,122. (CLASS 39. CLOTHING.) PYRAMID MANUFACTURING CO., INC., New York, N. Y. Filed Apr. 4, 1945. Serial No. 481,715.



FOR KNITTED HOCKEY CAPS, HOODS AND BERETS FOR MEN, WOMEN AND CHILDREN; KNITTED BOTTOMS AND CUFFS FOR JACKETS; ANKLETS, AND WRISTLETS.
Claims use since Mar. 30, 1945.

422,123. (CLASS 39. CLOTHING.) J. EDWARDS & CO., Philadelphia, Pa. Filed Apr. 20, 1945. Serial No. 482,367.

MADE IN PHILADELPHIA
Edwards
EVER SINCE 1900

FOR LEATHER SHOES.
Claims use since Apr. 5, 1945.

422,124. (CLASS 39. CLOTHING.) WRIGHT-BATCHELDER CORPORATION, Boston, Mass. Filed May 11, 1945. Serial No. 483,251.

DRYSEAL

FOR SHOE WELTS.
Claims use since Oct. 25, 1944.

422,125. (CLASS 32. FURNITURE AND UPHOLSTERY.) FERDINAND KRAMER, New York, N. Y. Filed May 15, 1945. Serial No. 483,377.

VIZUAL

FOR MERCHANDISE DISPLAY STANDS.
Claims use since May 8, 1945.

422,126. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CONCORD RADIO CORPORATION, Chicago, Ill. Filed June 12, 1945. Serial No. 484,449.

Concord

FOR CAMERAS AND PARTS THEREOF.
Claims use since May 3, 1945.

422,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. J. NICHOLAS, doing business as S. J. Nicholas & Co., Los Angeles, Calif. Filed July 16, 1945. Serial No. 485,882.

Oriental De Luxe Incense

FOR INCENSE.
Claims use since Jan. 1, 1944.

422,128. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) INTERCONTINENTAL AUDIO-VIDEO CORPORATION, New York, N. Y. Filed Aug. 27, 1945. Serial No. 487,621.

STUD|DISC

The drawing is lined for the purpose of shading.
FOR MECHANICALLY GROOVED PHONOGRAPH RECORDS OF THE DISK TYPE.
Claims use since April 1937.

422,129. (CLASS 32. FURNITURE AND UPHOLSTERY.) NORTH BROOKLYN SUPPLY COMPANY, New York, N. Y. Filed Sept. 19, 1945. Serial No. 488,704.

NU-KOTTON

FOR COTTON FELT FOR MATTRESSES AND FURNITURE.
Claims use since Sept. 1, 1943.

422,130. (CLASS 39. CLOTHING.) THE STETSON SHOE COMPANY, INCORPORATED, Weymouth, Mass. Filed Sept. 26, 1945. Serial No. 489,020.

ARNOLD
Townstyle

FOR LEATHER BOOTS AND SHOES.
Claims use since July 1936.

422,131. (CLASS 38. PRINTS AND PUBLICATIONS.) MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 1, 1945. Serial No. 489,230.

Industrial Distribution

FOR A MONTHLY BULLETIN DEALING PRINCIPALLY WITH MILL SUPPLY DISTRIBUTION.
Claims use since Mar. 29, 1944.

422,132. (CLASS 12. CONSTRUCTION MATERIALS.) HARRY K. MILLER, doing business as H. K. Miller, Denver, Colo. Filed Oct. 3, 1945. Serial No. 489,341.

DRI-KOTE

FOR WATERPROOF PREPARATION FOR APPLICATION TO MASONRY AND LIKE STRUCTURAL WALLS, FLOORS, AND ROOFS.
Claims use since Sept. 1, 1943.

422,133. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) GREAT LAKES MINK ASSOCIATION, Salem, Wis. Filed Oct. 11, 1945. Serial No. 489,798.



The lining on the drawing is for shading only.
FOR FUR PELTS.
Claims use since Mar. 1, 1942.

422,134. (CLASS 37. PAPER AND STATIONERY.) RITEPOINT CO., St. Louis, Mo. Filed Oct. 13, 1945. Serial No. 489,923.

Ritepoint

FOR MECHANICAL PENCILS.
Claims use since March 1934.

422,135. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MEYERS MFG. CO., New York, N. Y. Filed Oct. 31, 1945. Serial No. 490,846.

Plastikaf

FOR LADIES' HANDBAGS.
Claims use since Mar. 1, 1944.

422,136. (CLASS 39. CLOTHING.) JANTZEN KNITTING MILLS, Portland, Oreg. Filed Nov. 17, 1945. Serial No. 491,761.

THE
Foundation of
Natural Beauty

FOR FOUNDATION GARMENTS, GIRDLES AND BRASSIÈRES.
Claims use since Sept. 25, 1939.

422,137. (CLASS 39. CLOTHING.) MILADY SCARFS, New York, N. Y. Filed Nov. 23, 1945. Serial No. 492,072.

TURB'N SASH

FOR SCARF AND HAT ENSEMBLES.
Claims use since Jan. 8, 1945.

422,138. (CLASS 39. CLOTHING.) A. A. SMITH & SON, INC., New York, N. Y., assignor to Sterling Mills, Illion, N. Y., a corporation of New York. Filed Dec. 1, 1945. Serial No. 492,526.

LADY HITCHCOCK

FOR INFANTS', GIRLS', AND LADIES' KNITTED BATHING SUITS, BEACH ROBES, SWEATERS, JACKETS, SPORTS COATS, SWEAT SHIRTS, POLO SHIRTS, AND KNITTED UNDERWEAR.
Claims use since Nov. 26, 1944.

422,139. (CLASS 38. PRINTS AND PUBLICATIONS.) FARM IMPLEMENT NEWS COMPANY, Chicago, Ill. Filed Dec. 8, 1945. Serial No. 492,908.

BUYER'S GUIDE
and
IMPLEMENT REPAIR
DIRECTORY

FOR PERIODICAL PUBLICATIONS.
Claims use since 1943.

422,140. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CRISTY DRY-GAS PRODUCTS, INC., Worcester, Mass. Filed Jan. 4, 1945. Serial No. 494,261.

DRYGAS

FOR LIQUID CHEMICAL ADAPTED TO BE ADDED TO GASOLINE, AND TO LUBRICATING FUEL OILS TO ACT AS A WATER SOLVENT, DEHYDRATING AGENT, ANTIFREEZE AGENT, AND TO PREVENT RUSTING AND CORROSION.
Claims use since Feb. 10, 1943.

TRADE-MARK REGISTRATIONS RENEWED

27,847. **VIYELLA.** FLANNEL IN WHICH BOTH THE WEFT AND WARP CONSIST OF YARNS OF COTTON AND WOOL CARDED TOGETHER. Registered Feb. 25, 1896. WILLIAM HOLLINS & COMPANY, (NOTTINGHAM), LIMITED. Re-renewed Feb. 25, 1946, to William Hollins & Company, Limited, Nottingham, England, a corporation of the United Kingdom. Class 42.

48,805. **S AND S.** SURGICAL BELTS AND BANDAGES. Registered Jan. 16, 1906. SHARP & SMITH, Chicago, Ill. Re-renewed Jan. 16, 1946, to Sharp & Smith, Inc., St. Louis, Mo., a corporation of Illinois. Class 44.

49,701. **ODETTE.** GLOVES. Registered Feb. 13, 1906. ABRAHAM & STRAUS. Re-renewed Feb. 13, 1946, to Abraham & Straus, Inc., Brooklyn, N. Y., a corporation of New York. Class 39.

49,706. **"FILES OF QUALITY" ETC.** FILES. Registered Feb. 13, 1906. CARVER FILE COMPANY. Re-renewed Feb. 13, 1946, to Delta File Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 23.

50,018. **"DERMATINE" AND REPRESENTATION OF A HIPPOPOTAMUS.** RUBBER SUBSTITUTES. Registered Feb. 27, 1906. DERMATINE COMPANY LIMITED, London, England, an organized company of Great Britain. Re-renewed Feb. 27, 1946. Class 1.

50,089. **REPRESENTATION OF A TRIANGLE AND FILE.** FILES AND RASPS. Registered Mar. 6, 1906. CARVER FILE COMPANY. Re-renewed Mar. 6, 1946, to Delta File Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 23.

50,283. **TREADEASY.** LEATHER BOOTS AND SHOES. Registered Mar. 6, 1906. P. W. MINOR & SON. Re-renewed Mar. 6, 1946, to P. W. Minor & Son, Inc., Batavia, N. Y., a corporation of New York. Class 39.

50,538. **"DELTA" ETC.** FILES AND RASPS. Registered Mar. 20, 1906. CARVER FILE COMPANY. Re-renewed Mar. 20, 1946, to Delta File Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 23.

50,599. **REPRESENTATION OF V-SHAPED PIECE OF METAL AND A NAIL.** HEEL-PROTECTORS. Registered Mar. 27, 1906. FRANK W. WHITCHER. Re-renewed Mar. 27, 1946, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey. Class 18.

50,685. **NO. 4711.** TOILET SOAPS. Registered Mar. 27, 1906. MÜLHENS & KROPFF, New York, N. Y. Vested in the Alien Property Custodian, Washington, D. C., and re-renewed to him Mar. 27, 1946. Class 4.

50,738. **REPRESENTATION OF A DIAMOND DESIGN.** EYELETS AND LACING-HOOKS. Registered Mar. 27, 1906. UNITED FAST COLOR EYELET COMPANY. Re-renewed Mar. 27, 1946, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey. Class 40.

50,804. **CROSBY.** ROPE-CLIPS. Registered Apr. 3, 1906. AMERICAN HOIST & DERRICK COMPANY. Re-renewed Apr. 3, 1946, to American Hoist & Derrick Co., St. Paul, Minn., a corporation of Delaware. Class 13.

50,950. **"C" IN A "V"-SHAPED FIGURE.** TAPS, DIES, REAMERS, SCREW-PLATES, DIE-STOCKS, AND TAP-WRENCHES. Registered Apr. 3, 1906. THE J. M. CARPENTER TAP & DIE CO., Pawtucket, R. I. Re-renewed Apr. 3, 1946, to Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts. Class 23.

51,119. **GILT EDGE.** BUTTERIN OR OLEOMARGARIN. Registered Apr. 3, 1906. BRAUN & FITTS, INC. Re-renewed Apr. 3, 1946, to John F. Jelke Company, Chicago, Ill., a corporation of Illinois. Class 46.

51,202. **REPRESENTATION OF A KING ON BICYCLE.** PLAYING-CARDS. Registered Apr. 10, 1906. THE UNITED STATES PLAYING CARD CO., East Norwood, Cincinnati, Ohio. Re-renewed Apr. 10, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

51,314. **KOLADINE.** LIQUID PREPARATION FOR THE TREATMENT OF HEADACHES AND SIMILAR AFFECTIONS. Registered Apr. 10, 1906. CALEB D. BRADHAM, New Bern, N. C. Re-renewed Apr. 10, 1946, to The Knox Company, Los Angeles, Calif., a copartnership. Class 6.

51,378. **"NO. 808" ETC.** PLAYING-CARDS. Registered Apr. 17, 1906. THE UNITED STATES PLAYING CARD CO., East Norwood, Cincinnati, Ohio. Re-renewed Apr. 17, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

51,414. **BEATS ALL.** LEAD-PENCILS. Registered Apr. 17, 1906. AMERICAN LEAD PENCIL CO., New York, N. Y. Re-renewed Apr. 17, 1946, to American Lead Pencil Company, Hoboken, N. J., a corporation of New York. Class 37.

51,416. **REPRESENTATION OF A SPHINX.** TURKEY-RED OIL, ALSO CALLED "SOLUBLE OIL" AND "SOLUBLE GREASE," AS USED FOR DYEING, LUBRICATING, FINISHING, AND SOFTENING PURPOSES. Registered Apr. 17, 1906. THE ARABOL MF'G CO., New York, N. Y., a corporation of New York. Re-renewed Apr. 17, 1946. Classes 4, 6, and 15.

51,471. **LEVIATHAN.** MACHINE-BELTING. Registered Apr. 17, 1906. MAIN BELTING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Apr. 17, 1946. Class 35.

51,475. **REPRESENTATION OF A HAND HOLDING 13 CARDS.** PLAYING-CARDS. Registered Apr. 17, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed Apr. 17, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

51,622. **"SCHENCK'S" ETC. AND DESIGN.** MEDICINAL, RESTORATIVE, AND REGULATIVE COMPOUNDS. Registered Apr. 17, 1906. JOSEPH H. SCHENCK, Philadelphia, Pa. Re-renewed Apr. 17, 1946, to Plough, Inc., Memphis, Tenn., a corporation of Delaware. Class 6.

51,623. **STERLING.** COOKING STOVES AND RANGES, HEATING-STOVES, AND REPAIRS AND PARTS THEREFOR. Registered Apr. 17, 1906. SILL STOVE WORKS. Re-renewed Apr. 17, 1946, to Philip Will, Rochester, N. Y. Class 34.

51,751. **LEAGUE.** PLAYING-CARDS. Registered Apr. 24, 1906. THE UNITED STATES PLAYING CARD CO., East Norwood, Cincinnati, Ohio. Re-renewed Apr. 24, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

51,755. **NEW FAN.** PLAYING-CARDS. Registered Apr. 24, 1906. THE UNITED STATES PLAYING CARD CO. Re-renewed Apr. 24, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

51,954. **WILLEY'S.** PAINTS AND COLORS. Registered Apr. 24, 1906. C. A. WILLEY CO., New York, N. Y. Re-renewed Apr. 24, 1946, to C. A. Willey Company, Long Island City, N. Y., a corporation of New York. Class 16.

51,998. **REPRESENTATION OF SECTIONS OF TWO TURBINE-BLADE RINGS.** TURBO-COMPRESSORS AND PUMPS. Registered May 1, 1906. CHARLES ALGERNON PARSONS. Re-renewed May 1, 1946, to C. A. Parsons & Co. Ltd., Newcastle-on-Tyne, England, an organized company of Great Britain. Class 23.

51,999. **REPRESENTATION OF SECTIONS OF TWO TURBINE-BLADE RINGS.** STEAM-TURBINES OF ALL KINDS AND PARTS OF SUCH TURBINES, INCLUDING TURBINES FOR STEAM-PROPELLED VESSELS. Registered May 1, 1906. CHARLES ALGERNON PARSONS. Re-renewed May 1, 1946, to C. A. Parsons & Co. Ltd., Newcastle-on-Tyne, England, an organized company of Great Britain. Class 23.

52,014. **REPRESENTATION OF TWO DOGS ETC.** PLAYING CARDS. Registered May 1, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed May 1, 1946, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 22.

52,026. **"BICYCLE" ETC.** PLAYING-CARDS. Registered May 1, 1906. THE UNITED STATES PLAYING CARD CO., East Norwood, Cincinnati, Ohio. Re-renewed May 1, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

52,105. **McCRAY.** REFRIGERATORS. Registered May 1, 1906. MCCRAY REFRIGERATOR CO., Kendallville, Ind., a corporation of Indiana. Re-renewed May 1, 1946. Class 34.

52,552. **97.** PLAYING-CARDS. Registered May 15, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed May 15, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

52,659. **EXCELSIOR.** SEWING-MACHINE NEEDLES. Registered May 15, 1906. EXCELSIOR NEEDLE COMPANY. Re-renewed May 15, 1946, to The Torrington Company, Torrington, Conn., a corporation of Maine. Class 23.

52,660. **"EXCELSIOR" ETC.** SEWING-MACHINE NEEDLES. Registered May 15, 1906. EXCELSIOR NEEDLE COMPANY. Re-renewed May 15, 1946, to The Torrington Company, Torrington, Conn., a corporation of Maine. Class 23.

52,903. **REPRESENTATION OF A COLT.** PISTOLS. Registered May 22, 1906. COLT'S PATENT FIRE ARMS MANUFACTURING COMPANY, Hartford, Conn., a corporation of Connecticut. Re-renewed May 22, 1946. Class 9.

52,904. **"COLT" ETC.** PISTOLS. Registered May 22, 1906. COLT'S PATENT FIRE ARMS MANUFACTURING COMPANY, Hartford, Conn., a corporation of Connecticut. Re-renewed May 22, 1946. Class 9.

53,089. **FIVE HUNDRED.** PLAYING-CARDS. Registered May 22, 1906. THE UNITED STATES PLAYING CARD CO. Re-renewed May 22, 1946, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 22.

53,131. **ANGEL BACKS.** PLAYING-CARDS. Registered May 29, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed May 29, 1946, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 22.

53,500. **GOLD MEDAL.** PICKLES. Registered June 5, 1906. SQUIRE DINGEE COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed June 5, 1946. Class 46.

53,544. **<L>.** NEEDLES. Registered June 5, 1906. EXCELSIOR NEEDLE COMPANY. Re-renewed June 5, 1946, to The Torrington Company, Torrington, Conn., a corporation of Maine. Classes 23 and 40.

54,103. **PIONEER.** CHILDREN'S EXPRESS-WAGONS, PATROL-WAGONS, HOOK-AND-LADDER WAGONS, COASTER-WAGONS, AND TOY CARTS. Registered June 19, 1906. GENDRON WHEEL CO. Re-renewed June 19, 1946, to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio. Class 22.

54,116. **HAFFENREFFER & CO. MALT WINE.** MALT WINE. Registered June 19, 1906. NEW ENGLAND BREWING COMPANY. Re-renewed June 19, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

54,129. **DELTA.** FILES AND RASPS. Registered June 19, 1906. CARVER FILE COMPANY. Re-renewed June 19, 1946, to Delta File Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 23.

54,167. **REPRESENTATION OF A BULL'S HEAD.** CANNED OYSTERS. Registered June 19, 1906. GIBBS PRESERVING COMPANY OF BALTIMORE CITY. Re-renewed June 19, 1946, to Gibbs & Company, Incorporated, Baltimore, Md., a corporation of Maryland. Class 46.

54,196. **"B" ETC. AND AN OVAL DESIGN.** ALE. Registered June 19, 1906. NEW ENGLAND BREWING COMPANY. Re-renewed June 19, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

54,415. **IVORY.** SOAP FOR TOILET, LAUNDRY, AND GENERAL USE. Registered June 26, 1906. THE PROCTER & GAMBLE CO., Ivorydale and Cincinnati, Ohio, and Kansas City, Kans. Re-renewed June 26, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

54,435. **"B" ETC. AND AN OVAL DESIGN.** ALE. Registered June 26, 1906. NEW ENGLAND BREWING COMPANY. Re-renewed June 26, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

54,451. **NO. 42.** PLAYING-CARDS. Registered June 26, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed June 26, 1946, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 22.

54,463. **DENTYNE.** CHEWING GUM. Registered June 26, 1906. BON-BON COMPANY, New York, N. Y. Re-renewed June 26, 1946, to American Chicle Company, Long Island City, N. Y., a corporation of New Jersey. Class 46.

54,506. **KIS ME.** CHEWING-GUM. Registered June 26, 1906. AMERICAN CHICLE CO., New York, N. Y. Re-renewed June 26, 1946, to American Chicle Company, Long Island City, N. Y., a corporation of New Jersey. Class 46.

54,722. **REO.** AUTOMOBILE VEHICLES. Registered June 26, 1906. REO CAR CO. Re-renewed June 26, 1946, to Reo Motors, Inc., Lansing, Mich., a corporation of Michigan. Class 19.

54,753. **THE BRASSCRAFTERS.** HOLDERS FOR SOAP, SPONGES, BRUSHES, TOWELS, COMBS, TUMBLERS, AND PAPER-HOLDERS. Registered June 26, 1906. J. P. EUSTIS MFG. CO., Portland, Maine. Re-renewed June 26, 1946, to Burnitol Manufacturing Co., Boston, Mass., a corporation of Maine. Class 13.

54,806. **ARABOL.** TURKEY-RED OIL, ALSO CALLED "SOLUBLE OIL" AND "SOLUBLE GREASE", AS USED FOR DYEING, LUBRICATING, FINISHING, AND SOFTENING PURPOSES. Registered July 31, 1906. THE ARABOL MF'G CO., New York, N. Y., a corporation of New York. Re-renewed July 31, 1946. Classes 4–6–15.

54,856. **THE POCKET LIST OF RAILROAD OFFICIALS.** SERIAL PUBLICATIONS RELATING TO THE BUSINESS OF RAILROADS AND CONTAINING INFORMATION WITH RESPECT THERETO. Registered July 31, 1906. THE RAILWAY EQUIPMENT AND PUBLISHING CO., New York, N. Y., a corporation of New Jersey. Re-renewed July 31, 1946. Class 38.

54,918. **"STANDARD" ETC.** KNITTING-MACHINE NEEDLES. Registered Aug. 7, 1906. EXCELSIOR NEEDLE COMPANY. Re-renewed Aug. 7, 1946, to The Torrington Company, Torrington, Conn., a corporation of Maine. Class 23.

54,949. **<E>.** SPOKES AND NIPPLES FOR WHEELS OF BICYCLES AND AUTOMOBILES AND ALSO FOR OTHER WHEELS. Registered Aug. 7, 1906. THE STANDARD COMPANY. Re-renewed Aug. 7, 1946, to The Torrington Company, Torrington, Conn., a corporation of Maine. Class 19.

54,951. **VICTOR.** ROUND-SHANK SCREW-DRIVERS. Registered Aug. 7, 1906. STANLEY RULE & LEVEL COMPANY. Re-renewed Aug. 7, 1946, to The Stanley Works, New Britain, Conn., a corporation of Connecticut. Class 23.

54,954. **KNOCK-ABOUT.** SHOTGUNS. Registered Aug. 7, 1906. VON LENGERKE & DETMOLD. Re-renewed Aug. 7, 1946, to Abercrombie & Fitch Company, New York, N. Y., a corporation of New York. Class 9.

54,971. **ONGOLINE.** TOILET PREPARATIONS FOR REMOVING STAINS FROM THE SKIN AND FINGER-NAILS AND FOR BLEACHING AND MANICURING THE NAILS. Registered Aug. 7, 1906. DR. J. PARKER PRAY COMPANY, LIMITED, New York, N. Y. Re-renewed Aug. 7, 1946, to J. Parker Pray, Inc., Stamford, Conn., a corporation of New York. Class 6.

55,032. **PRIEST'S.** HAIR AND WOOL CLIPPERS AND THEIR PARTS. Registered Aug. 7, 1906. AMERICAN SHEARER M'F'G CO., Nashua, N. H., a corporation of New Hampshire. Re-renewed Aug. 7, 1946. Class 23.

195,303. **PREMAX.** COASTER WAGONS. Registered Feb. 24, 1925. NIAGARA METAL STAMPING CORPORATION. Renewed Feb. 24, 1945, to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York. Class 22.

201,885. **"GOLD MEDAL" AND DRAWING.** OLIVE OIL. Registered Aug. 11, 1925. MAGGIOROS & ROUSOS. Renewed Aug. 11, 1945, to Rousos Brothers, Rochester, N. Y., a partnership. Class 46.

205,932. **"S C" ETC. AND DESIGN.** ACCOUNT FORMS, BOOKKEEPING BLANKS, COUNTER CHECK BOOKS, ORDER BOOKS, RESTAURANT FORMS, AND OTHER MANIFOLDING FORMS AND BOOKS. Registered Nov. 17, 1925. THE APPLEFORD COUNTER CHECK BOOK CO., LIMITED. Renewed Nov. 17, 1945, to Appleford Paper Products Limited, Hamilton, Ontario, Canada, an incorporated company of the Province of Ontario. Class 37.

207,522. **"BLINDCRAFT" AND DRAWING.** ALL TYPES OF BROOMS USING BROOM CORN—NAMELY, JANITOR'S BROOMS, PARLOR BROOMS, MILL BROOMS, HEARTH BROOMS, HOTEL BROOMS, WHISK BROOMS; BRUSHES—NAMELY, CLOTHES BRUSHES, HAIR BRUSHES, NAIL BRUSHES, AND SCRUB BRUSHES, AND DUSTERS—NAMELY, STRING MOPS. Registered Jan. 5, 1926. THE SAN FRANCISCO ASSOCIATION FOR THE BLIND, San Francisco, Calif., a corporation of California. Renewed Jan. 5, 1946. Class 29.

208,668. **RED COLOR APPLIED TO THE TOP OF A MOP STICK.** MOPSTICKS. Registered Feb. 9, 1926. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill. Renewed Feb. 9, 1946, to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 29.

208,793. **THESCO.** NONALCOHOLIC MALTLESS BEVERAGES AND EXTRACTS AND FLAVORS FOR MAKING THE SAME. Registered Feb. 9, 1926. THEALL & PILE, INC., New York, N. Y., a corporation of New York. Renewed Feb. 9, 1946. Class 45.

209,704. **KILLDEE.** FLORIDA CITROUS FRUIT IN NATURAL STATE AS PICKED FROM TREES. Registered Mar. 2, 1926. R. D. Keene & Co., Eustis, Fla. Renewed Mar. 2, 1946, to R. D. Keene, Inc., Winter Garden, Fla., a corporation of Florida. Class 46.

209,734. **GLITTERINE.** LACQUER. Registered Mar. 2, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Mar. 2, 1946. Class 16.

209,843. **FLIGHT.** GASOLINE. Registered Mar. 2, 1926. STANDARD OIL COMPANY, San Francisco, Calif. Renewed Mar. 2, 1946, to Standard Oil Company of California, San Francisco, Calif. and Wilmington, Del., a corporation of Delaware. Class 15.

209,873. **WYBOCO.** COMPOUNDS FOR USE IN BOILERS FOR STEAM-GENERATING PLANTS, FOR RADIATORS OR AUTOMOBILES. Registered Mar. 2, 1926. WYOMING BOILER COMPOUND CO., Douglas, Wyo. Renewed Mar. 2, 1946, to Wyoming Boiler Compound Co., San Pedro, Calif., a corporation of Wyoming. Class 6.

209,907. **"THE K. C. DAVIS" ETC.** REMEDY FOR PURIFYING BLOOD, PILLS FOR BACKACHE AND GLAND TROUBLE, LINIMENT; SALVES FOR BURNS AND SORES, COUGHS, AND SORE THROAT, CROUP, COLDS IN THE HEAD AND CHEST, AND ASTHMA. Registered Mar. 2, 1926. KINS C. DAVIS, Douglas, Ga. Renewed Mar. 2, 1946, to Kins C. Davis, Valdosta, Ga. Class 6.

209,912. **"PINTURAS PREPARADAS" ETC. AND DESIGN.** PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered Mar. 2, 1926. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed Mar. 2, 1946. Class 16.

209,924. **"NORTHERN PACIFIC" AND DESIGN.** BOOKLETS, CIRCULARS, AND PAMPHLETS. Registered Mar. 2, 1926. NORTHERN PACIFIC RAILWAY COMPANY, St. Paul, Minn., a corporation of Wisconsin. Renewed Mar. 2, 1946. Class 38.

210,006. **HUDSONVALE.** NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. Registered Mar. 9, 1926. HUDSON VALLEY PURE FOOD COMPANY, INC., Highland, N. Y., a corporation of Massachusetts. Renewed Mar. 9, 1946. Class 45.

210,121. **MARQUISE.** COTTON PIECE GOODS COMPRISING COTTON VENETIANS. Registered Mar. 9, 1926. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 9, 1946. Class 42.

210,160. **HEATHERBRIGGAN.** MEN'S AND BOYS' HOUSE COATS, WAISTCOATS, SMOKING JACKETS, OVERCOATS, HUNTING SUITS, SACK SUITS, NORFOLK SUITS, AND TROUSERS, WOMEN'S, GIRLS' AND MISSES' DRESSES, TAILORED SUITS, SPORT COATS AND SUITS, KNITTED AND TEXTILE NEGLIGEES, AND SKIRTS; AND MEN'S, WOMEN'S, MISSES', AND BOYS' SWEATERS, MUFFLERS, HOSIERY, GOLF SUITS, RIDING SUITS, WALKING SUITS, BLOUSES, JUMPERS, KNICKERBOCKERS, AND BATH ROBES. Registered Mar. 9, 1926. FRANKLIN SIMON & CO., INC., New York, N. Y., a corporation of New York. Renewed Mar. 9, 1946. Class 39.

210,183. **"MA BROWN'S" ETC.** PICKLES. Registered Mar. 9, 1926. SQUIRE DINGEE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Mar. 9, 1946. Class 46.

210,211. **BEAUTÉBOX.** PLAIN AND DECORATED METALLIC ART BOXES AND CONTAINERS OF VARIOUS SHAPES, SIZES, AND FORMS, AND OTHER PAPER AND CARDBOARD BOXES, PLAIN OR DECORATED, OF VARIOUS SHAPES, SIZES, AND FORMS SOLD EMPTY BY THE APPLICANT TO BE USED BY THE PURCHASERS FOR CONTAINING CANDY, TOBACCO, DRY GOODS, ETC. Registered Mar. 9, 1926. BEAUTÉBOX, INC. Renewed Mar. 9, 1946, to American Can Company, New York, N. Y., a corporation of New Jersey. Class 2.

210,217. **"SPUDDIES" AND DESIGN.** SHOE-STRING OR FRENCH-FRIED POTATOES. Registered Mar. 9, 1926. COLORADO POTATO FLAKE AND MANUFACTURING COMPANY, Denver, Colo. Renewed Mar. 9, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

210,391. **LOCDROP.** ANNUNCIATORS. Registered Mar. 16, 1926. ELEVATOR SUPPLIES CO., INC., Hoboken, N. J. Renewed Mar. 16, 1946, to Elevator Supplies Company, Inc., Perth Amboy, N. J., a corporation of New Jersey. Class 21.

210,429. **"DIXIE TIA RAP" AND DESIGN.** WRAPPING PAPER. Registered Mar. 16, 1926. THE ALBEMARLE PAPER MANUFACTURING COMPANY, Richmond, Va., a corporation of Virginia. Renewed Mar. 16, 1946. Class 37.

210,674. **"BLINDCRAFT".** BASKETS MADE OF REED, RATTAN, HEMP, WICKER, AND GRASS. Registered Mar. 23, 1926. THE SAN FRANCISCO ASSOCIATION FOR THE BLIND, San Francisco, Calif., a corporation of California. Renewed Mar. 23, 1946. Class 2.

210,819. **"BOSS" AND DESIGN.** GLOVES AND MITTENS OF LEATHER, FABRRIC, AND A COMBINATION OF LEATHER AND FABRIC. Registered Mar. 23, 1926. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Renewed Mar. 23, 1946, to The Boss Manufacturing Company, Kewanee, Ill., a corporation of Illinois. Class 39.

210,862. **JACK FROST.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered Mar. 23, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Mar. 23, 1946. Class 16.

210,863. **SATTINA.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered Mar. 23, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Mar. 23, 1946. Class 16.

210,931. **"STYLE QUEEN" AND DRAWING.** WOMEN'S AND MISSES' DRESSES, SKIRTS, WAISTS, MIDDIES, HOUSE DRESSES, APRONS, BATH ROBES, KNICKERS, AND LUMBER JACKS; CHILDREN'S DRESSES; WOMEN'S AND CHILDREN'S TRIMMED AND UNTRIMMED HATS. Registered Mar. 30, 1926. CHICAGO MAIL ORDER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Mar. 30, 1946. Class 39.

211,078. **"M J" ETC.** SALVE FOR USE IN THE TREATMENT OF BURNS, SCALDS, BRUISES, BOILS, CUTS, AND INFECTIONS. Registered Apr. 6, 1926. ELIZABETH O'CONNOR, Springville, N. Y. Renewed Apr. 6, 1946, to Elizabeth O'Connor, Buffalo, N. Y. Class 6.

211,219. **"THE ARROW" ETC. AND DESIGN.** COTTON DRIERS FOR PAPER MAKERS, NOT IN THE PIECE. Registered Apr. 6, 1926. JOSEPH PORRITT & SONS LIMITED, Manchester and Helmshore near Manchester, England. Renewed Apr. 6, 1946, to Joseph Porritt & Sons Limited, Helmshore, Manchester, England, a corporation of Great Britain. Class 1.

211,221. **BLINDCRAFT.** REED AND RATTAN FURNITURE, COMPRISING CHAIRS, SETTEES, TABLES, JARDINIÉRES, BASES, STANDARDS, AND PEDESTALS FOR LAMPS, SHADES FOR LAMPS, COUCHES, STANDS, SMOKING SETS, SHOE STANDS, HAT RACKS, FERN BOXES, AND STOOLS. Registered Apr. 6, 1926. THE SAN FRANCISO ASSOCIATION FOR THE BLIND, San Francisco, Calif., a corporation of California. Renewed Apr. 6, 1946. Class 32.

211,463. **"DIAMOND" AND DESIGN.** WHEAT FLOUR. Registered Apr. 13, 1926. RUSSELL-MILLER MILLING CO. Renewed Apr. 13, 1946, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

211,601. **SIMON PURE.** MATTRESSES. Registered Apr. 13, 1926. SIMON MATTRESS MFG. CO., San Francisco, Calif., a corporation of California. Renewed Apr. 13, 1946. Class 32.

211,878. **CONSOL.** ELECTRIC BATTERIES. Registered Apr. 20, 1926. CONSOLIDATED BATTERY COMPANY, Buffalo, N. Y., and Philadelphia, Pa. Renewed Apr. 20, 1946, to National Battery Company, St. Paul, Minn., a corporation of Delaware. Class 21.

212,033. **"BLUE GOOSE" ETC.** FRESH CITROUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH BERRIES, FRESH GRAPES, WATERMELONS, CANTALOUPES, CASABA MELONS, HONEYDEW MELONS, PINEAPPLES, CANNED FRUITS, FRESH FIGS AND DATES, AND FRESH VEGETABLES. Registered Apr. 27, 1926. AMERICAN FRUIT GROWERS INCORPORATED, Wilmington, Del. and Pittsburgh, Pa. Renewed Apr. 27, 1946, to American Fruit Growers Incorporated, Pittsburgh, Pa., a corporation of Delaware. Class 46.

212,064. **YOSEMITE.** ROLLED ROOFING AND ASPHALT AND SLATE SURFACED SHINGLES. Registered Apr. 27, 1926. PIONEER PAPER COMPANY, Los Angeles, Calif. Renewed Apr. 27, 1946, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Class 12.

212,276. **"GRESHAM" AND DESIGN.** CANNED BERRIES. Registered Apr. 27, 1926. THE BERRY GROWERS PACKING CO. Renewed Apr. 27, 1946, to Gresham Berry Growers, Gresham, Oreg., a corporation of Oregon. Class 46.

212,300. **CONSERVATEEN.** WOVEN, KNITTED, AND NETTED TEXTILE FABRICS IN THE PIECE MADE OF SILK, ARTIFICIAL SILK, SATEEN, MOHAIR, FIBER, HAIRCLOTH, JUTE, LINEN, COTTON, OR VARIOUS COMBINATIONS THEREOF. Registered Apr. 27, 1926. A. HOENIGSBERGER. Renewed Apr. 27, 1946, to A. Hoenigsberger, Chicago, Ill., a firm. Class 42.

212,318. **MAXIM.** BINOCULARS, INCLUDING TELESCOPES, OPERA, FIELD, AND MARINE GLASSES. Registered Apr. 27, 1926. SUSSFELD, LORSCH & SCHIMMEL. Renewed Apr. 27, 1946, to Selsi Company, Inc., New York, N. Y., a corporation of New York. Class 26.

212,651. **POWERFUL.** WHEAT FLOUR. Registered May 11, 1926. RUSSELL-MILLER MILLING CO. Renewed May 11, 1946, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

212,703. **REPRESENTATION OF KEYSTONE AND PISTON.** PISTONS. Registered May 11, 1926. PERMITE PISTON CO. Renewed May 11, 1946, to Aluminum Industries, Inc., Cincinnati, Ohio, a corporation of Ohio. Class 23.

212,723. **TEKOE.** WHEAT FLOUR. Registered May 11, 1926. RUSSELL-MILLER MILLING CO. Renewed May 11, 1946, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

213,001. **SUNBRITE.** SATEENS AND VENETIANS, BEING COTTON PIECE GOODS. Registered May 18, 1926. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed May 18, 1946. Class 42.

213,047. **"BRILLO" ETC. AND DESIGN.** SOAPS, CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTHS OF ABRADANT NATURE, FOR REMOVING FOREIGN MATTER FROM METAL AND OTHER SURFACES. Registered May 18, 1926. BRILLO MANUFACTURING COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed May 18, 1946. Class 4.

213,215. **ARAPROOF.** LIQUID AND DRY ADHESIVES HAVING A CEREAL BASE. Registered May 25, 1926. THE ARABOL MF'G CO., New York, N. Y., a corporation of New York. Renewed May 25, 1946. Class 5.

213,217. **MEAT-WICH SPREAD.** CANNED COMMINUTED MEATS, SANDWICH SPREAD, AND COMMINUTED FORM OF FOOD PRODUCTS PREPARED FROM MEATS FLAVORED WITH VEGETABLES AND SPICES. Registered May 25, 1926. LIBBY, MCNEILL & LIBBY, Chicago, Ill., a corporation of Maine. Renewed May 25, 1946. Class 46.

213,242. **"PICKWICK" ETC. AND DESIGN.** CEREAL MALT BEVERAGE. Registered May 25, 1926. NEW ENGLAND BREWING CO., doing business as Haffenreffer & Co. Renewed May 25, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

213,402. **HAFFENREFFER & CO.** CEREAL MALT BEVERAGE. Registered May 25, 1926. NEW ENGLAND BREWING CO., doing business as Haffenreffer & Co. Renewed May 25, 1946, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts. Class 48.

213,493. **OCEAN MIST.** CANNED SALMON. Registered June 1, 1926. ROUNDUP GROCERY COMPANY, Spokane, Wash., a corporation of Washington. Renewed June 1, 1946. Class 46.

213,726. **"FLY KIL" ETC. AND DESIGN.** INSECTICIDE SPRAY. Registered June 1, 1926. STUART PERKINS, North Kansas City, Mo. Renewed June 1, 1946, to Stanco Incorporated, New York, N. Y., a corporation of Delaware. Class 6.

213,916. **OBELISK.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered June 8, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed June 8, 1946. Class 16.

213,917. **ISIS.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered June 8, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed June 8, 1946. Class 16.

213,918. **RAMESIAN.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered June 8, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed June 8, 1946. Class 16.

213,936. **COLAS.** BITUMINOUS EMULSIONS FOR USE AS A BINDING MEDIUM IN ROAD MAKING, BRIQUETTING, AND SIMILAR MANUFACTURES. Registered June 8, 1926. ASPHALT COLD MIX LIMITED, London, England, assignor to Asphalt Cold Mix (1925) Limited. Renewed June 8, 1946, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Class 12.

214,020. **"TAM" AND DESIGN.** ZIRCONIUM AND TITANIUM COMPOUNDS EMPLOYED AS PIGMENTS IN VITREOUS COATINGS AND ALSO AS REFRACTORIES, AND PARTICULARLY AS OPAQUING AGENTS IN THE MANUFACTURE OF ENAMELS AND GLAZES. Registered June 8, 1926. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y. Renewed June 8, 1946, to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine. Class 6.

214,076. **"SPIC AND SPAN" ETC.** WASHING AND CLEANING COMPOUND IN CRYSTAL FORM WITH INCIDENTAL WATER-SOFTENING PROPERTIES. Registered June 15, 1926. WHISTLE BOTTLING COMPANY, Johnsonburg, Pa. Renewed June 15, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

214,115. **CREAM SUDS.** SOAP. Registered June 15, 1926. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed June 15, 1946. Class 4.

214,123. **ELCO.** LAYING MASH WITH BUTTERMILK, RICE BRAN, RICE POLISH, RICE. Registered June 15, 1926. EL CAMPO RICE MILLING COMPANY, El Campo, Tex., a corporation of Texas. Renewed June 15, 1946. Class 46.

214,125. **BALTIC.** WHEAT FLOUR. Registered June 15, 1926. RUSSELL-MILLER MILLING CO. Renewed June 15, 1946, to Russell-Miller Milling Co., Minneapolis, Minn., a corporation of Delaware. Class 46.

214,145. **YOUR BABY AND MINE.** TITLE FOR NEWSPAPER ITEMS. Registered June 15, 1926. THE REGISTER AND TRIBUNE COMPANY, Des Moines, Iowa, a corporation of Iowa. Renewed June 15, 1946. Class 38.

214,165. **COIN-TAINER.** PURSES AND POCKETBOOKS. Registered June 15, 1926. BUXTON, INCORPORATED, Springfield, Mass., a corporation of Massachusetts. Renewed June 15, 1946. Class 3.

214,189. **MONEY-TAINER.** PURSES AND POCKETBOOKS. Registered June 15, 1926. BUXTON, INCORPORATED, Springfield, Mass., a corporation of Massachusetts. Renewed June 15, 1946. Class 3.

214,206. **"AK" ETC.** LEAF TOBACCO. Registered June 15, 1926. THE TOBACCO REHANDLING CO. LTD., Louisville, Ky., a corporation of Kentucky. Renewed June 15, 1946. Class 17.

214,222. **"ROSEMARY" ETC. AND DESIGN.** POWDER PUFFS. Registered June 15, 1926. MAURICE LEVY, New York, N. Y. Renewed June 15, 1946., to Hygienol Company, Inc., New Rochelle, N. Y., a corporation of New York. Class 29.

214,252. **ILLINOIS STATE JOURNAL.** DAILY NEWSPAPER. Registered June 15, 1926. ILLINOIS STATE JOURNAL, Springfield, Ill. Renewed June 15, 1946, to The Copley Press, Inc., Aurora, Ill., a corporation of Illinois. Class 38.

214,254. **POPPY.** POWDER PUFFS. Registered June 15, 1926. MAURICE LEVY, New York, N. Y. Renewed June 15, 1946, to Hygienol Company, Inc., New Rochelle, N. Y., a corporation of New York. Class 29.

214,348. **WHITE STAR.** COAL. Registered June 22, 1926. THE S. J. PATTERSON COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed June 22, 1946. Class 1.

214,377. **MULTICHROME.** COMPOSITION SHINGLES. Registered June 22, 1926. THE RICHARDSON COMPANY, Lockland, Ohio. Renewed June 22, 1946, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Class 12.

214,396. **SPHYNX.** LACQUERS, LACQUER ENAMELS, AND LACQUER THINNERS. Registered June 22, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed June 22, 1946. Class 16.

214,411. **LOHENGRIN.** WEDDING RINGS. Registered June 22, 1926. BLANCARD & CO., INC., Newark, N. J. Renewed June 22, 1946, to Blancard & Co., Inc., New York, N. Y., a corporation of New York. Class 28.

214,412. **REPRESENTATION OF A LION.** FINGER RINGS. Registered June 22, 1926. BLANCARD & CO., INC., Newark, N. J. Renewed June 22, 1946, to Blancard & Co., Inc., New York, N. Y., a corporation of New York. Class 28.

214,430. **CHAT-A-FREE.** LUBRICATING OIL TO BE USED TO ELIMINATE THE CHATTER IN AUTOMOBILES. Registered June 22, 1926. SUN OIL COMPANY, Philadelphia, Pa., a corporation of New Jersey. Renewed June 22, 1946. Class 15.

214,583. **SAFE.** LOCKS AND LATCHES AND KEYS THEREFOR. Registered June 29, 1926. LLOYD B. HERSHEY, doing business as The Safe Padlock and Hardware Company. Renewed June 29, 1946, to Safe Padlock & Hardware Company, Lancaster, Pa., a corporation of Pennsylvania. Class 25.

214,605. **DU-O-TAN.** LEATHER BELTING AND RAWHIDE CUT LACE FOR LEATHER BELTING. Registered June 29, 1926. WHITING LEATHER & BELTING CO., INC., Long Island City, N. Y. Renewed June 29, 1946, to Whiting Leather & Belting Co., Incorporated, New York, N. Y., a corporation of New York. Class 35.

214,637. **SUMMIT.** FRESH DECIDUOUS FRUITS. Registered June 29, 1926. COLFAX FRUIT GROWERS ASSOCIATION, Colfax, Calif., a corporation of California. Renewed June 29, 1946. Class 46.

214,776. **RAYO.** FRESH GRAPES. Registered July 6, 1926. J. D. MARTIN, Fresno, Calif. Renewed July 6, 1946. Class 46.

214,880. **MT. IDA.** OLIVES AND OLIVE OIL IN TIN AND GLASS. Registered July 6, 1926. OLIVE PRODUCTS COMPANY, Oroville, Calif., a corporation of California. Renewed July 6, 1946. Class 46.

214,883. **"BIDDY'S BEST" ETC.** CHICKEN FEED, AS FOLLOWS: LAYING MASH, GROWING MASH, SCRATCH FEED, AND BABY-CHICK FEED. Registered July 6, 1926. GEIS-PRICE ELEVATOR CO., INC. Renewed July 6, 1946, to Geis Mills, Enid, Okla., a partnership. Class 46.

214,886. **PHILCUFF.** MEN'S DRESS AND NEGLIGEE SHIRTS AND CUFFS. Registered July 6, 1926. PHILLIPS-JONES CORPORATION, New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 39.

214,910. **"NATIONAL" ETC.** CLOTH GLOVES WITH LEATHER PALMS. Registered July 6, 1926. THE NATIONAL GLOVE COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed July 6, 1946. Class 39.

214,912. **"NATIONAL" ETC.** LEATHER GLOVES AND COTTON GLOVES WITH LEATHER PALMS. Registered July 6, 1926. THE NATIONAL GLOVE COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed July 6, 1946. Class 39.

214,967. **DRI-WELL.** PERSPIRATION DEODORANT AND REMEDY FOR STOPPING OR CHECKING PERSPIRATION. Registered July 6, 1926. BENJAMIN T. GALE, doing business as The Dri-Well Co., St. Paul, Minn. Renewed July 6, 1946, to Monroe Chemical Company, Quincy, Ill., a corporation of Maryland. Class 6.

214,992. **THE HOUR-GLASS OF FASHION.** MONTHLY PUBLICATION. Registered July 6, 1926. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 38.

215,081. **POND'S.** COLD CREAM, VANISHING CREAM, POWDER COMPACTS, ROUGE COMPACTS, FACE POWDER, ANTISEPTIC CREAM, TOOTH PASTE, TALCUM POWDER, OINTMENT FOR ROUGH SKIN, BURNS, ETC. AND ALL AILMENTS FOR WHICH AN OINTMENT IS APPLICABLE, AND EXTRACT USED AS A GARGLE, EYEWASH, FOR CUTS AND BRUISES AND OTHER AILMENTS. Registered July 13, 1926. POND'S EXTRACT COMPANY, New York, N. Y., a corporation of Delaware. Renewed July 13, 1946. Class 6.

215,085. **UNITEX.** OPTICAL LENSES. Registered July 13, 1926. THE UNITEX COMPANY, INCORPORATED. Renewed July 13, 1946, to Richard L. McDanal, Denver, Colo. Class 26.

215,088. **SUPER.** COAL. Registered July 13, 1926. CHARLES N. BLANCHARD, Binghamton, N. Y. Renewed July 13, 1946, to Bell & Zoller Coal Company, Chicago, Ill., a corporation of Illinois. Class 1.

215,151. **"RUB-NO-MORE" ETC.** WASHING POWDER, SOAP FLAKES, AND NAPHTHA SOAP. Registered July 13, 1926. THE RUB-NO-MORE COMPANY, Fort Wayne, Ind. Renewed July 13, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

215,190. **"TIGER" ETC.** LEAF TOBACCO. Registered July 13, 1926. THE TOBACCO REHANDLING CO. LTD., Louisville, Ky., a corporation of Kentucky. Renewed July 13, 1946. Class 17.

215,227. **LIBERTY.** FENCING—VIZ, FARM AND POULTRY FENCE AND ORNAMENTAL FENCE MADE OF WIRE AND IRON AND GATES THEREFOR OF THE SAME MATERIALS. Registered July 13, 1926. KOKOMO STEEL & WIRE CO. Renewed July 13, 1946, to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana. Class 13.

215,228. **CHAMPION.** FENCING—VIZ, FARM AND POULTRY FENCE AND ORNAMENTAL FENCE MADE OF WIRE AND IRON AND GATES THEREFOR OF THE SAME MATERIALS. Registered July 13, 1926. KOKOMO STEEL & WIRE CO. Renewed July 13, 1946, to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana. Class 13.

215,229. **VICTORY.** FENCING—VIZ, FARM AND POULTRY FENCE AND ORNAMENTAL FENCE MADE OF WIRE AND IRON AND GATES THEREFOR OF THE SAME MATERIALS. Registered July 13, 1926. KOKOMO STEEL & WIRE CO. Renewed July 13, 1946, to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana. Class 13.

215,230. **PIONEER.** FENCING—VIZ, FARM AND POULTRY FENCE AND ORNAMENTAL FENCE MADE OF WIRE AND IRON AND GATES THEREFOR OF THE SAME MATERIALS. Registered July 13, 1926. KOKOMO STEEL & WIRE CO. Renewed July 13, 1946, to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana. Class 13.

215,231. **LIBERTY JUNIOR.** FENCING—VIZ, FARM AND POULTRY FENCE AND ORNAMENTAL FENCE MADE OF WIRE AND IRON AND GATES THEREFOR OF THE SAME MATERIALS. Registered July 13, 1926. KOKOMO STEEL & WIRE CO. Renewed July 13, 1946, to Continental Steel Corporation, Kokomo, Ind., a corporation of Indiana. Class 13.

215,309. **ROUNDUP.** BLUING AND AMMONIA. Registered July 13, 1926. ROUNDUP GROCERY COMPANY, Spokane, Wash., a corporation of Washington. Renewed July 13, 1946. Class 6.

215,424. **OCEAN CHAMPION.** BATHING SUITS. Registered July 20, 1926. THE OCEAN BATHING SUIT CO., INC. Renewed July 20, 1946, to Alfred Murphy, New York, N. Y. Class 39.

215,425. **VAN CRAFT.** MEN'S DRESS AND NEGLIGEE SHIRTS. Registered July 20, 1926. PHILLIPS-JONES CORPORATION, New York, N. Y., a corporation of New York. Renewed July 20, 1946. Class 39.

215,507. **SPEE-DEE.** METAL PIPE FITTINGS. Registered July 20, 1926. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 20, 1946. Class 13.

215,527. **WALTHAM.** SPEED AND DISTANCE INDICATORS. Registered July 20, 1926. WALTHAM WATCH AND CLOCK COMPANY, now by change of name, Waltham Watch Company. Renewed July 20, 1946, to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts. Class 26.

215,541. **THERMOGRAY.** HOT-WATER-SUPPLY TANKS FOR ATTACHMENT TO HEATING SYSTEMS FOR HOUSEHOLD USE. Registered July 20, 1926. PERCY GRAY, Jefferson, Iowa. Renewed July 20, 1946. Class 13.

215,544. **A CIRCULAR DESIGN OF FOUR QUARTER-CIRCLES AND FOUR STARS.** ALUMINUM AND ALUMINUM ALLOYS. Registered July 20, 1926. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 20, 1946. Class 14.

215,551. **"CONQUEROR" ETC.** HOSIERY. Registered July 20, 1926. RUBENS & MEYER. Renewed July 20, 1946, to Rubens & Meyer, Inc., New York, N. Y., a corporation of New York. Class 39.

215,660. **GLACIER.** CANDY COVERING FOR FROZEN CONFECTIONS. Registered July 20, 1926. ESKIMO PIE CORPORATION, Louisville, Ky. Renewed July 20, 1946, to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware. Class 46.

215,662. **FLAKE.** SOAP. Registered July 20, 1926. JAMES S. KIRK & COMPANY, Chicago, Ill. Renewed July 20, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

215,722. **SUNNY KANSAS.** WHEAT FLOUR. Registered July 27, 1926. THE WICHITA FLOUR MILLS COMPANY, Wichita, Kans., a corporation of Kansas. Renewed July 27, 1946. Class 46.

215,783. **EPBRO.** WATCHES, PARTS OF WATCHES, AND WATCH CASES. Registered July 27, 1926. M. EPSTEIN & BRO. Renewed July 27, 1946, to Monarch Watch Co., Inc., New York, N. Y., a corporation of New York. Class 27.

215,836. **LUXURY.** MEN'S, WOMEN'S, AND CHILDREN'S KNITTED UNION SUITS AND UNDERWEAR. Registered July 27, 1926. FORT SCHUYLER KNITTING CO., Utica, N. Y., a corporation of New York. Renewed July 27, 1946. Class 39.

215,839. **DE LUXE.** BOOTS AND SHOES OF LEATHER AND FABRIC AND COMBINATION OF LEATHER AND FABRIC. Registered July 27, 1926. P. W. MINOR & SON, INC., Batavia, N. Y., a corporation of New York. Renewed July 27, 1946. Class 39.

215,841. **"MOTOR CITY" AND DESIGN.** FLOOR BRUSHES, WINDOW BRUSHES, COUNTER BRUSHES, FACTORY BRUSHES, SASH-TOOL BRUSHES, VARNISH BRUSHES, GLUE BRUSHES, AND PAINT-BRUSHES. Registered July 27, 1926. MICHIGAN BRUSH MANUFACTURING CO., INC., Detroit, Mich., a corporation of Michigan. Renewed July 27, 1946. Class 29.

215,849. **GRAINS OF HEALTH.** MALT EXTRACT AND MALT HOP EXTRACT FOR FOOD PURPOSES. Registered July 27, 1926. WILLIAM J. GORDON, doing business as General Beverage & Products Co., Lancaster, Ohio. Renewed July 27, 1946. Class 46.

215,851. **WHITE TOP.** GYPSUM AND LIME-GYPSUM PLASTER. Registered July 27, 1926. SOUTHERN GYPSUM COMPANY, INCORPORATED, North Holston, Va. Renewed July 27, 1946, to The Mathieson Alkali Works, New York, N. Y., a corporation of Virginia. Class 12.

215,866. **CELLUWIPES.** ABSORBENT PADS OR SHEETS FOR HOSPITAL USE. Registered July 27, 1926. CELLUCOTTON PRODUCTS COMPANY, Neenah, Wis. Renewed July 27, 1946, to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware. Class 44.

215,975. **CREAM TOP.** GLASS MILK BOTTLES. Registered Aug. 3, 1926. CREAM TOP BOTTLE CORPORATION, Albany, N. Y., a corporation of New York. Renewed Aug. 3, 1946. Class 33.

215,997. **THOMAS'.** BREAD. Registered Aug. 3, 1926. S. B. THOMAS, INC., Long Island City, N. Y., a corporation of New York. Renewed Aug. 3, 1946. Class 46.

216,076. **PYRAMIDE.** LACQUER. Registered Aug. 3, 1926. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Aug. 3, 1946. Class 16.

216,088. **"RONAN" AND DESIGN.** READY-MIXED PAINTS, VARNISHES, AND PAINT ENAMELS. Registered Aug. 3, 1926. T. J. RONAN CO. INC., Brooklyn, N. Y. Renewed Aug. 3, 1946, to T. J. Ronan Co., Inc., New York, N. Y., a corporation of New York. Class 16.

216,107. **"FOSTORIA" ETC.** TABLE GLASSWARE. Registered Aug. 3, 1926. FOSTORIA GLASS COMPANY, Moundsville, W. Va., a corporation of West Virginia. Renewed Aug. 3, 1946. Class 33.

216,163. **RY-KRISP.** RYE BREAKFAST FOOD. Registered Aug. 3, 1926. THE RY-KRISP COMPANY, Minneapolis, Minn. Renewed Aug. 3, 1946, to Ralston Purina Company, St. Louis, Mo., a corporation of Missouri. Class 46.

216,260. **CARDINAL.** RADIO ACCESSORIES—NAMELY, BEZELS, SWITCHES, JACKS, TUNING COILS, LOOP AERIALS, SPRING AERIALS, HEADBANDS, RHEOSTATS, CONDENSERS, AND COMPLETE RADIO RECEIVING SETS. Registered Aug. 10, 1926. THE CHAS. FISCHER SPRING CO., Brooklyn, N. Y., a corporation of New York. Renewed Aug. 10, 1946. Class 21.

216,372. **BARRELED SUNLIGHT.** LACQUERS. Registered Aug. 10, 1926. UNITED STATES GUTTA PERCHA PAINT COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed Aug. 10, 1946. Class 16.

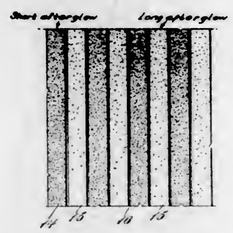
216,439. **COLAS.** BITUMINOUS PAINTS OR LIKE COATING OR IMPREGNATING COMPOUNDS. Registered Aug. 10, 1926. ASPHALT COLD MIX LIMITED, London, England, assignor to Asphalt Cold Mix (1925) Limited. Renewed Aug. 10, 1946, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Class 16.

216,500. **ORIZA-L-LEGRAND.** PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, BRILLIANTINE, EAU DE COLOGNE, LOTION FOR THE SKIN AND HAIR. Registered Aug. 10, 1926. ORIZA L. LEGRAND, INC., Wilmington, Del., and New York, N. Y. Renewed Aug. 10, 1946, to Oriza, Ltd., New York, N. Y., a corporation of New York. Class 6.

REISSUES

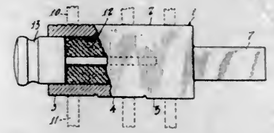
JULY 2, 1946

22,769
LUMINOUS ARTICLE AND METHOD
John R. Lynch, Providence, R. I., assignor to E. P. Lynch, Inc., a corporation of Rhode Island
Original No. 2,372,903, dated April 3, 1945, Serial No. 469,510, December 19, 1942. Application for reissue March 28, 1946, Serial No. 657,640
6 Claims. (Cl. 250—80)



1. An article of manufacture comprising a base presenting a surface, luminescent materials of relatively longer and shorter afterglow on said surface, the material of the longer afterglow presenting one surface area and the material of the shorter afterglow presenting a different surface area, said areas being each of substantial extent and each distinct and independent of the other.

22,770
LAPPING BLOCK
Knut Robert Sjogren, Los Angeles, Calif.
Original No. 2,368,575, dated January 30, 1945, Serial No. 527,383, March 21, 1944. Application for reissue December 20, 1945, Serial No. 636,245
2 Claims. (Cl. 51—212)



1. In a lapping block, a body having a lapping surface and a plurality of at least three mutually successively adjacent control surfaces parallel with and opposed to said lapping surface in a manner whereby each of said control surfaces and a thereto opposed part of said lapping surface together correspond to a lapping section of the block, said control surfaces being successively stepped and the difference between the respective distances from said lapping surface of each two adjacent said control surfaces being equal to the quotient, arrived at by dividing one fortieth of an inch by the number indicating said plurality of control surfaces.

PLANT PATENTS

GRANTED JULY 2, 1946

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

702
ROSE PLANT
Frederick Huber Howard, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.
Application November 7, 1945, Serial No. 627,153
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant substantially as herein shown and described, characterized particularly by its prolific blooming habit, its high degree of disease resistance; its conical bud; the heavy substance of its petals and foliage; and the camellia-like form, distinctive salmon pink coloring and long-lasting quality of its flowers.

703
BARBERRY PLANT
Constant De Groot, Sheridan, Ontario, Canada, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application June 7, 1945, Serial No. 597,975
1 Claim. (Cl. 47—59)

A new and distinct variety of barberry plant, characterized as to novelty by its habit of rapid growth, combined with the smaller foliage and spine characteristics of *Barberry thunbergi;* the color of its foliage; cluster arrangement of oblong red fruit; adaptability for hedge usage by reason of its quick, tall, narrow and impervious habits of growth; and its adaptability for usage as a single ornamental bush of vigorous, hardy and colorful growth, substantially as shown and described.

704
ROSE PLANT
Walter E. Lammerts, West Los Angeles, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application February 8, 1945, Serial No. 576,741
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by the depth, brilliance and uniformity of color of its blooms; resistance of such blooms to fading; unusual continuity of blooming for double yellow pillar type of roses; the heavy, glossy and leathery foliage on a free-branching, vigorous plant relatively free from prickles; and marked resistance of said foliage to mildew, substantially as shown and described.

705
BUDDLEIA PLANT
Paul J. Schmidt, Youngstown, Ohio, assignor to The Wayside Gardens Company, Mentor, Ohio, a corporation of Ohio
Application November 9, 1945, Serial No. 627,653
1 Claim. (Cl. 47—60)

The new and distinct variety of Buddleia plant herein shown and described and characterized particularly in large, well rounded, and sharp pointed flower heads, the purity of the whiteness of the florets and flower heads, the permanence of the blooms when cut, the long, straight, well branched stiff stalks, and the bearing of the flower heads on the stalk or branches without break or curvature.

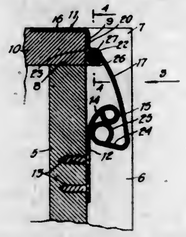
706
BUDDLEIA PLANT
Paul J. Schmidt, Youngstown, Ohio, assignor to The Wayside Gardens Company, Mentor, Ohio, a corporation of Ohio
Application November 9, 1945, Serial No. 627,654
1 Claim. (Cl. 47—60)

A new and distinct variety of Buddleia plant herein shown and described and characterized particularly by large leaves; its rapid and sturdy growth; the golden eye or interior of the funnel and color of the petals; the concurrent opening of almost all the florets of a head; the straight, stiff, sturdy stalks supporting the flower heads in coaxial relation without break or curvature; and the large size, well rounded contour, and rounded blunt tip, of the inflorescence as a whole.

PATENTS

GRANTED JULY 2, 1946

2,402,939
CLOSURE FASTENER DEVICE
Henry Auslander and Irving M. Krischer, Brooklyn, N. Y.
Application July 31, 1943, Serial No. 497,146
2 Claims. (Cl. 292—194)



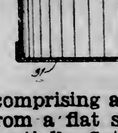
2. In fastener devices of the class described, a member comprising two parts, one part of said member having spaced cylindrical pintle bearings, the other part comprising an elongated outwardly bowed arm, one end of said arm having a pintle bearing arranged between and registering with the bearings of the first part, a pintle coupling said bearings to provide free swinging movement of the arm on the first part, the other end of said arm having a short inturned wall portion forming a substantially V-shaped fingerpiece protruding at said end of the arm, and said short wall portion terminating in a cylindrical member arranged in spaced relation to said arm and adapted to engage a yieldable catch.

2,402,940
PROCESS OF TREATING CASHEW NUT SHELL LIQUID
Norton E. Berry, Newburg, Ind., and Roland E. Kremers, Summit, N. J., assignors to General Foods Corporation, Hoboken, N. J., a corporation of Delaware
Application September 15, 1943, Serial No. 502,530
12 Claims. (Cl. 260—624)

1. The steps in the process of decarboxylating the anacardic acid content of an anacardic acid-containing liquid susceptible to foaming upon heating, within a confined space having a volume substantially greater than that of the liquid, which comprise heating said liquid to provide a temperature to decarboxylate anacardic acid contained in said liquid with the liberation of carbon dioxide therefrom; and subjecting said heated liquid to pressure created in said confined space by carbon dioxide liberated from said anacardic acid to reduce materially the volume of foam produced.

2,402,941
LAMP SOCKET
Harold S. Bixby, East Haven, Conn.
Application April 17, 1944, Serial No. 531,348
6 Claims. (Cl. 173—328)

1. A socket or holder for fluorescent lamps provided with outwardly projecting end contact pins, said socket comprising a body portion of insulating material having a substantially horizontally disposed transverse slot across its face opening through a side edge thereof and a pair of longitudinally disposed, pin receiving, slots in the face of said body portion communicating at their upper ends with said transverse slot and closed at

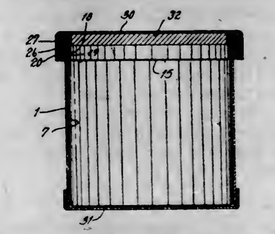


their lower ends, and a spring contact member disposed rearwardly of each of said last named slots to engage a pin moved downwardly therein.

2,402,942
CELLULOSE DERIVATIVE COMPOSITIONS
Joseph E. Bludworth, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 13, 1941, Serial No. 378,741
7 Claims. (Cl. 18—57)

1. Process for the production of shaped articles having a basis of a carboxylic acid ester of cellulose, which comprises forming a solution of a carboxylic acid ester of cellulose and an alkylated glycol ester of methacrylic acid capable of polymerization in a volatile solvent in the absence of plasticizer, shaping said solution, removing the volatile solvent therefrom by evaporation leaving a shaped article consisting of a substantially homogeneous mixture of said organic derivative of cellulose and said alkylated glycol ester of methacrylic acid and then treating the shaped article so as to cause polymerization of the ester of methacrylic acid.

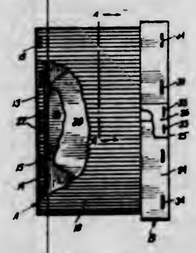
2,402,943
CONTAINER
Boris Bogoslowsky, Jackson Heights, N. Y.
Application November 21, 1942, Serial No. 466,424
1 Claim. (Cl. 229—5.5)



A container comprising a seamless cup shaped body formed from a flat sheet of material and having a substantially flat bottom portion and pleated side walls, the upper section of said pleated side walls being reversely folded and extending downwardly from an upper edge formed by said fold substantially parallel to said side walls, and a closure for said cup shaped body, said closure being formed from a second sheet of material extending transversely across the open upper end of said cup shaped body below the upper edge thereof, and having a portion extending upwardly therefrom contiguous to said pleated side walls, said second sheet consisting of thin material having a high degree of flexibil-

ity and having heat sealing properties, the upper part of said contiguous portions being heat sealed together, and leaving the lower part of said contiguous portions unsealed, said second sheet being reversely folded over the upper edge of said cup shaped body and extending downwardly therefrom substantially parallel to said reversely folded portions of said side walls, said parallel portions being heat sealed together, the flexibility of said second sheet being such that the transversely extending portions of said second sheet and the unsealed portions thereof extending upwardly therefrom present no appreciable resistance to deformation when the upper rim of said cup-shaped body is subjected to deformation, and no appreciable resistance to deformation on expansion of the contents of the container, whereby stresses tending to tear said second sheet are avoided when said sheet is deformed for either reason.

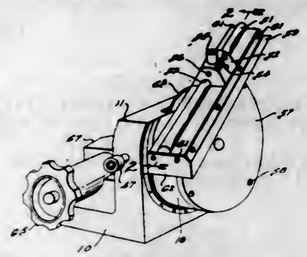
2,402,944
CONTAINER
Henry E. Braloff, Rockville Centre, N. Y.
Application January 12, 1944, Serial No. 518,201
9 Claims. (Cl. 229—41)



1. A fibrous container comprising a collapsible tubular body having an inwardly folded portion at one end thereof to provide a shoulder within said body, a rigid disc hingedly connected to said body and movable therein into abutting engagement with said shoulder, in frictional peripheral engagement with the inner surface of the body, to form a bottom closure for the container, a collapsible annular member adapted to be mounted on said body, in frictional engagement with the outer surface thereof, a series of circumferentially spaced staples projecting inwardly of said annular member to form a plurality of shoulders therein, and a rigid disc hingedly connected to the annular member and movable therein into abutting engagement with said shoulders, to provide a wall in said annular member adapted to function as a closure for the top of the container when said annular member is mounted on said tubular body.

2,402,945
GRINDING WHEEL DRESSING DEVICE
Emil Brocker, Van Dyke, Mich., assignor to Super Tool Company, Warren Township, Macomb County, Mich., a partnership
Application February 3, 1944, Serial No. 520,913
2 Claims. (Cl. 125—11)

1. In a grinding wheel dressing device, a base support, a horizontal shaft mounted thereon, a dial plate mounted on said shaft for adjustment about the axis of the shaft in a vertical plane, a gear on said shaft, a carriage on said plate having a rack in engagement with said gear when mounted for movement on a tangent to a circle about said axis, a second shaft mounted on said base support and extending through an arcuate slot in said plate, a gear on said second shaft in driving engagement with said first gear, and means for clamping said plate to said support



for retaining it in adjusted position with the carriage tilted at a desirable angle relative to a horizontal plane.

2,402,946
EGG CLEANING DEVICE
Michael A. Brown, San Francisco, Calif.
Application July 3, 1945, Serial No. 603,075
1 Claim. (Cl. 51—190)



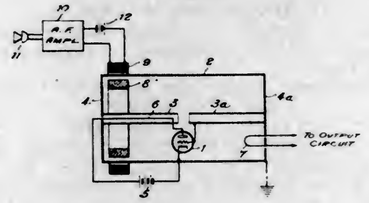
In an egg cleaning device, a rotatable driving member, a collar attachable to the driving member, the said collar having inwardly protruding ribs for engaging with the driving member to prevent the shipping of the collar when the driving member rotates a yieldable tubular abrasive element secured to and carried by the collar, the said abrasive element having a substantial part arranged in projecting and free relationship with respect to the collar and the driving member, whereby when said part is engaged by an egg during a cleaning operation, a flexible surface is provided which permits a change in pressure between the egg and the said part to a predetermined extent without breaking the egg.

2,402,947
FLUX-FORMING FUEL AND PROCESS FOR THERMALLY WORKING MINERALS THEREWITH
Charles J. Burch, Plainfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
No Drawing. Application February 6, 1943, Serial No. 475,052
14 Claims. (Cl. 255—1.4)

1. A flux-forming fuel comprising a comminuted composition containing, by weight, 4% to 36% iron, 28% to 63% manganese, 3% to 19% silicon, 4% to 50% aluminum, and 1% to 13% of at least one substance selected from the group consisting of zirconium and calcium.

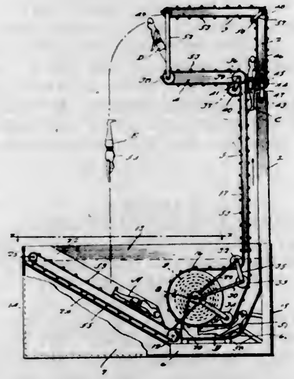
7. In a process for thermally working mineral and like masses comprising separating and removing material from such a mass by applying an oxy-fuel flame to a portion thereof while introducing into such flame a comminuted flux-forming fuel, the improvement which consists in introducing said flux-forming fuel as a flowing stream of a comminuted composition containing, by weight, 4% to 36% iron, 28% to 63% manganese, 3% to 19% silicon, 4% to 50% aluminum, and 1% to 13% of at least one substance selected from the group consisting of zirconium and calcium.

2,402,948
TUNING ARRANGEMENT
Wendell L. Carlson, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 9, 1942, Serial No. 442,291
12 Claims. (Cl. 179—171.5)



1. A resonant circuit comprising an enclosed metallic cavity, a core of comminuted magnetic material located in said cavity, and means for tuning said resonant circuit including a modulating coil located externally of said cavity for producing an exciting flux in said core.

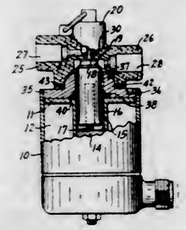
2,402,949
MECHANICAL TOY HIGH DIVING APPARATUS
Asa B. Carmichael, Sr., Tujunga, Calif.
Application November 23, 1945, Serial No. 630,194
8 Claims. (Cl. 46—130)



1. A toy high-diving apparatus comprising a diver, a water tank, and conveyor mechanism in said water tank and extending upwardly and over said tank for conveying said diver in an upright stance to a high-diving position over said tank, said conveyor mechanism being constructed and arranged to disengage from the diver in the diving position to permit said diver to fall freely under the influence of gravity into said tank in simulation of a high dive and to repeat the cycle.

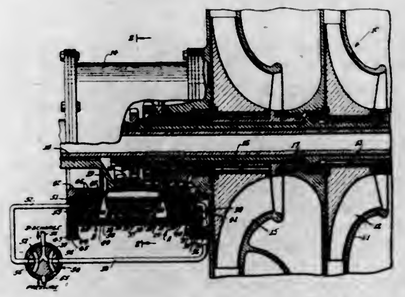
2,402,950
MOLDED PART AND METHOD OF FORMING SAME
Merlyn M. Culver and Lyle L. Duncan, Dayton, Ohio
Application April 13, 1943, Serial No. 482,928
9 Claims. (Cl. 251—158)

1. In a fluid containing or transmitting structure, such as the valve mechanism described and having a fitting with fluid passages therethrough and a valve seat interposed between said passages and having an opening from one of said passages for receiving a member containing a movable valve body, said member having portions thereof positioned to be in contact with or in the path of the fluid, said member being made of powdered material resistant to the liquid and molded into an agglomerated liquid permeable mass and with said portions of said molded mass treated with a limited amount of material which is



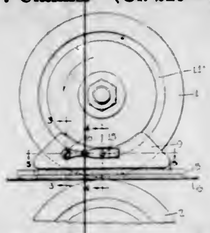
normally solid and adequately adherent to the powdered material and which is introduced by absorption into the pores of said portions of the molded member to make those portions of said member and retained within said portions which will be in contact with the liquid impermeable to passage of fluid therethrough, and sealing means between the surfaces of said impermeable portions and associated surfaces of cooperating parts to prevent any flow or leakage of fluid from the fluid passages.

2,402,951
SPEED-CHANGE MECHANISM
Chester C. De Pew, Farmingdale, N. Y., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y., a corporation of Maryland
Application August 20, 1942, Serial No. 455,459
10 Claims. (Cl. 74—277)



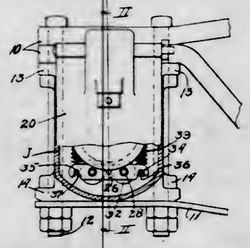
1. In speed change mechanism, the combination of a driving means, a driven means, planet gears carried by one of said means, each of said gears comprising at least two relatively rotatable pinions, driving connections between both sets of pinions and the other of said means, said last named means comprising two members, a fixed ring gear meshing with one set of said pinions, a rotatable ring gear meshing with another set of pinions, means for holding said rotatable ring gear stationary, said holding means including a brake element on said ring gear and a fixed brake element, and means for actuating said brake elements to operatively connect the corresponding set of planet gear pinions between the driving and driven means.

2,402,952
ROLLER GUIDE
Arthur R. Diamond and William Stever, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 22, 1944, Serial No. 555,223
7 Claims. (Cl. 219—4)



6. Apparatus for keeping a roller and stringer in alignment, comprising in combination, a roller, and a guide secured thereon which rides on and guides along the stringer as the roller turns relative to the guide, said guide projecting a greater distance on one side of the stringer engaging point of the roller than on the other.

2,402,953
JOURNAL LUBRICATOR
William J. Fitzsimmons, Chicago, Ill.
Application June 7, 1944, Serial No. 539,047
4 Claims. (Cl. 308—91)



1. A bearing and lubricating assembly for the journal of an axle in a railway vehicle journal box, comprising a bearing element for mounting in the upper side of the box for bearing engagement with the journal, a lubricating roller supporting carriage below the journal having hook ends, rods engaging in said hook ends, suspension links extending downwardly from said bearing element at opposite sides of the journal and connected at their lower ends with said rods, said links including tension springs functioning to hold said carriage for pressure engagement of the rollers with the journal for feeding of lubricant from the bottom of the journal box to the journal.

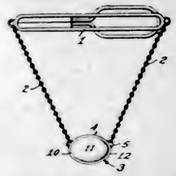
2,402,954
SEPARATION OF ISOMERIC PARAFFINS
Alfred W. Francis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application April 30, 1943, Serial No. 485,153
8 Claims. (Cl. 260—676)

1. A method of separating triptane from a mixture containing triptane and less highly branched isomers thereof which comprises contacting the mixture with diethylene glycol monoethyl ether under conditions appropriate for the preferential solution of triptane in the reagent, permitting phase separation into an extract phase rich in triptane and a raffinate phase less rich in triptane than the starting mixture, separating the extract phase, and removing said diethylene glycol monoethyl ether therefrom to give a triptane concentrate.

2,402,955
LUMINESCENT MATERIAL
Herman C. Froelich, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
No Drawing. Application December 18, 1942, Serial No. 469,467
7 Claims. (Cl. 252—301.4)

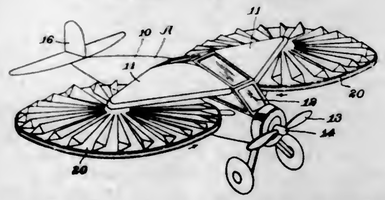
1. A phosphor of zirconate of metal of the group consisting of strontium, barium, and cadmium, activated with a minor proportion of bismuth.

2,402,956
PENDENT SUSPENSION
Charles E. Fyfe, Pittsburgh, Pa.
Application September 27, 1944, Serial No. 556,034
3 Claims. (Cl. 63—2)



1. A pendent structure comprising a mounting member formed with an open reception slot and with a pair of open slits extending parallel to said slot at respective sides of the latter, said slits providing a retaining finger between each and said slot, an ornamental element, and means carried by the latter engaged by said fingers for demountably securing said element to said member.

2,402,957
AIRPLANE ROTARY WING
George A. Geddes, Minneapolis, Minn.
Application September 2, 1941, Serial No. 409,253
3 Claims. (Cl. 244—39)



1. A rotor wing for an airplane comprising a disc-shaped body symmetrical with respect to a central axis of rotation, said body having a substantially flat under surface, a convex upper surface, and a rounded, convex rim portion smoothly interconnecting said under and upper surfaces, generally radially extending elongated vanes arranged in angularly spaced relation mounted on said upper surface, said vanes forming pockets facing in a direction opposite to the normal direction of rotation of the rotor wing, each of said vanes including a peripheral end wall closing the outer end of the pocket, each of said pockets tapering in cross section from a minimum at its innermost point to a maximum at its peripheral terminus, each of said end walls generally merging into said rim portion.

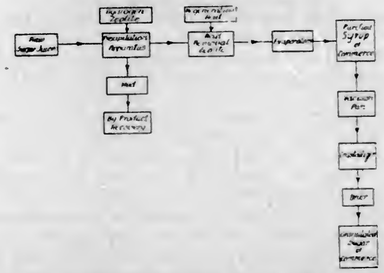
2,402,958
PROCESS OF PRODUCING ACETALDEHYDE
Alfred R. Globus, Brooklyn, N. Y.
No Drawing. Application August 6, 1942, Serial No. 453,899
5 Claims. (Cl. 260—605)

1. The continuous process of producing acetaldehyde which consists in passing a mixture of steam, air and acetylene over inert porous material impregnated with a catalyst, including mercuric sulphate, which facilitates the vapor phase hydration of acetylene to acetaldehye, the air constituent of the mixture being sufficiently in excess of any requirements of the vapor phase reaction to insure reoxidation of the catalyst in situ by the oxygen of said air constituent whenever said catalyst has been reduced in the hydration of the acetylene to acetaldehye, the commingled steam, air and acetylene being all heated to the required vapor phase reaction temperature before contact with the catalyst and the steam constituent of the mixture being sufficiently in excess of that required for the hydration to prevent the formation of an explosive air and acetylene mixture.

2,402,959
REMOVAL OF BORON FROM BORON POLLUTED SUBSTANCES
Hilding B. Gustafson, Hinsdale, and Edward Kominek, Jr., Chicago, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 13, 1943, Serial No. 486,914
8 Claims. (Cl. 23—91)

1. A cyclic process for removing a boron containing compound from brine which comprises contacting said brine with a dried and granular material taken from the class consisting of the oxides, hydroxides, silicates and phosphates of iron, chromium, nickel, magnesium and aluminum, said material being substantially insoluble in said brine, separating said brine from said material; then regenerating said material by contacting it with a dilute solution of caustic; and again passing further quantities of said solution through said material.

2,402,960
PROCESS OF CLARIFYING SUGAR SOLUTIONS
Hilding B. Gustafson, Hinsdale, and Lewis A. Paley, Glen Ellyn, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application July 22, 1942, Serial No. 451,950
3 Claims. (Cl. 127—46)



1. The process of producing purified sugar juice, which comprises mixing the raw juice in a rapidly circulating body of previously formed precipitate with an amount of hydrogen zeolite sufficient to reduce the pH of the juice to between 1.5 and 4.0, withdrawing a portion of said precipitate from said circulating body, concentrating said precipitate, withdrawing a clarified portion of juice from said circulating body and treating said withdrawn juice with an anion exchange material.

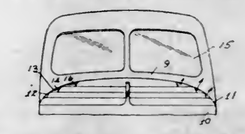
2,402,961
PERTHIOCYANIC METAL PIGMENTS
William H. Hill, Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
No Drawing. Application May 16, 1942, Serial No. 443,301
13 Claims. (Cl. 106—176)

10. A lacquer composition comprising a cellulose plastic, a thinning solvent, and a water-insoluble metal salt of perthiocyanic acid as an essential pigment ingredient.

2,402,962
PERTHIOCYANIC-ACID PIGMENT
William H. Hill, Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
No Drawing. Application May 16, 1942, Serial No. 443,302
8 Claims. (Cl. 106—176)

7. As a lacquer, a composition comprising a cellulosic plastic lac and as an essential pigment ingredient perthiocyanic acid.

2,402,963
INSECT DEFLECTOR
James I. Hoag, Bloomfield, Iowa
Application June 12, 1944, Serial No. 539,951
3 Claims. (Cl. 180—69)

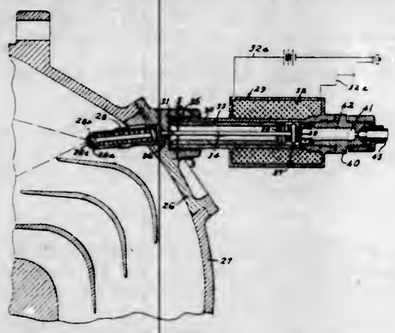


1. An insect deflector adapted to be carried on an automobile hood having an upper peripheral edge, said deflector comprising a rib having a front portion and rearwardly diverging side portions continuous therewith, with said rib being above the top level of said peripheral edge and spaced inwardly therefrom to provide a substantially horizontal surface between said peripheral edge and the front portion and side portions of said rib, with said front portion and side portions being inclined upwardly and inwardly so that air passing over said horizontal surface is deflected upwardly by said portions, and a second rib above the top level of said first rib having a front and side portions spaced inwardly from the corresponding portions of said first rib, with the front and side portions of said second rib being inclined upwardly and inwardly, and of a vertical height substantially equal to the vertical height of the front and side portions of said first rib, said second rib acting to deflect upwardly the air passing over the top surface of said first rib.

2,402,964
DEVICE FOR SUPPLYING STARTING FUEL
Bo N. Hoffström, Malmo, Sweden, assignor to A.-B. Aerotransport, Stockholm, Sweden, a corporation of Sweden
Application January 11, 1943, Serial No. 472,084
In Sweden December 1, 1941
11 Claims. (Cl. 123—180)

7. In a device of the type described, nozzle means for introducing starting fuel into an en-

gine, means for connecting said nozzle means with a source of fuel under pressure, a tubular non-magnetic valve housing connected in the path of the fuel to, and in the proximity of, said nozzle means, a valve seat at one end of said housing near said nozzle means, a light-weight valve needle member provided within said housing and cooperating with said seat to keep the valve closed under the action of the fuel pressure, a



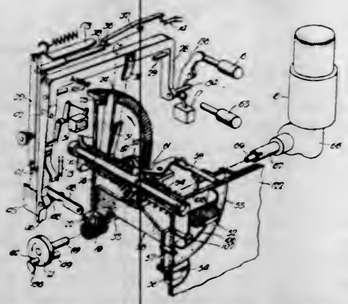
tubular iron core movable axially within said housing and surrounding said valve needle member separate from the latter, an elastic intermediate member between said valve needle member and said iron core, and a solenoid for causing said iron core by compressing said intermediate member to build up a force on said valve needle member sufficient to move the latter away from its seat against the fuel pressure.

2,402,965

TIMING DEVICE

Carl S. Hornberger, Glen Ellyn, Ill., assignor to Central Scientific Company, a corporation of Illinois

Application September 19, 1941, Serial No. 411,593
15 Claims. (Cl. 161—1)



1. A timing device including a constantly driven member, a timing member adapted to be engaged therewith approximately at one end of the interval and disengaged therefrom approximately at the other end and to be driven thereby constantly between said engagement and disengagement, means rendered effective when the timing member is driven to a predetermined position by the constantly driven member for releasing the timing member therefrom and causing it to return to a starting position, controlled means operated at a predetermined position in the cycle of the timing member, characterized by the provision of a member moving faster than the constantly driven member, and means controlled thereby for timing the actuation of the controlled means and for timing the engagement between the timing member and the constantly driven member after the return of the constantly driven member to its starting position.

2,402,966

PROCESS OF PRODUCING VARIEGATED PRESSED FIBERBOARD

Harry K. Linzell, Long Lake, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application July 11, 1942, Serial No. 450,643
3 Claims. (Cl. 92—38)



1. A process for the production of a hard pressed board which comprises forming a mat from a suspension of vegetable fibers in an acidic aqueous solution of a color-inducing compound selected from the group consisting of acids and acidic metal salts which increase the rate of coloration of said fiber under heat and pressure, compacting said mat to remove a portion of said solution therefrom, embossing said mat to produce a plurality of raised portions on the surfaces thereof, drying the mat to remove water therefrom whereby said color-inducing compound is deposited adjacent the surface of said mat and concentrated around said portions, and further compacting said mat at a temperature within the range of about 350° to about 500° F. in order to form said board, whereby the surface of said board assumes a color proportional to the amount of color-inducing compound present adjacent said surface.

2,402,967

METHOD OF REMOVING FLASH FROM SOFT MOLDED ARTICLES

Lewis W. Lubenow, Orange, N. J.

No Drawing. Application August 22, 1945, Serial No. 612,135
6 Claims. (Cl. 51—282)

2. A method of removing flash from soft rubber molded articles, which comprises tumbling them in an inert liquid at a temperature at which the flash is hard.

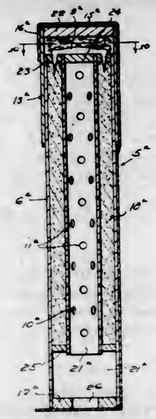
2,402,968

COLORED GAS SIGNAL

Douglas M. MacMillan and John Vinton, Berkeley, Calif.

Application August 15, 1942, Serial No. 455,000
3 Claims. (Cl. 102—37.8)

1. A device for continuous emission of a stream of smoke of predetermined color consisting of an outer tube, a hollow inner tube open at one end and arranged substantially concentrically within said outer tube and spaced therefrom to provide a space, said outer tube extending beyond said inner tube at one end thereof to provide a smothering chamber for gas emitted from said inner tube, a smoke generating composition in said space adapted to burn when ignited at one end at a substantially constant rate to the other end thereof without flame and with emission of a substantially constant stream of a colored gaseous product, said inner tube having a plurality of side wall perforations therein throughout the length of said inner tube to release said generated colored gaseous product through that opening which is substantially at the point of gas generation and into said hollow inner tube for emission as a signal from the open end of said inner tube.



2,402,969

LUBRICATING COMPOSITION

Rush F. McCleary, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application March 26, 1943, Serial No. 480,680
14 Claims. (Cl. 252—52)

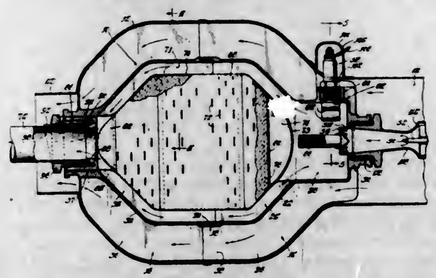
1. A lubricating composition comprising a major amount of a hydrocarbon oil and a minor proportion, sufficient to impart detergent properties to said oil, of an oil-miscible compound of the class consisting of an aliphatic-ether-alcohol and an aliphatic-ether-metal alcoholate derivative of the phenolic compositions present in or derived from the oils extracted from the Anacardium genus of the Anacardiaceae family.

2,402,970

HEATER

Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased

Application September 5, 1942, Serial No. 457,447
4 Claims. (Cl. 126—116)



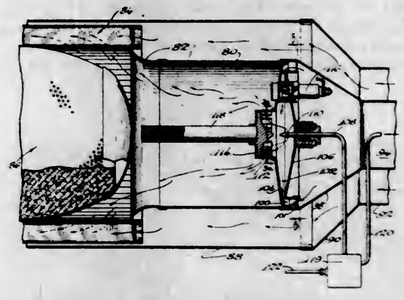
1. In a heater of the class described, wall means forming a cylindrical combustion chamber and a tubular exhaust passage in substantially axial alignment therewith, inner and outer wall means forming a flow passage for conducting the hot products of combustion from said combustion chamber to said exhaust passage, said flow passage being of annular cross section, the inner and outer walls of said passage adjacent the combustion chamber flaring outwardly at an abrupt angle to the axis of said chamber, and said walls of said flow passage adjacent the exhaust end of the heater converging toward the axis of the exhaust passage at an abrupt angle to said axis, a jacket spaced at an approximately uniform distance from the outer wall of said flow passage throughout its length, forming a passage for ventilating air between said outer wall and said jacket, said air passage being of annular cross section with its walls flaring outwardly from the end adjacent the combustion chamber and converging at the other end adjacent the exhaust passage so that the air passage substantially follows the contour of the flow passage, and means delivering ventilating air so as to flow through said passage in the same direction as the combustion gases move through their said flow passage, whereby said ventilating air impinges forcibly against the flaring outer wall of said flow passage near the combustion chamber and the combustion gases impinge forcibly against the converging surface of said wall adjacent the exhaust end of the heater.

2,402,971

BURNER

Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased

Application October 16, 1942, Serial No. 462,231
7 Claims. (Cl. 158—28)



1. In apparatus of the class described, the combination of a combustion chamber having an end wall formed of material of high heat conductivity and exposed throughout substantially its entire area to the heat in said chamber and having an opening therethrough, a second wall spaced from said first-named wall, said walls cooperating to form an air passage therebetween along the outer face of said end wall, said air passage having an inlet adjacent the periphery of said first-named wall, means for feeding liquid fuel into said air passage for mixture with the air therein for movement through said opening into said combustion chamber and means for giving a whirling motion to the air and fuel entering the combustion chamber.

2,402,972

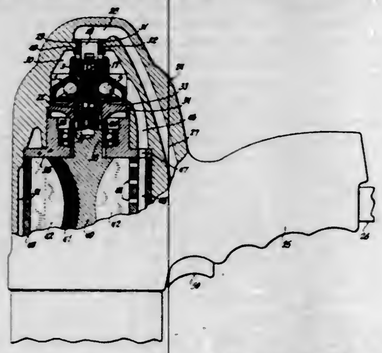
CENTRIFUGAL GOVERNOR FOR TOOLS

Walter G. Mitchell, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware

Application November 20, 1944, Serial No. 564,339
4 Claims. (Cl. 264—17)

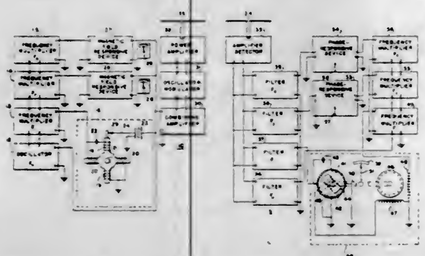
1. A governor device of the character described comprising, a revoluble body member having fluid passage ports therein, a valve member slidably mounted on the body member for opening and

closing said ports, said members having opposed angularly disposed surfaces, centrifugally responsive elements interposed between said surfaces and acting thereon for moving the valve member axially of the body member to close said



ports, spring means normally urging the valve member in the opposite direction to open said ports, and means for adjusting the tension of said spring and serving as a connector for the body member with means which rotates it.

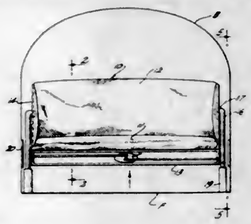
2,402,973
TRANSMITTER FOR TELEMETERING SYSTEMS
David W. Moore, Jr., New York, N. Y., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application May 18, 1942, Serial No. 443,412
13 Claims. (Cl. 177—380)



1. In a telemetering system, a sending station comprising a primary metering element, a periodic wave supply circuit, means for producing a magnetic field, means for varying the direction of said field in accordance with the indication of said element, a magnetic field-responsive device for deriving from said supply circuit a periodic wave varying in phase in accordance with the direction of said field, and means for transmitting a periodic wave of a phase varying with said derived periodic wave.

2,402,974
SWIVELED AND SHOCK ABSORBING SEAT CONSTRUCTION FOR VEHICLES
William A. Morse, Santa Monica, Calif.
Application November 17, 1944, Serial No. 563,854
2 Claims. (Cl. 155—9)

2. In a vehicle body construction, a seat, a pair of supports at the sides of the seat, means resiliently mounting the supports on the body of the vehicle for up and down movement relatively thereto, said supports being pivotally connected to the seat at the sides thereof for swinging movement of the seat relatively thereto, and means for locking the seat against swinging movement relatively to said supports, said locking

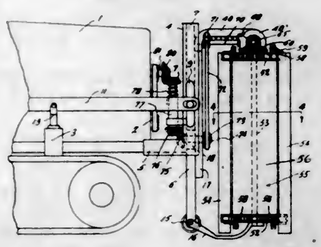


means providing for movement of the seat up and down upon said resilient mounting, said means being operable from the bottom of the seat adjacent the forward end thereof.

2,402,975
ACTIVATING COMPOSITIONS
Frederick V. Nugent, Abington, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Application March 18, 1943, Serial No. 479,627
2 Claims. (Cl. 260—32)

2. An activating composition for polyvinyl butyral cement comprising polyvinyl butyral to the extent of about 8% to 12% by weight of the composition and a liquid vehicle, the liquid vehicle itself consisting of from 20% to 55% by weight of solvent selected from the class consisting of methanol, ethanol, isopropanol, methyl acetate, propylene oxide and mixtures thereof, and the balance non-solvent selected from the class consisting of ethyl ether, isopropyl ether, acetone and mixtures thereof.

2,402,976
SCRAPER
Victor J. Olson, Spokane, Wash.
Application January 9, 1945, Serial No. 572,037
8 Claims. (Cl. 37—109)

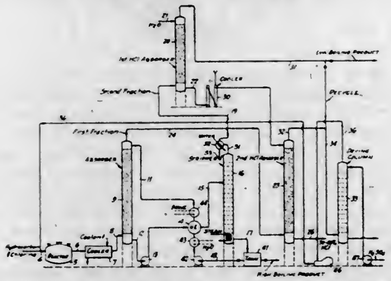


1. A scraper constituting an attachment for a tractor having a power take-off at its front and comprising a mounting frame adapted to be mounted at the front of the tractor and including vertical standards at sides of the frame and a plate carried by and shiftable vertically between the standards, a plate in front of the first plate tiltable transversely to adjusted positions, arms extending forward from the second plate, shoes extending forwardly from the first plate, a scraper frame disposed in a vertical plane and supported between the arms and shoes, shafts rotatably mounted vertically at opposite sides of the scraper frame, sprockets carried by upper and lower ends of said shafts, chains trained about said sprockets and having front and rear flights extending transversely of the scraper frame, vertical blades carried by and projecting outwardly from said chains, and means for transmitting motion from the power take-off of the tractor to said shafts.

2,402,977
REACTIVE SULPHIDE POLYMER AND PROCESS OF MAKING IT
Joseph C. Patrick, Morrisville, Pa., and Harry R. Ferguson, Trenton, N. J., assignors to Thiokol Corporation, Trenton, N. J., a corporation of Delaware
No Drawing. Application January 24, 1944, Serial No. 519,546
10 Claims. (Cl. 260—79)

1. Process which comprises reacting a polymer-forming reagent, comprising a mixture of an alkaline polysulphide and an alkaline hydrosulphide with an organic compound containing at least one carbon atom and at least two carbon-attached negative substituents split off by reaction of said organic compound with said reagent, the molar proportion of hydrosulphide to polysulphide in said reagent being from about 9 to 1 to about 1 to 9.

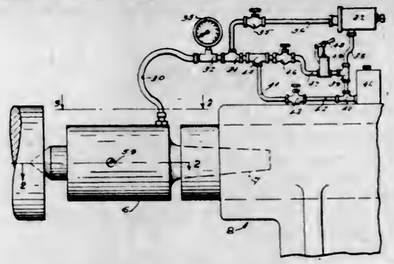
2,402,978
PROCESS FOR CHLORINATION OF SATURATED HYDROCARBONS AND RECOVERING HYDROCHLORIC ACID
Glenn L. Allen, Jr., Freeport, Tex., and Robert Heitz, Antioch, and George Henderson, Pittsburg, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 5, 1944, Serial No. 534,374
5 Claims. (Cl. 23—154)



1. A process for separating a gaseous mixture of hydrogen chloride and at least one chloromethane from the group consisting of methyl chloride, dichloromethane, chloroform and carbon tetrachloride comprising scrubbing the mixture with a solvent to remove substantially all chloroform and carbon tetrachloride and provide as a first gas fraction a scrubbed gas stream containing hydrogen chloride, heating the solvent from the scrubbing step to drive off any methyl chloride and hydrogen chloride therein as a second gas fraction, then scrubbing the second gas fraction with water to remove the hydrogen chloride and form a weak hydrochloric acid, and scrubbing the first gas fraction with said weak acid to bring the acid up to a usable commercial strength.

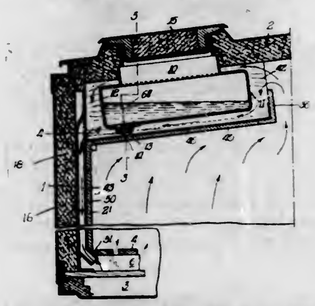
2,402,979
HYDRAULIC LATHE CENTER
Luther A. Barto, Allentown, Pa.
Application December 28, 1943, Serial No. 515,964
4 Claims. (Cl. 82—33)

1. In a center for lathes in combination, a hydraulic cylinder, means for supplying fluid under pressure to said cylinder, a piston in said cylinder, a lathe center slidably operable by said piston extending from said cylinder, a compression spring biasing said piston and said center outwardly with respect to said cylinder, said



means for supplying fluid under pressure including a conduit, a pressure recording gauge in said conduit, a plurality of conduits connecting said pressure gauge with a fluid pressure reservoir, and a manually operable valve controlling admission of said fluid through one of said conduits.

2,402,980
RAILWAY REFRIGERATOR CAR STRUCTURE
Edwin R. Battley and George E. McCoy, Montreal, Quebec, Canada
Application January 26, 1945, Serial No. 574,791
14 Claims. (Cl. 62—17)

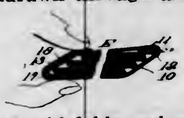


1. In a refrigerator car having an insulated wall and a roof, a liquid refrigerant container adjacent said roof and said wall, a partition spaced below said container forming an air cooling chamber therebetween, said container having apertures to provide for the escape of liquid from said container, a plurality of vertically disposed flues associated with said wall communicating with said air cooling chamber, and means to confine liquid from said container within a portion only of said air cooling chamber and conduct it into certain of said flues only.

2,402,981
BANDAGE PACKAGE
George D. Beal, Pittsburgh, Pa., and Cyril Y. Emery, Westfield, N. J., assignors to Chesebrough Manufacturing Company, Consolidated, New York, N. Y., a corporation of New York
Application February 9, 1944, Serial No. 521,690
4 Claims. (Cl. 206—63.2)

3. A surgical bandage package comprised of a single folded strip of fabric having the successive folded edges offset in stepwise arrangement, said strip being saturated with an adherent and cohesive liquid material, and an envelope of flexible protective material enclosing the pile of folded fabric and sealing said liquid within the package,

the said envelope material being effective upon local pressure to engage and detain the folds adjacent said folded edges selectively according to the point of application of the pressure so that non-detained folds may be selectively and successively withdrawn through an opening parallel



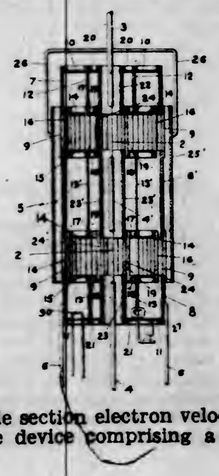
to the edges of said folds and remote therefrom, said envelope also including a weakened portion for permitting the formation of said opening along a line essentially parallel to a doubled edge of said strip of fabric and at a predetermined distance therefrom.

2,402,982
BANDAGE PACKAGE
Charles Steenbergen, Point Pleasant, W. Va., assignor to Chesebrough Manufacturing Company, Consolidated, New York, N. Y., a corporation of New York
Application February 14, 1944, Serial No. 522,309
9 Claims. (Cl. 206—63.2)



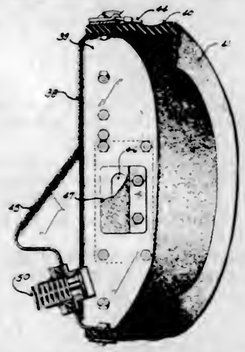
9. A surgical bandage comprising a plaited strip, a protective envelope of flexible, tearable material enclosing and tightly sealing the folded strip against penetration of contamination, one end of the folded strip being folded to form a bight, and a thread in said bight and having its ends secured to portions of the protective envelope whereby upon tearing away said portions of the envelope and forming an opening therebetween the thread is caused to effect unfolding and projection of said one end of the folded strip.

2,402,983
ELECTRONIC DISCHARGE TUBE
William C. Brown, Watertown, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 26, 1941, Serial No. 420,555
5 Claims. (Cl. 250—27.5)



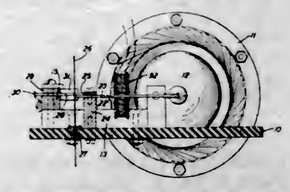
1. A multiple section electron velocity modulation discharge device comprising a plurality of sections, each of said sections comprising a cathode, a cavity resonator adjacent thereto and adapted to have the electron stream emitted from said cathode pass through it, a pair of grids forming part of said cavity resonator and constituting the entrance and exit points with respect to said cavity resonator, and an additional electrode beyond said grids and adapted to intercept said electron stream as it emerges from said cavity resonator, all of said cathodes being electrically connected together, and said cavity resonators being electrically interconnected where loops of oscillations occur on said cavity resonators.

2,402,984
SELF-CONTAINED BREATHING LUNG
Jack Browne, Milwaukee, Wis., assignor to Diving Equipment and Supply Company, Inc., a corporation of Wisconsin
Application August 4, 1944, Serial No. 548,063
6 Claims. (Cl. 128—142)



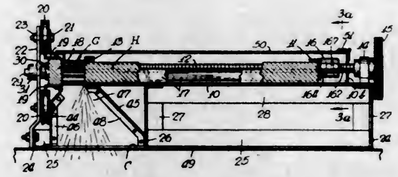
5. In a breathing apparatus of the character described: a mask adapted to be strapped to a wearer's face, said mask comprising a one piece transparent, relatively flat front wall of a size to span the width of the wearer's face and to extend from a point above the wearer's eyes to beneath the nose to thereby afford full vision for the wearer, said transparent front wall being formed with a nose receiving protuberance so as to permit positioning the front wall of the mask closely adjacent to the face of the wearer; and side walls for the mask shaped to hug the face of the wearer with a fluid-tight connection.

2,402,985
MAGNETIC RECORDER
William K. Caughey, Madison, and Karl D. Swartzel, Murray Hill, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 7, 1942, Serial No. 450,018
17 Claims. (Cl. 274—4)



1. The combination with a series magnetic flux path of low reluctance with its end portions adjacent each other, of a flux-shunting member extending from the region of said end portions to an intermediate portion of said path, said member being out of contact with said end portions and so positioned that two gaps are formed each having a portion of said member as one terminal and one of said end portions of said series path as the other terminal, at least one terminal portion of each of said gaps being oscillatable to permit the widths of said two gaps to be simultaneously varied while maintaining their sum substantially constant, said flux-shunting member having a gap therein, means for passing a magnetic record element through said last-mentioned gap, and energy transfer means coupled to said oscillatable terminal portion.

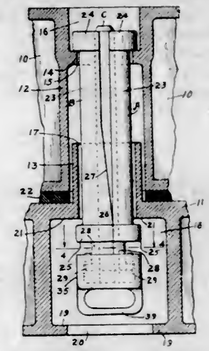
2,402,986
COATING APPARATUS
Thomas George Cunning, Upland, Calif., assignor to Brogdex Company, Pomona, Calif., a corporation of California
Application December 11, 1942, Serial No. 468,636
13 Claims. (Cl. 91—43)



13. In an apparatus for reducing solid waxy or other coating material to comminuted form suitable for coating articles, the combination, with an oscillatory disintegrating member having a substantially upright plane abrading face and comprising a plurality of abrading elements arranged in tiers and rows with a clearance space between each pair of adjacent rows to permit the rapid escape of comminuted material from the respective abrading elements, of a supporting device arranged to support a slab of the solid coating material with one end of said slab in operative relation to the abrading face of the disintegrating member, means for feeding the slab of coating material along the supporting member towards and into contact with the abrading face to allow the latter to disintegrate the end of the slab and discharge the comminuted material through its clearance spaces, and means for oscillating the disintegrating member across the end of the slab of coating material, the supporting device and oscillatory disintegrating member being mounted to provide a free space below the clearance spaces of the abrading face to permit a free escape of the comminuted particles from said clearance spaces.

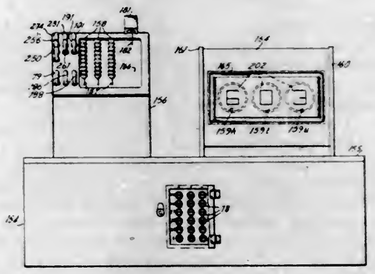
2,402,987
CAR CONSTRUCTION
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 5, 1945, Serial No. 592,142
6 Claims. (Cl. 105—200)

3. In a locking pin of the character described, the combination with elongated outer members having retaining flanges at the top and bottom ends thereof; of an elongated filler element between said members, said filler element being rotatable with respect to said members; supporting ledges at the bottom ends of said outer members; and a hollow locking head at the lower end of said element enclosing said ledges, said head having inwardly projecting, interior lugs adapted to



rest on said ledges to support said element against removal in downward direction.

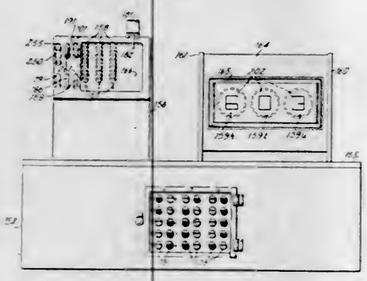
2,402,988
ACCOUNTING APPARATUS
Arthur H. Dickinson, Scarsdale, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,882
32 Claims. (Cl. 235—61)



1. An electrical accumulator comprising a plurality of electronic elements each operable to an on and to an off condition, means controlled by the on condition of one of said elements, conditioning solely the succeeding element in an off condition, preparatory to operation to an on condition, advancing means producing an electrical pulse cooperating with said succeeding element, when conditioned, to turn said element on, said element when on, conditioning said first element preparatory to operation to an off condition, restoring means producing an electrical pulse cooperating with said first element, when conditioned, to turn said element off, each succeeding element bearing the same relationship to succeeding and preceding elements as said first and second elements, an additional element controlled by one, only, of said preceding elements and operable to an on condition upon operation of said one element, only, to an on condition, and operable to an off condition upon operation of said one element, only, again to an on condition, entry control means controlled by a manifestation representative of a digit to be entered controlling the number of applications of said advancing pulses in proportion to the value of a digit to be entered, whereby the on condition of one of said plurality of elements and the on or off condition of said additional element, combinationally represent the value of said digit, and said entry means

controlled by a manifestation representative of another digit to be entered, again controlling the number of applications of said advancing pulses in proportion to the value of said other digit, whereby the on condition of said plurality of elements in combination with the on or off condition of said additional element, combinationally indicate the cumulative value of said first and said second entered digits.

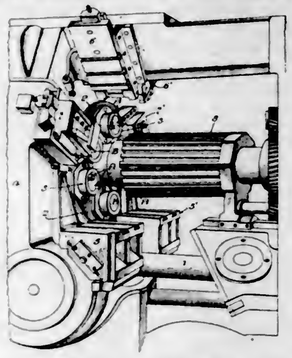
2,402,989
ACCUMULATING APPARATUS
Arthur H. Dickinson, Scarsdale, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,883
51 Claims. (Cl. 235—61)



1. An electronic accumulator comprising a plurality of electronic elements, each including a pair of electron emitting devices with their associated circuits, said devices being operable, simultaneously, to different ones of either of two sustained electrical on and off conditions, means electrically connecting said elements into a closed network, whereby upon application of successive control pulses, said elements are dually, cyclically, sequentially operated, each corresponding device being first sequentially operated to on condition and its companion device to off condition and then each companion device is sequentially operated to on condition and its associated corresponding device to off condition, means controlled by a manifestation, representative of a digit to be entered, to thereby step the on condition of said corresponding portions, sequentially about said closed network and then the on condition of said companion portions, sequentially about said closed network, the patterns of on and off conditions of all portions, manifesting, respectively, different digits of a chosen notation, said means when controlled by a manifestation, representative of another digit to be entered, limiting the number of applications of said control manifestations in proportion to the value of said second digit, to produce a pattern representative of the cumulative values of said digits.

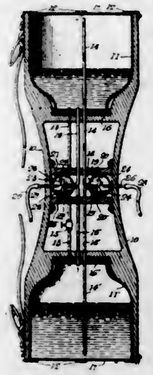
2,402,990
ALTERNATING CUTOFF CHUCKING MACHINE
Alfred E. Drissner, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a corporation of Ohio
Application April 18, 1941, Serial No. 389,165
21 Claims. (Cl. 29—38)

1. In a machine for chucking and machining a pair of articles from a single piece of substantially double size, a series of external chucks for gripping the ends of double sized pieces, tool means for completely machining the exposed portions thereof, a series of internal chucks alternately arranged with the external chucks and adapted to hold the machined portions of the pieces for operation on the unmachined portions



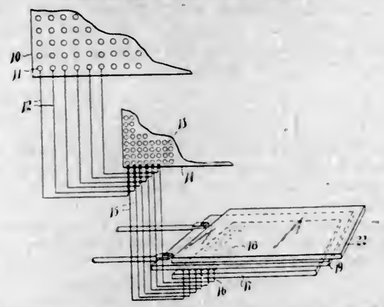
thereof by the same tool means, an indexible carrier for said chucks, and alternately operative means for cutting in half the two complete finished pieces and operative only on the work carried by each alternate chuck.

2,402,991
SUCTION PUMP
Walter A. Dunham, United States Army
Application April 27, 1945, Serial No. 590,567
6 Claims. (Cl. 230—75)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



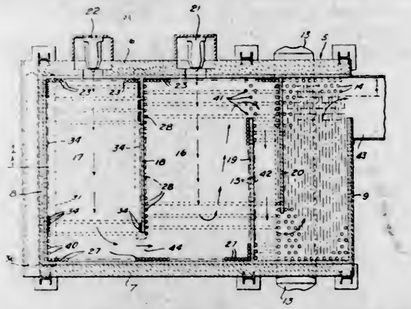
1. A vacuum pump comprising a frame adapted to be placed alternately on either end thereof, a container mounted within each end of said frame, a drain tube connecting said containers and adapted to drain liquid from the upper to the lower container, inlet and outlet seal chambers adapted to be partially filled with mercury, inlet and outlet chamber tubes adapted to connect said chambers to the atmosphere, inlet and outlet container tubes extending from said inlet and outlet chambers to said containers, said inlet tube from the uppermost container terminating above the surface of the mercury within said inlet chamber, and said outlet tube from the lower container terminating below the surface of the mercury in the outlet chamber to allow passage of air from said inlet chamber to said upper container and from said lower container to said outlet chamber.

2,402,992
CONTROL SYSTEM
Francis Percy Elliott, Toronto, Ontario, Canada
Application February 22, 1944, Serial No. 523,489
5 Claims. (Cl. 177—346)



1. A control system for an illuminated display sign including a plurality of electric lamps, said control system comprising a non-electric conductive control panel having electrical connectors, each connector being connectable to a correspondingly positioned electric lamp in the display sign, a non-electric conductive contact plate having rows of electrical connectors terminating in removable contacts, each of said last mentioned connectors being connectable to a selected connector on the control panel, and electrically energized means movable over said contacts for completing the circuits from a source of electrical power to each removable contact in progressive sequence.

2,402,993
STEAM GENERATOR
Fernando Falla, Maplewood, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application July 29, 1939, Serial No. 287,291
3 Claims. (Cl. 122—473)



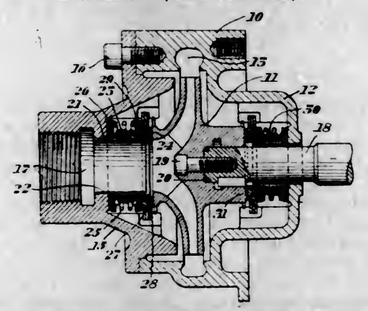
1. In a boiler having upper and lower drums interconnected by a bank of generating tubes and means including front and rear walls defining a furnace space at one side of said bank; a wall dividing said space to form separate furnace chambers including generating tubes arranged in one or more rows extending across said space from said front wall to a point short of said rear wall and leaving a passage for gas flow from one of said furnace chambers to the other; a superheater in said one chamber having tubes arranged parallel to and closely adjacent the generating tubes in said dividing row; individual fuel feeding means for said chambers; and other generating tubes arranged in a row on said rear wall opposite the end of said dividing wall and forming one side of said passage.

2,402,994
PAPERHANGER'S TOOL
John F. Frantz, Chicago, Ill.
Application March 18, 1943, Serial No. 479,596
1 Claim. (Cl. 7—14.1)



Means for adapting a paper hanger's trimming tool to serve as a screw driver, said means comprising a screw driver blade having a pivot aperture and a pivot bolt therefor, said bolt being adapted to replace an original pivot bolt for a cutter wheel in the trimming tool with the screw driver blade disposed on said bolt in contact with its head, said contacting surfaces having interengaging projection and recess means, at least one of the interengaging features having a surface inclined to the axis of the bolt whereby said features may be forcibly disengaged by rotation of the blade about the bolt.

2,402,995
CENTRIFUGAL PUMP
George H. Garraway, Westfield, N. J., assignor, by mesne assignments, to H. K. Porter Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1944, Serial No. 553,357
1 Claim. (Cl. 103—103)

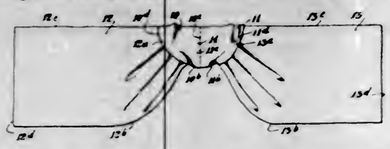


In a centrifugal pump, a housing open at one end, a shaft extending into the other end of the housing, a closure for said open end of the housing having an inlet coaxial with said shaft, an impeller on said shaft having a central inlet at the end nearer said closure, a sealing surface on the impeller normal to the axis thereof and extending around said impeller inlet, a metal suction sleeve extending from said housing inlet toward said impeller inlet and terminating adjacent the latter, a telescoping tube of rubber like material fitting on said suction sleeve, extending therealong from the closure to the impeller and making sealing engagement with both of them at its ends, respectively, said suction sleeve serving to position the inner end of the tube generally with respect to said sealing surface, and a wearing ring on the end of the tube having sliding engagement with said surface.

2,402,996
SCARF
Gladys Whitcomb Geissmann, New York, N. Y., assignor to Merry Hull & Company, New York, N. Y., a partnership
Application January 5, 1944, Serial No. 517,029
4 Claims. (Cl. 2—91)

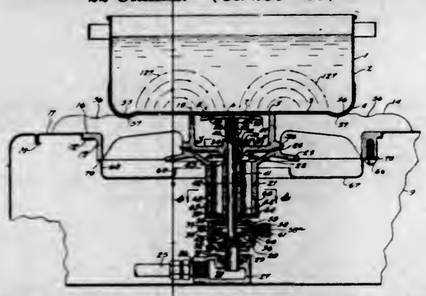
1. A neck scarf comprising a plurality of sections of material joined end to end to form a

center and two end portions, said center portion having one longer and one shorter edge and con-



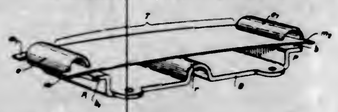
verging end edges, and said end portions having inclined edges joined to said converging end edges.

2,402,997
COOKING UTENSIL AND ITS HEATING MEANS
John H. Grayson, Monrovia, Calif., assignor to Lowell & Grayson, Monrovia, Calif., a limited partnership
Application June 8, 1942, Serial No. 446,203
22 Claims. (Cl. 236—33)



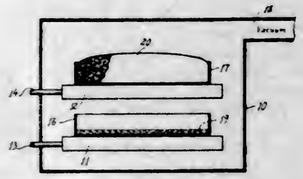
11. In combination, a heater adapted for heating a cooking utensil, said heater having a regulator element movable with respect thereto to regulate the operation of the heater, a cooking utensil adapted to be supported removably in operative relation to the heater, a thermostat forming a part of one wall of said cooking utensil arranged to be heated by the contents of the utensil and removable from the heater with the utensil, said thermostat being movable in response to temperature change of the contents of said utensil, and means operable by said thermostat when the utensil is in operative relation to the heater for heating of its contents to transmit movement from said thermostat to said regulator element, said means being adjustable relative to said regulator element in the direction of movement of said thermostat.

2,402,998
WIPING PLATE
Leon N. Hampton, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 13, 1943, Serial No. 494,573
1 Claim. (Cl. 113—111)



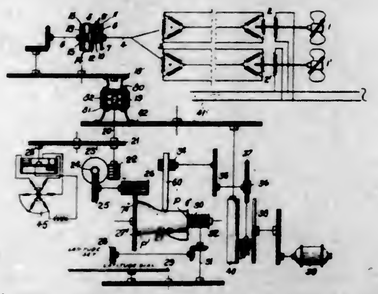
A wiping device for a soldering copper having an electrodeposited iron working surface, said device comprising a tinned rectangularly shaped resilient steel plate, a base having bent portions extending a small distance from the surface of said base to form bearing points, the ends of said plate resting on said bearing points and having longitudinally extending pairs of prong-shaped elements engaging with means formed with said base for securely interlocking therewith, and an abutment carried by said base for limiting the deflecting movement of said plate upon a pressure applied thereon when rubbing the soldering copper, the resiliency of said plate determining the cleaning effect on the iron surface of the soldering copper.

2,402,999
DEHYDRATED CARAMEL COLOR
Wilbert A. Heyman, New York, N. Y., assignor to Granular Foods, Inc., New York, N. Y., a corporation of Indiana
Original application August 3, 1940, Serial No. 351,265. Divided and this application August 21, 1943, Serial No. 499,560
2 Claims. (Cl. 127—34)



1. A solid dehydrated expanded cellular caramel, the cells of which are formed and caused to break into communication with one another by heating liquid caramel and expanding said heated liquid caramel under a high vacuum, said caramel setting in solid dehydrated cellular form, said cells intercommunicating with one another.

2,403,000
AUTOMATIC CORRECTION DEVICE FOR GYROSCOPIC COMPASSES
William R. Hight, St. Albans, N. Y., and Bruno A. Wittkuhns, Summit, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 30, 1937, Serial No. 177,174
10 Claims. (Cl. 73—178)



1. In an automatic correction device for ships' gyro compasses, a variable speed integrating device including a constantly driven disc, a roller carriage radially positioned thereon and a cylinder driven by said carriage, a three-arm differential device including one arm driven at a speed proportional to the ship's speed, and a second arm driven by said cylinder, a follow back connection between the third arm of said differential and said roller carriage to radially position the latter, a computing mechanism in said connection, a latitude setting in said mechanism, whereby said third arm of said differential is positioned

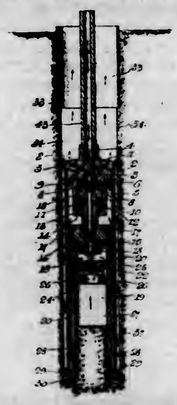
in accordance with the proper function of the speed and latitude of the ship, and means for connecting said third arm to said compass for correcting the latter.

2,403,001
VALVE FOR INTERNAL COMBUSTION ENGINES
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 13, 1944, Serial No. 563,169
8 Claims. (Cl. 123—188)



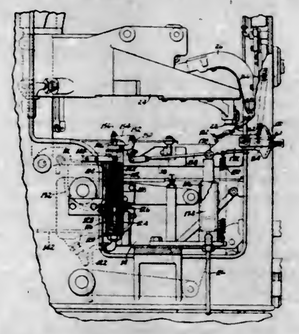
1. A valve installation for internal combustion engines comprising: a valve chamber having a floor and a ceiling, with a valve seat in the floor; a valve having a head disposed in said chamber and movable vertically therein, said head having a rim portion adapted to engage said seat; and sharp edged upward projections on the top of the valve head of a height to just clear the ceiling of the valve chamber as the valve is lifted so as to constantly cut away any carbon deposits which tend to form on the ceiling above the valve.

2,403,002
APPARATUS FOR UNDISTURBED OVERBURDEN SAMPLING
Henry L. Johnson, Denison, Tex.
Application March 6, 1940, Serial No. 322,545
1 Claim. (Cl. 255—72)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An undisturbed soil sampling apparatus comprising a drill barrel, a drill head at one end of the barrel and a drilling shoe at the other, a core barrel within the drill barrel, said barrel including a displaceable liner for facilitating removal of the core adapted to be formed in said liner, means associated with the core and drill barrels for hydraulically removing drill cuttings and loose material from the operating zone of the drilling shoe, means connecting the barrels so as to permit the drill barrel to be rotated relative to the core barrel, said means including a passage establishing communication between the interior of the core barrel and conduits formed in the drill head and opening to its exterior, valve means within the upper portion of the core barrel, said valve means being normally closed but operable to effect communication between the space below said valve means and the lower end of said passage, whereby fluid entrapped in the core barrel will be vented to the exterior of the drill barrel without exposure to the pressure of the circulating drill fluid, means in connection with said barrel head for simultaneously imparting movement to the drill barrel and a downward soil penetrating movement to the core barrel, and means in connection with the lower end of the core barrel and coacting with said barrel to seal the interior of the barrel against the entrance of the drilling fluid.

2,403,003
LASTING MACHINE AND METHOD
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 21, 1945, Serial No. 595,018
31 Claims. (Cl. 12—14)



1. In a lasting machine, means for trimming the margin of one or more inner layers of the toe-end portion of a multi-ply upper on a last while leaving a margin of the outer layer to be lasted over an insole on the last next to the insole, means for pulling all the layers of the toe-end portion of the upper preparatory to the upper-trimming operation and for further pulling the outer layer only after that operation with less force than that applied in pulling all the layers, and means for thereafter lasting the margin of the outer layer inwardly over the insole.

2,403,004
DEESTERIFICATION OF COPOLYMERS OF ACRYLIC ESTERS AND VINYL ESTERS
William O. Kenyon, Thomas F. Murray, Jr., and Louis M. Minsk, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application July 10, 1942, Serial No. 450,404
4 Claims. (Cl. 260—84)

1. A process for preparing a resin comprising preparing a deesterification mixture by deesterifying a copolymer obtained by polymerizing one molecular proportion of a mono vinyl ester of a monocarboxylic acid containing no aliphatic unsaturation and from two to three molecular pro-

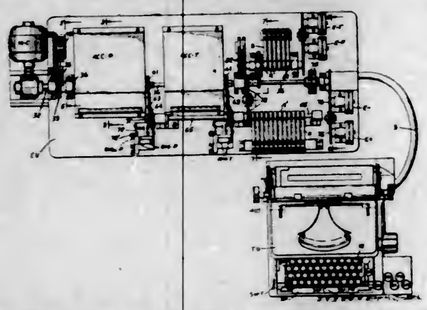
portions of an ester of acrylic acid and a monohydric alcohol containing no aliphatic unsaturation, with a monohydric primary alcohol liquid at 20° C., in the presence of only an acid deesterification catalyst and water, and separating the resin from the acid deesterification mixture, whereby a resin which is soluble in acetone, in methyl acetate and in 1,4-dioxane is obtained.

2,403,005

TYPEWRITING CALCULATING MACHINE

Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corp., New York, N. Y., a corporation of New York

Application November 24, 1939, Serial No. 305,792
26 Claims. (Cl. 235—59)



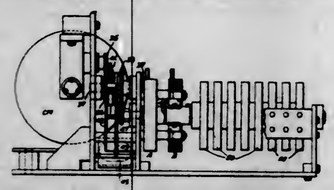
1. The combination with typing means, including digit type-actions and a work sheet support with the type-actions and support having letter-spacing movement relatively to one another, for successively typing the digits of a plurality of factors, each being a multidigit number, of a succession of orders of digit storage devices, means controlled by the typing means concomitantly with typing of the digits for successively entering the digits of the multidigit factors into the orders of storage devices, multiplying means, including means for coacting with the storage devices, for multiplying the factors stored therein, a control device operatively connected with the last digit storage order so as to be automatically rendered effective concomitantly with typing of the last digit of the last multidigit factor and entry of said last digit into the storage orders, and means controlled by the control device, when rendered effective, for automatically initiating operation of the multiplying means to multiply the stored factors.

2,403,006

RECORDER MECHANISM

Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application September 23, 1941, Serial No. 411,964
11 Claims. (Cl. 234—58)



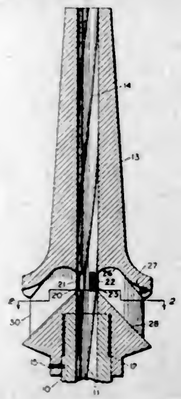
4. In combination, a typewriter with type actions and a sheet support cooperative therewith for typing data, character by character, on the sheet, automatic operating agencies for the type actions, a plurality of separate automatically operable multiorder value registers, means for selecting any one of the registers to have the value registered thereby typed, means controlled by the selecting means for controlling the automatic agencies to operate the type actions to type identifying data on the sheet for identifying the selected register, and means coacting with the selected register, order by order, for controlling the automatic agencies to operate the type actions for typing the value registered thereby, one digit after another, on the sheet.

2,403,007

RECOIL BRAKE

Harry B. Maris, Riverdale, Md.

Application February 23, 1943, Serial No. 476,857
2 Claims. (Cl. 89—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A recoil brake for a gun comprising a one-piece elongate body portion having a central longitudinal bore therein adapted to match the bore of the gun barrel, said body portion including a forward muzzle portion and an enlarged rear vent portion of cylindrical shape and provided with passageways from the brake bore to the cylindrical exterior of said vent portion, the material of the rear vent portion between the passageways constituting substantially streamlined vanes extending radially from said bore to the outer limit of said rear vent portion and terminating in edges longitudinally aligning with the cylindrical exterior of said enlarged rear vent portion, the forward wall for each passageway including a forwardly and outwardly curved portion for receiving explosion gases and the rear wall for each passageway being rearwardly and outwardly inclined throughout its length, said forward muzzle portion serving to increase the effective length of the gun barrel.

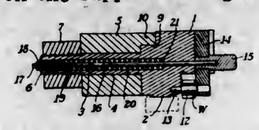
2,403,008

GEAR TESTING WORK HOLDER

Louis D. Martin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 13, 1944, Serial No. 544,747
4 Claims. (Cl. 33—179.5)

1. A work holder for gear testing machines comprising a slotted support, bearings extending transversely of the slot, a trunnion extending through the bearings and adapted to rotatably carry a gear to be tested and mounted in the slot, a pad on the support having a definite relationship to the pitch diameter of the gear to be tested and means for attaching the support to a gear testing machine.

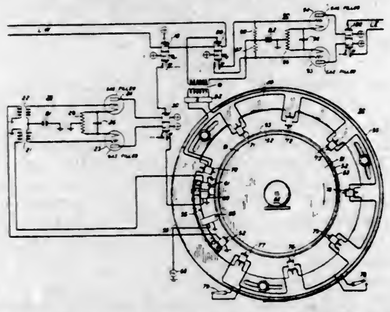


2,403,009

PULSE GENERATING SYSTEM AND ITS USE IN SIGNAL TRANSMISSION SYSTEMS

Thomas A. McCann, Arlington, Va., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 31, 1943, Serial No. 496,908
15 Claims. (Cl. 178—70)



6. A start-stop telegraph repeater for signals of code impulse series comprising impulse receiving means, impulse retransmitting means connected to be responsive to said receiving means, continuously moving pulse producing means responsive to the start impulse of each impulse series from said receiving means to produce a series of accurately spaced timing pulses in isochronism with the signal impulses and circuit means connected between said pulse producing means and said retransmitting means for correct timing by said timing pulses of the impulses of each series as retransmitted by said retransmitting means.

2,403,010

STABILIZED COMPOSITION AND METHOD

Brack B. McHan, Quincy, Ill., assignor to Calcium Carbonate Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 12, 1943, Serial No. 478,938
9 Claims. (Cl. 99—2)

1. In a feed product a composition comprising calcium carbonate carrying adsorbed oxygen and an oxidation-reduction potential reducing reagent selected from the group of materials consisting of sulfur dioxide, sodium sulfide, calcium sulfide, potassium sulfide and elemental sulfur, and a vitamin concentrate.

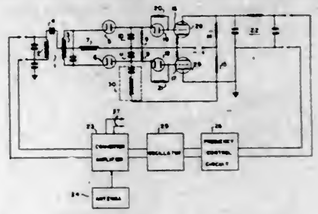
2,403,011

AUTOMATIC FREQUENCY CONTROL CIRCUIT

Edward F. McClain, Jr., Washington, D. C.

Application February 10, 1944, Serial No. 521,886
5 Claims. (Cl. 250—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a frequency responsive circuit for operation by successive discrete wave groups, discriminator means operative to supply a control voltage in dependency on the frequency of the signal, a vacuum tube including a control element, and means for feeding the control voltage to the control element including impedance means having a very low charging time constant and a very high discharge time constant, whereby the control voltage corresponding to the frequency of a wave group is substantially maintained until the arrival of a subsequent wave group.



2,403,012

MAGAZINE LOADER

Leonard L. McPheters, Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War

Application July 26, 1944, Serial No. 546,721
3 Claims. (Cl. 86—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A loader for charging the magazine of a firearm comprising in combination, a body consisting of a channel-shaped member constructed to receive and support a single layer of cartridges therein disposed with their axes parallel and transverse to the base of said channel-shaped body, a shelf extending within and substantially the length of said body, a seater member including a base and a thumb piece secured to the top of said base and disposed at approximately right angles thereto, said base being slidably secured to said shelf, a cover arranged to close the open side of said channel-shaped body and pivotally secured thereto, said cover being provided with a longitudinal slot for permitting said thumb piece to extend upwardly therethrough, and a magazine-supporting arm for holding a magazine adjacent one end of the body while charging the same, said arm consisting of a substantially flat strip of sheet metal pivotally secured to said body.

2,403,013

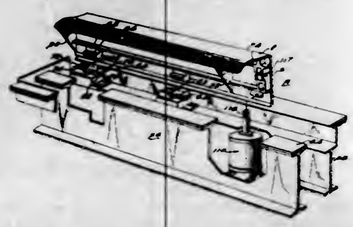
ALKYLATION

Jacob R. Meadow, Memphis, Tenn., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application November 11, 1944, Serial No. 563,093
20 Claims. (Cl. 260—671)

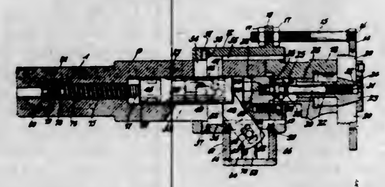
1. The process for alkylating aromatic compounds, which comprises contacting an aromatic compound with a tertiary aliphatic mercaptan in the presence of an alkylation catalyst of the Friedel-Crafts type, in a reaction zone under alkylating conditions.

2,403,014
AIR OPERATED AUTO STOP
Suio M. Nampa, Detroit, Mich., assignor to Grade Crossing Guard Corporation, Memphis, Tenn., a corporation of Tennessee
Original application August 2, 1940, Serial No. 349,886. Divided and this application October 12, 1942, Serial No. 461,684
10 Claims. (Cl. 39—6)



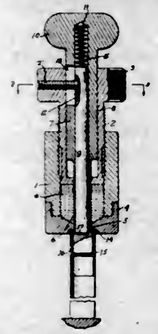
1. In a barrier construction, the combination of a barrier member, a supporting member for said barrier member, means for hingedly connecting said barrier member to said supporting member for movement about a horizontal axis from a retracted position in which the barrier member is embedded in an associated roadway to a projected position in the path of vehicles traversing said roadway, said hinging means comprising at least one hinge pin connected to one of the members and a complementary openly concave element carried by the other member to freely receive the pin, and releasable auxiliary hinge means for limiting separating movements between said pin and element, said auxiliary means being inaccessible from the exterior of said barrier when the latter is in its retracted position.

2,403,015
THREAD CUTTING MECHANISM
Frederic Nell, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application February 23, 1944, Serial No. 523,599
26 Claims. (Cl. 10—145)



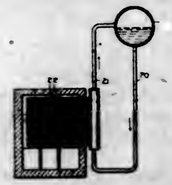
1. In a thread cutting machine, a body provided with a plurality of thread cutting elements radially movable towards and from a common center, plunger mechanism comprising relatively movable parts mounted in said body and one of said parts having an axially movable plunger head cooperatively connected with said cutting elements to recede the same from the work during the threading operation, means for releasably latching the plunger mechanism against movement relative to the body to retain the cutting elements in expanded operative positions, and means interposed between and connected with the relatively movable parts of the plunger mechanism to independently actuate the plunger head and recede the cutting elements from the work in predetermined ratio to the progressive thread cutting action of said elements to form a tapered thread.

2,403,016
APPLICATOR
Robert H. Noble, Wharton, N. J.
Application August 6, 1943, Serial No. 497,709
8 Claims. (Cl. 91—62.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



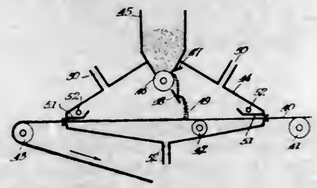
1. An applicator of the character described, comprising a hollow body containing plastic moldable material under pressure, said body having an opening through which increments of said material are successively fed, a punch supported reciprocably in said body with its lower end in said material and adjacent said opening, said punch being adapted to be reciprocated to shear and thereafter compress said material against an abutment supported adjacent said opening to receive the said molded increment, and a rod carried by the punch and extending through said opening, said rod being smaller than said opening and defining, with said opening, the peripheral dimensions of the compressed increment.

2,403,017
STEAM GENERATOR
Karl Folke Nordlund, Ostertalje, Sweden
Application March 22, 1941, Serial No. 384,711
In Sweden March 11, 1940
5 Claims. (Cl. 122—355)



1. A steam generator, where steam is generated in tube coils of preferably small internal tube diameter, each tube coil having a horizontal portion including at least three separate straight coil parts and two tube bends connecting said straight parts, said horizontal portion being disposed entirely in an approximately horizontal plane, all these tube coils being in combination with simple means for obtaining a natural circulation in said coils, these simple means comprising at least one inlet header, which by means of at least one descent pipe is directly connected with the water space of a higher situated steam separator, so that the water flows onto the header and further onto the coils under self pressure and the steam-water-mixture is continuously brought back to the steam separator through the pipe system, only because the steam volume in the riser portions is lighter than an equal water volume in the descent portions of the pipe system, an approximately horizontal flue in which the horizontal portions of the tube coils are arranged so as to form convection heating surfaces which fill up most of the flue, so that the horizontal portions of the tube coils will be parallel to the flow direction of the flue gases and as a consequence the various horizontal tube coil portions are supplied with about equal amounts of heat from the flue gases, each tube coil containing at least two different horizontal portions at different levels, connected with a vertically extended coil portion.

2,403,018
MANUFACTURE OF ABRASIVES
Nicholas Ewing Oglesby, Troy, N. Y., assignor to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts
Application March 3, 1933, Serial No. 659,565
10 Claims. (Cl. 117—26)



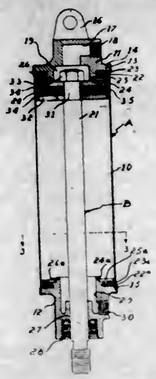
1. In the manufacture of abrasive articles, the step in the process which consists of adding abrasive grains to an adhesively coated backing sheet in an atmosphere charged with the vapor of a solvent for the adhesive.

2,403,019
INHIBITION OF ACID FADING ON CELLULOSE ACETATE WITH MELAMINE RESIN
Henry Charles Olpin and Sydney Alfred Gibson, Spondon, near Derby, England, assignors to British Celanese Limited, London, England, a company of Great Britain
No Drawing. Application February 9, 1944, Serial No. 521,661. In Great Britain February 22, 1943
10 Claims. (Cl. 8—61)

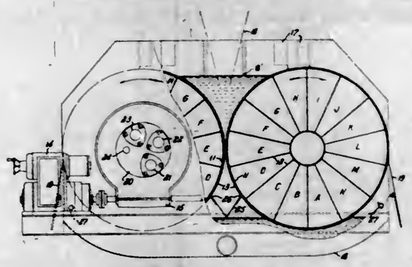
1. Processes for improving the fastness to the combustion products of coal gas of dyeings on textile materials, films and the like, having a basis of an organic derivative of cellulose dyed with a substantially water insoluble dye selected from the group consisting of 1-amino-4-oxy-anthraquinone dyes and 1:4-diamino-anthraquinone dyes, which comprise impregnating the textile materials with a water-insoluble resinous condensation product of an aldehyde with an aminotriazine in an amount at most 2% of the initial weight of the dry materials.

2,403,020
CYLINDER ASSEMBLY
John B. Parsons, Toledo, Ohio
Application March 24, 1944, Serial No. 527,884
1 Claim. (Cl. 309—2)

In an hydraulic cylinder, an elongate sheet metal cylinder, end members closing opposite ends of said cylinder, each end member having a fluid passage leading from the outside to the interior of the cylinder, an outwardly extending shoulder on each end member, a flange on each end of said cylinder embracing said shoulder, a ring-like boss on each end member projecting inwardly from said shoulder and forming with said cylinder an inwardly facing cavity, a resilient rubber ring in each cavity compressed to form a substantially fluid tight seal, a reduced extension on each ring-like boss providing a seat, a metallic washer on each seat, a plurality of radial fingers integral with each reduced extension for securing the respective ring in place, and radial grooves in each reduced extension.



2,403,021
METHOD AND APPARATUS FOR FILTRATION
Clarence Lynn Peterson and Clarence J. Peterson, Salt Lake City, Utah
Application April 28, 1942, Serial No. 440,858
18 Claims. (Cl. 210—201)



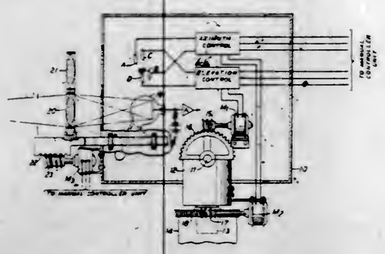
10. Apparatus for continuous filtration comprising an endless filter medium; means for supporting said filter medium and moving said filter medium along a rotary path having upper and lower limits; means for maintaining a body of fluent matter contacting said filter medium on the ascending side of said path and between the upper limit and the center of rotation thereof, such body of fluent matter comprising material to be filtered; means for maintaining a second body of fluent matter contacting said filter medium at and adjacent the lower limit of movement thereof, said second body comprising finely divided precoat material in liquid suspension; means for exhausting liquid to atmosphere by reducing the pressure on the side of said filter medium opposite said bodies while said filter medium is in contact with said bodies for first depositing a layer of precoat material on said filter medium and afterward depositing, on said precoat layer, a layer of solids from said material to be filtered; scraping means for removing substantially all of both said layers at a position on the descending side of said path and below the center of rotation of said filter medium; and washing means below said scraping means for removing adhering solids from said filter medium.

2,403,022
ELECTRICALLY-HEATED DEVICE AND RESISTANCE ELEMENT THEREFOR
Alfred E. Reimers, Harrington Park, N. J.
Application September 18, 1940, Serial No. 357,264
1 Claim. (Cl. 201—67)



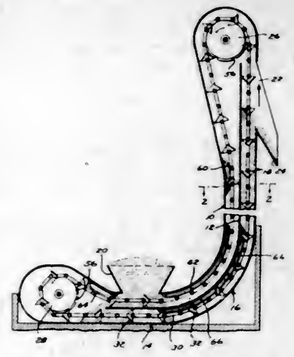
In an electrically-heated device, the combination of an electric-resistance heating element comprising a resistor coil, a compressed mass of electrical insulating and heat conducting material having substantially flat surfaces and completely embedding said coil between said surfaces thereof and providing a preformed unitary body having inherent strength and rigidity, said preformed body having a plurality of tie holes extending between said substantially flat surfaces, and a shell of cast metal in direct contact with substantially the entire area of the surfaces of said body of embedding material, said shell having integral tie portions of said cast metal extending through said tie holes of said body of embedding material and connecting opposite portions of said shell of cast metal.

2,403,023
TELEVISION FOLLOWER APPARATUS
Frederick W. Reynolds, Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 28, 1941, Serial No. 408,587
15 Claims. (Cl. 178—7.2)



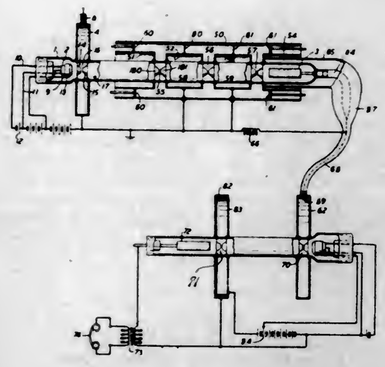
1. Television apparatus comprising a television pick-up device for generating image currents, means for transmitting said currents to a distant point, an image synthesizing device at said distant point for utilizing the transmitted currents to form an image, means associated with said pick-up device for orienting it, means at said receiving point in a position to be operated by an observer of the field of said image for controlling said orienting means whereby said observer may at will aim said pick-up device toward any selected portion of an extended object field, means associated with said pick-up device for automatically maintaining said device oriented toward any selected moving object located by said observer in any part of said field, said automatic means being under control of light received from said field in the vicinity of said object, and means at said receiving point in a position to be actuated by the observer while observing said image field for setting into operation said automatic control means at will, whereby a substantially stationary image of said moving object so selected by said observer is formed in said image field.

2,403,024
FLIGHT CONVEYER
John F. Rixon, Hudson, N. Y.
Application March 17, 1944, Serial No. 526,855
10 Claims. (Cl. 198—171)



1. A flight conveyer comprising a casing, a flexible travelling member movable therein and a series of quarter flight blades carried by said flexible member, each of said quarter flight blades filling approximately a quarter of the cross section of the casing, successive blades filling different portions of the cross section so that substantially the entire cross section of the casing is covered by the combined action of four quarter flight blades.

2,403,025
ELECTRON BEAM DEVICE
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1941, Serial No. 412,067
3 Claims. (Cl. 250—27)



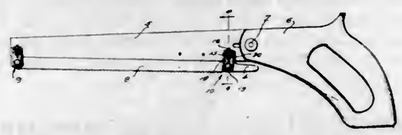
1. In an electron beam device, means for coupling an electron collecting element of said electron beam device to a concentric transmission line, in which the collecting element is directly and conductively connected to the inner conductor of said concentric line, and the outer conductor of said line surrounds said collector and is conductively connected to an electrode of said electron beam device adjacent to said collector.

2,403,026
SELENIUM TABLET AND METHOD OF MAKING AND APPLYING IT
Otto Saslaw, Kearny, N. J., assignor to Federal Telephone & Radio Corporation, a corporation of Delaware
Application April 24, 1942, Serial No. 440,411
6 Claims. (Cl. 117—110)



6. The method of making a selenium element, which comprises compressing amorphous selenium powder at a temperature in the general neighborhood of about 120° C. and a pressure of the general order of several thousand pounds per square inch, to form a selenium wafer, then converting the wafer to the metallic form by heating it at a temperature of the general order of about 170° C. to 217° C., then completely covering by the wafer the surface of a base plate to be coated, and then fusing the metallic wafer to the plate by heating the plate to the fusing point of selenium.

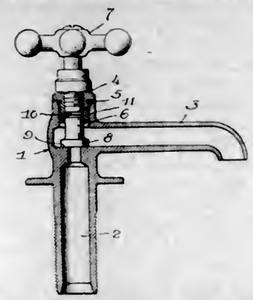
2,403,027
COMBINATION SAW
Earl K. Shoultz, Los Angeles, Calif.
Application March 22, 1944, Serial No. 527,614
2 Claims. (Cl. 145—31)



1. In a device of the character described in combination, a saw back, a replaceable saw edge, connecting means between said back and edge at one end, and additional connecting means between said back and edge at the opposite end, each of said connecting means including means forming apertures in said back and edge, a pair of connecting straps having pairs of apertures therein aligned with said first-mentioned apertures, a headed pin passed through one of said pair of apertures and said saw edge, a securing strip overlying the head of said pin and having an aperture therein aligned with the other of said pair of apertures, a bolt passed through said other of said pair of apertures, said aperture in said saw back, and said aperture in said strip, and a nut for said bolt.

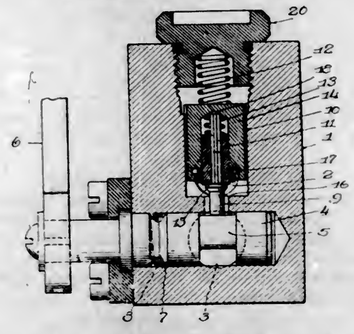
2,403,028
VALVE SEAT SEAL FOR FAUCETS
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application June 14, 1943, Serial No. 490,713
1 Claim. (Cl. 251—160)

In a faucet construction having an inlet and a flat valve seating surface in the body of the faucet surrounding the inlet, a valve stem in the body of the faucet provided with a recess and an annular depending seating flange on the end of the stem, a resilient sealing element carried within the recess and annular flange and provided with a disc-like portion and an annular depending sealing lip at its periphery and having a rounded face extending below the end of the flange, the flange and sealing lip being so arranged that as the stem is lowered against the seating surface, the lip first comes into contact with the seating surface and as the stem is further lowered, compression is placed on the lip until the flange engages the seating surface when



the lip is forced by the pressure of the fluid being sealed into the corner formed between the flange and the seating surface, thereby positively sealing off any leakage around the stem.

2,403,029
HIGH-PRESSURE VALVE CONSTRUCTION
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application November 1, 1943, Serial No. 508,515
3 Claims. (Cl. 251—159)



1. In a high pressure valve and flat seat construction, a valve comprising a pair of relatively movable concentric members each adapted to be moved into seating contact with the valve seat, a recess in the seating face of one of the members and a resilient sealing element securely anchored in said recess having its lower end projecting therebeyond for sealing contact with the seat, said recess being of such dimensions as to accommodate the entire mass of said sealing element when said member is in sealing contact with the seat, said members being so constructed and arranged that when the valve is opened, the member carrying the sealing element is moved and raises the sealing element out of seating contact with the valve seat prior to the other member, and when the valve is closed is moved into sealing contact after the other member has been seated.

2,403,030
CAN
Robert S. Solinsky, Chicago, Ill.
Application October 24, 1944, Serial No. 560,096
11 Claims. (Cl. 220—60)

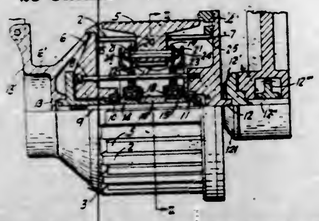
9. A container having an upstanding open neck and a detachable flexible cover, said cover having a downwardly facing channel around the periphery thereof into which the neck extends,

the radially outer wall of the channel surrounding and being spaced from the neck, the facing surfaces of the neck and the outer wall of the channel having interlocking projecting means substantially below the top of the neck and comprising a continuous projection around one of said surfaces and extending towards the other of said surfaces, and a series of spaced projections on said other surface and extending towards said one surface, the interlocking projecting means on the neck being located below the top of the neck and merging with the portion of the neck



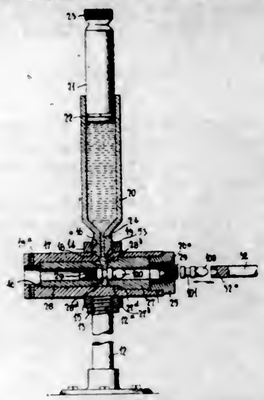
thereabove along smooth surfaces which contact with and stretch the projecting means on the cover radially outwardly against the natural resiliency of the cover during the cover closing operation, the stretch being within the elastic limit of the cover material whereby when the radially innermost part of the projecting means on the cover passes below the radially outermost part of the projecting means on the neck the natural resiliency of the stretched cover forces the cover interlocking projecting means downwardly of the cooperating projecting means on the neck to secure the cover in place.

2,403,031
THREAD-ADVANCING REEL
Richard W. Stanley, Drexel Hill, and William B. Lowe, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application October 29, 1943, Serial No. 508,174
23 Claims. (Cl. 28—71.7)



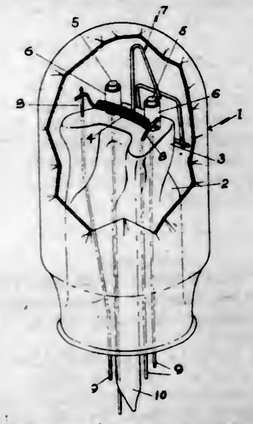
1. Reel mechanism comprising a set of spaced longitudinally extending bar members, means for rotatably mounting said set of bar members about an axis, a second set of spaced, longitudinally extending bar members interdigitating with the members of the first set, flexible and resilient means for supporting the second set rotatably about an axis offset with respect to the axis of rotation of the first set, and means for imparting to a selected part of the second set of bar members at predetermined intervals a substantially axial reciprocatory motion relative to the first set of bar members, said motion-imparting means comprising at least one member mounted for rotation with the bar members of the second set upon an axis askew to the axis of the bar members of the second set and arranged to co-operate with the bar members of the second set through rigid extensions connected thereto.

2,403,032
METHOD AND APPARATUS FOR SIZING AND LUBRICATING BULLETS
William G. Stevens, Jr., Sykesville, Md.
Application March 2, 1942, Serial No. 433,050
12 Claims. (Cl. 86—19)



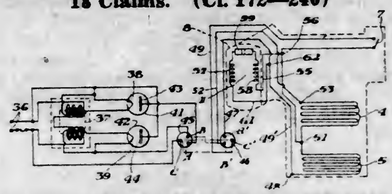
2. An apparatus of the character described, comprising a bore having an entrance end, die means arranged in the bore, a sleeve in the bore between said die means and the entrance end of the bore adapted to grasp an object inserted into the entrance end of the bore, and means for forcing a bullet through said sleeve and said die means away from the entrance end of the bore.

2,403,033
GASEOUS ELECTRICAL SPACE DISCHARGE RECTIFYING DEVICE
Paul W. Stutsman, Waltham, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application March 31, 1942, Serial No. 436,939
6 Claims. (Cl. 250—27.5)



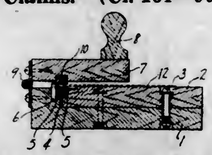
1. A gaseous electrical space discharge rectifying device of the type in which a glow discharge changes to an arc comprising an envelope, an ionizable gas in said envelope for supporting a discharge, an anode and a cathode in said envelope between which the discharge is adapted to occur, said cathode having a coating of electron emissive material, said coating including thorium oxide, said thorium oxide having a weight of the order of 4% to 8% of the weight of the electron emissive material.

2,403,034
INTERMITTENT CURRENT OPERATED MOTOR
Carl S. Weyandt, Homer City, and Edward J. Missien, Indiana, Pa., assignors to Syntron Company, Homer City, Pa., a corporation of Delaware
Application March 9, 1943, Serial No. 478,500
18 Claims. (Cl. 172—240)



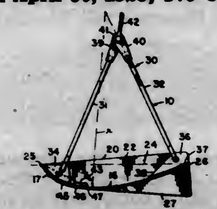
1. In combination, a vibratory armature motor having a plurality of actuating coils, a series wound rotary motor connected in shunt with one of said coils of the vibratory motor, a source of alternating current, and a rectifier interposed between said source and each of the actuating coils to supply alternate spaced unidirectional current impulses thereto, whereby the operating efficiency of both motors is increased over that when operated independently by the rectifier.

2,403,035
PERFORATING DEVICE FOR INDEX CARDS
John W. Whitson, New York, N. Y.
Application January 20, 1945, Serial No. 573,721
2 Claims. (Cl. 164—90)



1. In a perforator for preparing an index card for the reception of selective card tabs, the combination of card perforating members, pressure means, arranged to contact with the perforating members, for forcing the perforating members into a card, elastic pressure means in association with said pressure means, resilient stripping means for stripping a card from the said members, which stripping means is compressed against the said perforating members by the said pressure means, a base in which the perforating members and stripping means are supported, and a clamping block mountable in said base for clamping said members and stripping means in the base.

2,403,036
WATER KITE
Kenneth H. Wilcoxon, Cabin John, and Louis Landweber, Bethesda, Md.
Application June 1, 1944, Serial No. 538,312
7 Claims. (Cl. 114—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a water kite, a longitudinally curved rectangular shear plate, stabilizing plates fixed to the sides of the shear plate, means for attaching a tow line to the kite, and a weight fixed within the concave side of the shear plate along its forward marginal edge portion.

2,403,037
CORROSION-RESISTANT HIGH-STRENGTH ALLOYS, AND METHOD
Paul P. Zeigler and Leland E. Householder, Louisville, Ky., assignors to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
No Drawing. Application August 14, 1943, Serial No. 498,726
6 Claims. (Cl. 148—21.1)

3. A wrought, heat-treated and artificially aged corrosion-resistant aluminum base alloy having a relatively high zinc content, composed of zinc 5–10%, magnesium 1–3.5%, copper 0.5–3%, nickel .05–.5%, and at least one of the heavy metal grain refining elements consisting of vanadium .03–.5% and chromium .10–.5%, balance aluminum, the alloy being produced by solution heat treatment within critical temperatures between 760° F.–840° F., quenching, and then artificial aging at temperatures between 275° F.–350° F.

2,403,038
SURFACE-ACTIVE AGENTS
David Aelony, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 14, 1944, Serial No. 568,199
16 Claims. (Cl. 260—468)

1. Sulfonates of dialkyl esters of alloöcimene-maleic anhydride adduct, the alkyl group of said esters containing from 5 to 10 carbon atoms.

2,403,039
FOUNTAIN PEN
Marlin S. Baker, Evansville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application September 18, 1944, Serial No. 554,640
10 Claims. (Cl. 120—47)

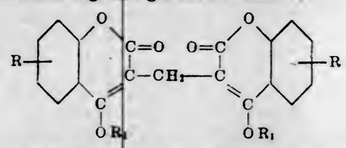


1. A filling device for a fountain pen comprising a body structure, a diaphragm secured at one end to said body structure and closed at its other end, and a plunger extending through and reciprocably supported by said body structure and having a head located within said diaphragm, said diaphragm being held by said head in an expanded bulbous form between said head and

the body structure and being pneumatically caused to assume a flattened form beyond said head, said head being slightly larger in diameter than the normal expanded diameter of said diaphragm to distend the diaphragm about said head and thereby provide a seal to prevent air from being forced around said head and into the portion of the diaphragm beyond said head.

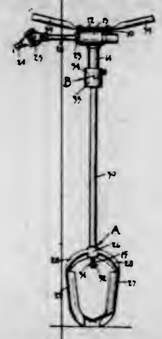
2,403,040
COLOR PHOTOGRAPHY
Abraham Bavley, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 6, 1944, Serial No. 543,749
12 Claims. (Cl. 95—6)

5. The method of producing a magenta color photographic image in a gelatino silver-halide emulsion layer which comprises exposing the layer and developing it with an aromatic primary amino developing agent in the presence of a coupler compound having the general formula:



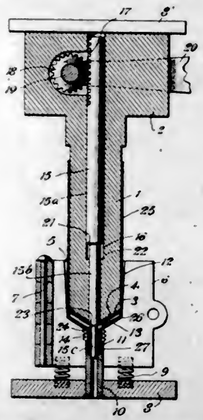
in which R is selected from the class consisting of hydrogen, halogen, alkyl, acylamino, sulfoacylamino, aryl and aralkyl groups, and R_1 is selected from the class consisting of hydrogen, alkyl and acyl groups.

2,403,041
POST-HOLE DIGGER
Leo Jacob Beyerink, Union Township, Carroll County, Iowa
Application September 4, 1944, Serial No. 552,670
2 Claims. (Cl. 255—19)



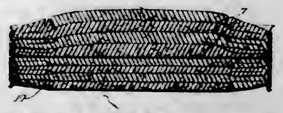
1. A post-hole digger comprising a case-like body, a driving shaft journaled in said body and depending therefrom, a counter-shaft journaled in the body and adapted to be rotated through flexible means from a remote source of power, transmission gearing housed within said body and interposed between said counter-shaft and drive shaft for rotating the latter from the former, an auger including a tubular shaft, a yoke medially secured to the lower end of said tubular shaft, and blades on the branches of said yoke, said tubular shaft being telescopically fitted over the drive shaft for rotary and sliding movements thereon with the lower end of said drive shaft extending beneath said yoke, a clutch having interengageable members, one on the drive shaft and one on said tubular shaft, handle means on the body for manipulating the digger to lower said body relative to the grounded auger and effect the downward sliding movement of the drive shaft relative to said tubular shaft to cause the interengagement of said clutch members, said handle means serving also in the manipulation of the digger to elevate said body relative to the auger and thus effect an upward movement of the drive shaft relative to the tubular shaft to cause the disengagement of said clutch members, and a limit stop on the drive shaft engageable with said yoke to arrest the upward movement of the drive shaft relative to the tubular shaft following the disengagement of said clutch members.

2,403,042
APPARATUS FOR MAKING COLLAPSIBLE TUBES
Boris Bogoslowsky, Jackson Heights, N. Y.
Application August 10, 1944, Serial No. 548,895
8 Claims. (Cl. 93—36)



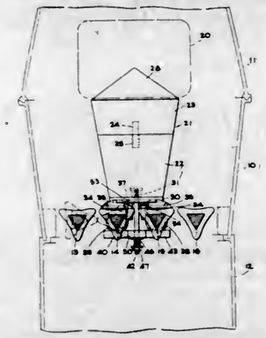
1. Apparatus for making a finished collapsible tube from an embryo tube having a tubular body and a shoulder and elongated tubular neck integral with said tubular body, comprising a mandrel adapted to support said embryo tube internally, means for pressing the shoulder of the tube against said mandrel, means for applying longitudinal pressure to said neck to compress the neck material and shorten and thicken the neck while maintaining the pressure on the shoulder, and means for applying internal radial pressure to said neck to additionally compress the neck material.

2,403,043
MATTRESS
Joseph W. Bowersox, St. Petersburg, Fla., assignor to Sealy, Incorporated, Memphis, Tenn., a corporation of Delaware
Application May 10, 1943, Serial No. 486,328
3 Claims. (Cl. 5—355)



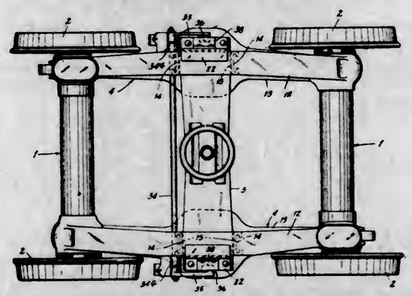
1. A mattress comprising connected side and end walls with an intermediate flexible but nonstretching partition connected to the inner faces of the walls, a plurality of layers of stuffing or filling material in the mattress spaces on both faces of the partition, the layers being folded over inwardly at their marginal edges to fit tightly within the side and end walls, and at least one layer of stuffing or filling material disposed within the inwardly turned edges of the layers applied to the mattress spaces at each side of the partition.

2,403,044
FURNACE DEVICE
Thomas H. Breen, Buffalo, N. Y., assignor of one-half to Charles A. Kennedy, Buffalo, N. Y.
Application March 22, 1945, Serial No. 584,065
11 Claims. (Cl. 126—148)



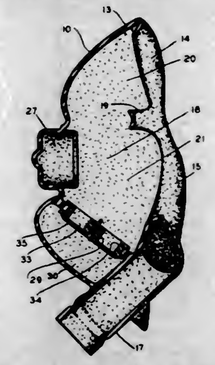
1. Apparatus for use in a solid fuel fired furnace having a fire pot and a plurality of parallel oscillatable grate bars, said apparatus comprising a body element disposable centrally of the fire pot, body element supporting means fixed to the grate bars for oscillation therewith, said means and the lower portion of said body element having interengaging surfaces formed to permit oscillation of the grate bars without displacement of the body element, and means engaging between said body element and said grate bars for preventing upward movement of said body element from said supporting means.

2,403,045
CAR TRUCK
Tracy V. Buckwalter, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Original application December 29, 1941, Serial No. 424,692, now Patent No. 2,352,162, dated June 27, 1944. Divided and this application April 20, 1944, Serial No. 531,849
4 Claims. (Cl. 105—197)



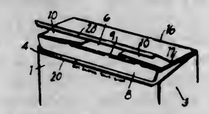
1. A car truck comprising wheeled axles, side frames connecting said axles and having bolster openings therein, springs in said bolster openings, a bolster having its ends disposed in said bolster openings and supported on the springs therein, and means mounted on said side frames and cooperating with said bolster for equalizing the load on the bolster supporting springs of both side frames, said means comprising a rock shaft extending crosswise of said truck alongside of said bolster from side frame to side frame and rotatably supported therein, each end of said bolster having a horizontal slideway extending crosswise thereof, and said rock shaft having two arms rigid therewith outwardly of the respective side frames, each directly supported at its free end in a slideway in an adjacent end of said bolster for movement relative thereto both longitudinally and transversely of said truck.

2,403,046
MASK CONSTRUCTION
Arthur H. Bulbulian, Rochester, Minn.
Application July 19, 1943, Serial No. 495,374
5 Claims. (Cl. 128—142)



1. A mask comprising a body portion, face-contacting inhalation tubes about the lower part of the margins of the mask as worn, inwardly turned flap portions about the upper part of the mask as worn, said portions at the apex being engageable by the nose of the wearer, and a strap-like member connected with the tubular portions and the flap portions and positioned to engage the upper lip of the wearer as the mask is worn, thus forming a unitary breathing chamber with two openings thereinto, the upper opening receiving the nose and the lower opening the mouth of the wearer, the strap member being formed and positioned to engage the upper lip under stress so as to cause the contacting portions of the inhalation tubes and the flap members to be drawn inwardly upon the contacted portions of the face of the wearer to seal the breathing chamber about the mouth and the nose.

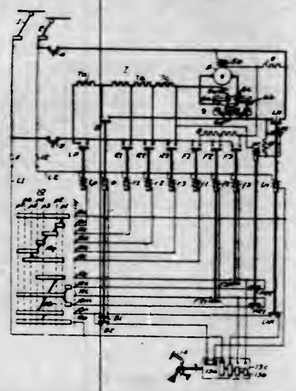
2,403,047
CARTON OR CONTAINER
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application September 29, 1944, Serial No. 556,358
6 Claims. (Cl. 229—43)



1. A carton formed of an integral blank and comprising front, rear and end walls and a sealing flap overlapping one of the end walls and

adhesively secured thereto, inner closure members extending from the ends of the rear wall and having out-turned flap extensions on their front edges, the flap extension at one end being adapted to constitute a tucking flap after the carton has been opened, end closure members extending from and hingedly joined to the end walls and hingedly joined to the ends of the inner closure members, said end closure members having longitudinal slits extending from the end edges thereof with diagonal folds extending from the inner ends of the slits to the juncture of the hinge connection for said inner and end closure members, said end closure members being folded upon themselves along said diagonal fold lines and folded inwardly upon said inner closure members, the said edge flaps of said inner closure members being folded over said end closure members, and outer closure members extending from the end edges of the front wall and folded upon said inner and end closure members and adhesively secured thereto, said end closure members being held in a collapsed folded position between said inner and outer closure members, the outer closure member at the top end of the carton being scored in spaced parallel relation to the front wall to facilitate the extending of the overlying edge flap of the inner closure member to tucking position when the front wall is cut along a line adjacent to but spaced from the top end thereof and the end closure members are severed from the end walls.

2,403,048
ELECTRIC MOTOR CONTROL SYSTEM
Charles James Caldbeck, Bradford, England, assignor to The English Electric Company Limited, London, England, a British company
Application December 11, 1943, Serial No. 513,877
In Great Britain November 27, 1942
6 Claims. (Cl. 172—179)



6. Electric traction equipment comprising an electric traction motor having a series field winding and a shunt field winding, a starting resistor for the motor, a manually operable multi-position controller, resistor shunting contactors operable in one sequence in response to progressive forward movement of the controller and in the reverse sequence in response to progressive return movement of the controller shunt field weakening contactors operable in one sequence in response to progressive forward movement of the controller but not operable in response to the return movement of the controller until it is being moved into its off position, a rheostatic braking contactor having an operating coil, a manually operable brake switch for controlling the energization of said coil, said brake switch being electrically interlocked with said controller, and sequentially operable contact members on said brake switch for progressively closing said shunt field contactors to strengthen the motor shunt field during rheostatic braking.

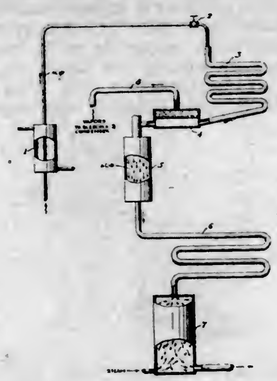
2,403,049
METHOD OF MAKING CRANKSHAFTS BY ELECTRIC WELDING
Fritz A. Carstens, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 31, 1942, Serial No. 456,783
3 Claims. (Cl. 29—6)



1. In the manufacture of crankshafts for large Diesel engines and the like from separately forged and heat-treated parts, the steps of welding two cheek units together comprising providing a welding dam spacing the faces of corresponding pin stubs on the units and extending diametrically across the same to provide two substantially equal welding grooves, mounting the units in a fixture with said welding dam disposed horizontally, depositing a layer of weld metal in the groove above the dam from a metal arc welding electrode and fusing the same therewith and with the metal of the side walls of the groove by an electric arc established between said electrode and the parts being welded, rotating the fixture to present the other welding groove uppermost, cleaning the welding dam and similarly arc-depositing weld metal thereon in said second groove, alternately and similarly depositing additional layers of weld metal in the two grooves and providing end dams to retain the weld metal at the end edges of the grooves until the latter are completely filled, the weld metal being peened as successive deposits are cooled, and finally removing said last-named welding dams and machining the outer surface of the weld to constitute a part of the cylindrical surface of the pin.

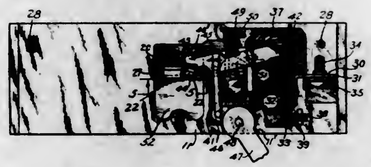
2,403,050
CONCENTRATION OF NITRIC ACID
Francis Stapleton Chambers, Jr., Woodbury, N. J., and Robert Nifong Gartside, St. Louis, Mo., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 22, 1942, Serial No. 455,776
1 Claim. (Cl. 202—40)

A process for concentrating nitric acid which comprises the steps of heating a flowing stream of a mixture of nitric and sulfuric acids to its boiling point, separating the vapors of strong nitric acid from the liquid, condensing the vapors without further enrichment, passing the liquid nitric and sulphuric acid mixture to the top of a vertical vapor-liquid counter current contact zone, removing liquid from the bottom of the zone, supplying sufficient heat to the bottom of the zone to vaporize the nitric acid and force the vapors of nitric acid up through said zone, intimately contacting the nitric acid vapors moving upwardly through the zone with the liquid flowing downwardly through said zone by dispersion of the respective vapor and liquid streams,



thereby enriching the vapors, removing the strong nitric acid vapors from the top of said contacting zone and condensing said vapors.

2,403,051
CIRCUIT BREAKER CONSTRUCTION
Paul M. Christensen, West Hartford, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J., a corporation of New Jersey
Original application May 9, 1941, Serial No. 392,618, now Patent No. 2,352,517, dated June 27, 1944. Divided and this application March 3, 1944, Serial No. 524,864
5 Claims. (Cl. 200—168)

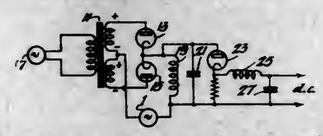


1. In an electric switch mechanism, the combination of a casing having a wall provided with a recess opening into the interior of the casing, relatively movable switch contacts supported within the casing, a terminal connected to one of said switch contacts, a bus bar connected to the other switch contact and having sufficient length to project at one end beyond one side of said casing, the other end of said bus bar being adapted to extend into said recess in the wall of said casing, complemental formations respectively formed on the casing and bus bar integral with casing and bus bar, respectively, and adapted to interengage when the bus bar is moved from a tilted position within the casing to its operative position therein, and a cover for the casing having an opening therein through which said one end of the bus bar extends when operatively positioned in the casing, one wall each of said opening and recess engaging said bus bar when in its operative position and cooperating with said complemental formations to maintain the same interengaged and said bus bar in its operative position in the casing during operation of the switch mechanism.

2,403,052
METHOD FOR EFFECTING CATALYTIC DEHYDROGENATION PROCESSES
Robert M. Cole and Irving I. Shultz, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 17, 1942, Serial No. 451,372
6 Claims. (Cl. 260—683.3)

1. In a catalytic dehydrogenation process using a water-sensitive heavy metal oxide dehydrogenation catalyst wherein carbonaceous deposits are periodically removed from the catalyst by burning with an oxygen-containing gas, the method of obtaining a substantially sulfur-free product while avoiding contamination of the catalyst by iron and while preventing damage to the catalyst by sulfur dioxide in the periodic regeneration by a burning treatment, which comprises maintaining between 0.0006 and 0.05% sulfur in the feed to be hydrogenated discontinuing the process before the catalyst is saturated with sulfur under the reaction conditions, then removing sulfur as hydrogen sulfide from the catalyst to a concentration between 0.001 and 0.005 pound per cubic foot by reaction with water vapor prior to said burning treatement.

2,403,053
REMOTE CONTROL SYSTEM
James W. Conklin, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1942, Serial No. 467,454
5 Claims. (Cl. 175—363)

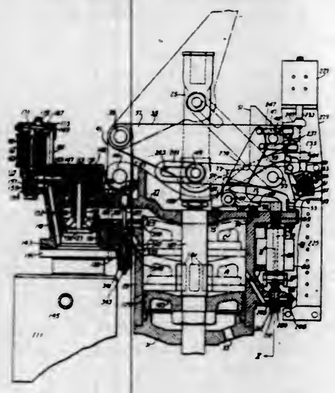


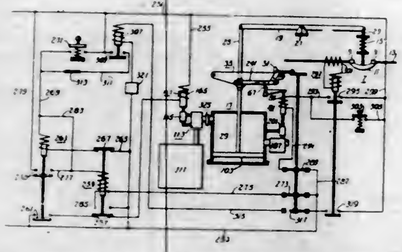
1. The method of deriving, from a variable amplitude alternating voltage, a unidirectional voltage with variations in magnitude similar to and substantially simultaneous with the variations in amplitude of said alternating voltage, comprising the steps of producing a constant amplitude alternating voltage of relatively high frequency, modulating said high frequency voltage with said variable amplitude alternating voltage to provide at least two side-band frequency products, filtering said products to isolate one of said side band products, rectifying said isolated product, and filtering said rectified product to remove the high frequency components thereof.

2,403,054
SEPARATION OF CONJUGATED DIOLEFIN ISOMERS
David Craig, Silver Lake Village, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
No Drawing. Application September 22, 1941, Serial No. 411,889
6 Claims. (Cl. 260—681.5)

1. The method of separating the isomers of piperylene which comprises reacting a mixture of said isomers with sulfur dioxide under such conditions that the principal reaction occurring is between low-boiling piperylene and sulfur dioxide to form monomeric piperylene sulfone, separating the sulfone from the unreacted materials, recovering the high-boiling piperylene from the unreacted materials, and decomposing the sulfone to liberate the low-boiling piperylene.

2,403,055
CIRCUIT BREAKER
Richard C. Cunningham, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 15, 1941, Serial No. 410,870
25 Claims. (Cl. 175—294)

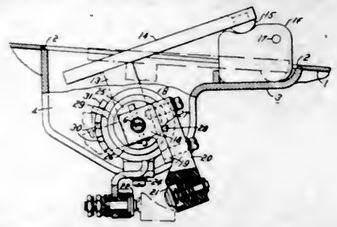




1. In combination, a circuit breaker, operating mechanism for said breaker, power means for actuating said mechanism to close the breaker, said power means being operable to effect normal closing operation of the breaker and also operable to effect quick automatic reclosing operation of the breaker after the circuit is interrupted and at least by the time the breaker reaches full open position, and automatically selective means for causing a greater average closing force to be applied to said breaker on a quick automatic reclosing operation during that portion of the closing stroke traversed on quick automatic reclosing operation than during the same portion of the closing stroke on normal closing operation.

2,403,056
STARTING DEVICE
Thomas A. Daly, Sharpsville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 22, 1945, Serial No. 579,229
7 Claims. (Cl. 200—52)

1. An electric switch having particular, but not exclusive, utility for the starting equipment of a torpedo having a substantially conventional shell, or housing, said switch comprising an off-set bell-crank lever, switch contacts disposed substantially in fixed relation in the shell, a bearing structure for the lever, said structure including a recess open to the outside of the shell but so secured to the shell that the medium surrounding the shell may enter the recess only, said bell-crank lever being mounted in a fluid tight manner in bearing structure so that one arm of the lever is disposed in the recess projecting away from the axial region of the shell but falling short of the outer surface of the shell and the other arm disposed within the shell and projecting toward the axial region of the shell, said other arm carrying switch contacts disposed to cooperate with the switch contacts mounted within the shell, means for producing a biasing torque on the lever so that the switch contacts are brought into engagement



when the lever is released to rotate, a bar rigidly attached in substantially perpendicular relation to the said one arm and projecting toward the aft region of the torpedo, a removable lug disposed under the projecting end of the bar to normally prevent rotation of the bell-crank lever by the biasing means, said lug being designed to be secured to a lanyard attached to the craft launching the torpedo, whereby launching of the torpedo removes the lug to thus cause operation of said lever to effect engagement of the switch contacts.

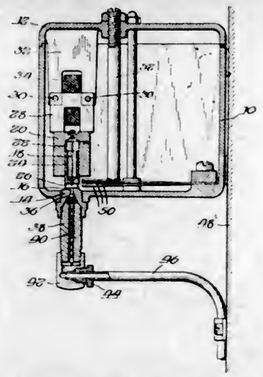
2,403,057
MOORING DEVICE
Charles A. Davis, Peoria, Ill.
Application April 26, 1944, Serial No. 532,734
3 Claims. (Cl. 114—230)



1. In a mooring device, a flush face deck plate having a depressed open section in alignment with a tapered T slot section, a mooring line thimble having a projecting mating T head section for the T slot section in the deck plate proportioned and formed for insertion in the T slot section through the open section, the transverse projecting sections of the T head parts being formed in mated angular keyed relationship with the sections tapered longitudinally away from the open slot, the arrangement providing a snug gripping latched fit in the longitudinal direction away from the slot and reverse release movement by relatively light manual force, and a safety line ring integral with the mooring line thimble providing attachment means to either a buoy or a vessel.

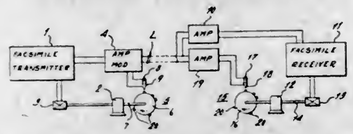
2,403,058
LUBRICATING DEVICE
Ernest W. Davis, River Forest, Ill.
Application February 26, 1943, Serial No. 477,208
5 Claims. (Cl. 184—26)

1. In a lubricating device, a plurality of vertically movable weights; means for alternately raising and releasing said weights to produce vertical reciprocating movement thereof; a plurality of pumps, each said pump being actuated by said motion of one of said weights; means for supplying lubricant to said pumps; a resilient stop for each said weight to limit the downward move-



ment thereof; each said stop being stressed to exert a force in an upward direction; and adjustable means for overcoming said force in each said stop, and for selectively positioning each said stop to provide a predetermined lowermost position for its corresponding weight, all of said stops being integral with each other.

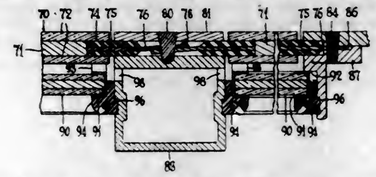
2,403,059
SECRECY TELEFACSIMILE SYSTEM
Garett Van der Veer Dillenback, Jr., Slingerlands, and Austin G. Cooley, Hudson View Gardens, N. Y., assignors, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y., a corporation of New York
Application May 11, 1940, Serial No. 334,516
18 Claims. (Cl. 178—69.5)



1. In a secrecy signaling system of the type having a signal transmitter and a signal receiver which are to be maintained in motional synchronism, a synchronizing impulse producer at the transmitter, means to rotate said producer to generate synchronizing impulses having non-uniform spacings between successive impulses, an impulse responder at the receiver, and means to transmit and apply said synchronizing impulses to said impulse responder, said responder locking itself in synchronism with the impulse producer only in response to said non-uniformly spaced impulses.

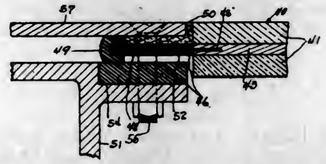
2,403,060
INSTALLATION FOR LAMINATED GLASS
Daniel T. Downes, Creighton, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application April 23, 1943, Serial No. 484,189
4 Claims. (Cl. 189—64)

1. In a closure installation, a pair of laminated window sections forming portions of a continuous wall section, strip metal mounted in each of said window sections and extending therefrom to form a mounting border, the strip metal from one window section overlapping the strip metal of the other section and including an integral metal-



to-metal welded connection therebetween, and means engaging the overlapping strip metal to serve as a support for the window sections.

2,403,061
WINDOW CONSTRUCTION
Daniel T. Downes, Creighton, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application June 16, 1943, Serial No. 490,990
2 Claims. (Cl. 189—64)

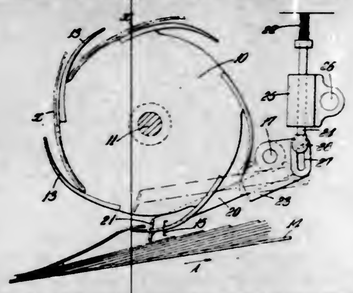


1. In a closure structure, an interlayer of organic plastic, glass plates bonded upon opposite sides of said interlayer to form a laminated unit, resilient sheet metal in strip form having one marginal portion disposed in the interlayer between the marginal portions of the glass plates and extending therefrom in the form of a mounting flange, a channel member of rubber compound surrounding the perimeter of the laminated unit and having the outer edge of the sheet metal flange disposed in the channeled portion of said member, supporting clamping structure embracing the channel member in clamped fluid-tight relation and leaving a flexible flange area between the edges of the glass and the area of clamping on said member, said channel member maintaining the clamping structure in spaced overlapping relation to the mounting flange, the edge of the outer overlapping portion of the clamping structure terminating short of the edges of the glass, and a layer of yieldable mastic filling the space between the overlapping clamping structure and the outer side of the mounting flange.

2,403,062
DELIVERY MECHANISM FOR PRINTING MACHINES
James Henry Edwards, London, England, assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application June 11, 1943, Serial No. 490,404
In Great Britain July 2, 1942
1 Claim. (Cl. 93—93)

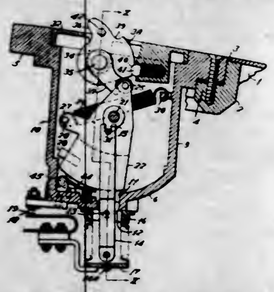
In a delivery mechanism for a printing machine having a late news or like printing unit involving the spoiling of certain copies, the combination with a rotary fly, a conveyor, stripper means and a count kicker lever adapted to position count copies on said conveyor in angular displacement relative to other copies thereon, of a further lever adapted to position spoilt copies on said conveyor in a position of angular displacement relative to unspoilt copies opposite to said first mentioned angular displacement, said lever

comprising a bracket, said bracket being formed with a slot therein, a solenoid adapted to be energized concurrently with a change in the operation of said late news or like unit, the armature of said solenoid being connected to said lever by a pin adapted to slide in said slot, and means of



returning said armature to initial position upon said solenoid being de-energized, said armature being adapted to actuate said lever into and out of operative position by means of said pin operating against the respective end surfaces of said slot.

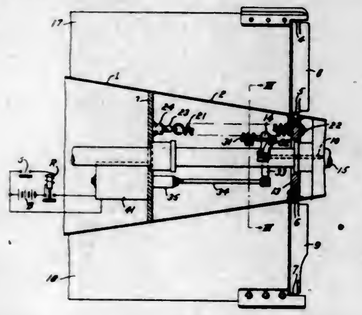
2,403,063
SWITCH
William B. Elmer, Lakewood, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 16, 1945, Serial No. 578,156
7 Claims. (Cl. 200—52)



1. An electric switching device of particular utility with the starting equipment of a torpedo having a cenventional shell, said switching device comprising in combination, a well adapted at its upper edges to be hermetically secured to the torpedo shell, a lever pivoted in the well and having one end, when said lever is in non-operated position, projecting beyond the surface of the shell and the other end provided with a cam, a pendulous inertia member pivoted in the well and restrained against movement by said cam when said lever is in non-operated position regardless of acceleration of said well, and switch contacts operable by said pendulous inertia member upon simultaneous operation of said lever and acceleration of said well.

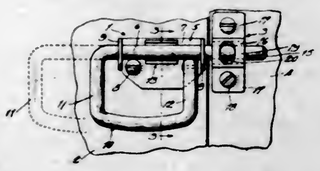
2,403,064
RUDDER CONTROL SYSTEM
William B. Elmer, Lakewood, Ohio, and Ralph R. Rimer, Sharon, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 8, 1945, Serial No. 621,079
9 Claims. (Cl. 114—23)

1. In means for operating a pair of rudders for a conveyance moving through a fluid medium, in combination, a conveyance having a tail structure, a pair of rudders, bearings in the tail structure for the rudders, the bearings and thus the rudders being so disposed transversely of the longitudinal direction of the conveyance, a rudder actuating element coupled to the rudders, a relatively short crank arm projecting from the element, a relatively long spring at one end attached to the crank arm and at its other end secured



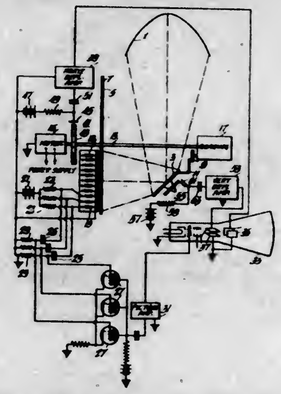
to the tail structure, whereby the rudders are biased hard-over to one side of the conveyance and whereby movement of the rudders from one hard-over position to the other hard-over position does not affect appreciable change in the spring moment on the crank arm, a second crank arm disposed in the opposite direction, and a single solenoid operatively coupled to the second crank arm for operating the rudders in opposition to the biasing force of the spring.

2,403,065
LATCH
Harry Engert, Chicago, Ill.
Application November 15, 1943, Serial No. 510,327
4 Claims. (Cl. 292—57)



1. A latch comprising a bolt supporting bracket and a latch bolt slidably mounted therein, said bracket having a base to be secured to a support and a pair of ears extending forwardly from said base having aligned apertures in which the bolt slides and may swing about the axis of the bolt, said bolt having a loop handle portion swingable and slidable with the bolt, the sides of which straddle one of said ears and one of the sides of which is straddled by said ears, said bracket being provided with abutment means located in the path of sliding movement of said straddled side of the loop in one position of the swingable loop and located out of the path of sliding movement of said straddled side in another position of the swingable loop, said latch bolt being formed of a continuous rod having a continuous straight portion extending through said ears to form the bolt, the loop portion being continuous with said straight portion, the end portion of the loop extending to a position adjacent said abutment means so as to be engageable therewith.

2,403,066
SYSTEM FOR FORMING IMAGES OF HEAT-RADIATING OBJECTS
John Evans, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 28, 1943, Serial No. 515,879
6 Claims. (Cl. 178—6.8)



4. A system for producing a visible image of an object radiating heat waves of a length greater than the longest waves of visible light including in combination means for forming an image of the heat radiation from said object, a row of heat responsive elements for converting applied heat into electrical currents, means for applying successive lines of said heat image to said elements to convert the applied image into a series of electrical currents, means for rectifying said electrical currents, a cathode ray tube having control and beam deflecting electrodes, means for applying said rectified currents to said control electrode, and means connected to said deflecting electrodes for deflecting said beam synchronously with the application of said lines to said elements.

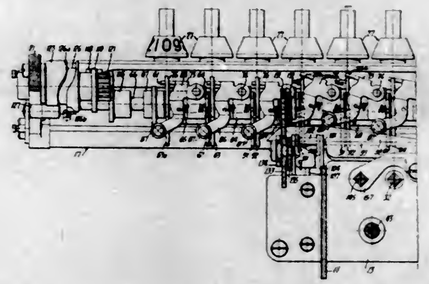
2,403,067
ANTICORROSION COMPOSITION
Paul W. Fischer, Long Beach, and Vance N. Jenkins, Palos Verdes Estates, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application September 8, 1943, Serial No. 501,728
15 Claims. (Cl. 252—51)

1. A non-aqueous anti-corrosion composition comprising mineral oil in which is dissolved in the order of 0.001% to 2.0% of a material containing an oil-soluble alkanol amide of an unsaturated non-hydroxy fatty acid, the alkanol constituent containing at least four carbon atoms and the fatty acid constituent containing at least ten carbon atoms.

2,403,068
MANUFACTURE OF CHEMICAL COMPOUNDS
Arvel O. Franz, Alton, Ill., and Leslie H. Juel, St. Louis, Mo., assignors to Olin Industries, Inc., a corporation of Delaware
No Drawing. Application June 25, 1941, Serial No. 399,738
9 Claims. (Cl. 260—553)

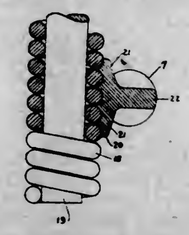
1. In the manufacture of dialkyldiarylureas, the process comprising interacting carbonyl chloride with a mixture, containing a dialkylarylamine and 5 to 40 mol percent of a monoalkylarylamine, at a temperature between the decomposition point of the hydrochloride of the said dialkylarylamine and the boiling point of the said mixture, the carbonyl chloride being added in an amount equal to about 60 to 90 percent of the total theoretically required by the said mixture.

2,403,069
CALCULATING MACHINE
Carl M. Friden, Pleasanton, and John L. Moody, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application June 2, 1941, Serial No. 396,306
16 Claims. (Cl. 235—133)



1. In a calculating machine having a frame, a carriage mounted for endwise shifting movement on said frame, and a series of numeral wheels in said carriage; a tens transfer assembly for said numeral wheels mounted in said carriage, said assembly including a series of ordinal transfer units mounted for axial reciprocation and for rotary oscillation as a whole, each unit including an element for sensing the condition of a numeral wheel to control a transferring operation and an actuating element for cooperation with the next higher order numeral wheel when a transferring operation is determined, each transfer unit including a releasable coupling between the sensing element and the actuating element thereof.

2,403,070
FILAMENT JOINT FOR ELECTRIC LAMPS OR SIMILAR DEVICES
John W. Fulton, Wickliffe, Ohio, assignor to General Electric Company, a corporation of New York
Application March 1, 1945, Serial No. 580,316
4 Claims. (Cl. 176—38)

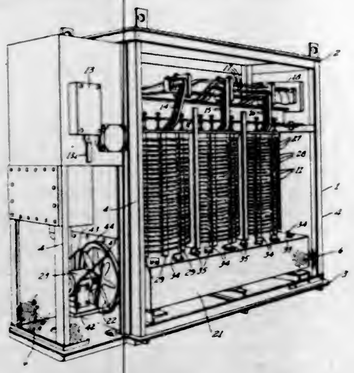


4. In a filament connection, the combination with a round support rod laterally flattened locally, of a multi-turn wire coil extending across the surface of the locally flattened portion of said rod at an angle to the rod and having the sides of its convolutions welded to said surface.

2,403,071
CAUSTIC PRODUCTS
Clyde B. Gardenier, Belleville, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
No Drawing. Application November 29, 1941, Serial No. 421,076
11 Claims. (Cl. 252—192)

1. A hard porous composition of matter produced by fusing a mixture of a major proportion of caustic alkali and a minor proportion of a cellulose-containing material and a member of the group consisting of silica and water-soluble silicates, reacting said mixture at a temperature above fusing so that a gas is generated and a porous structure is produced, and cooling so as to harden the porous product.

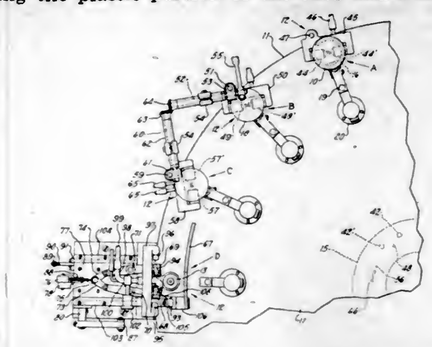
2,403,072
ELECTRICAL INDUCTION APPARATUS
Henry S. Gates, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1943, Serial No. 492,874
9 Claims. (Cl. 175—361)



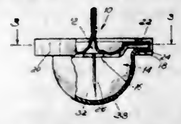
1. In electrical induction apparatus, a core structure having a vertically positioned winding leg, a plurality of cylindrical windings about the winding leg, spaced from the leg and from one another to provide spaces for the free flow of air as a cooling and insulating medium upwardly along the inner and outer surfaces of the several windings, a housing positioned below the windings providing a chamber, means for directing air under pressure into the chamber, an opening in the top of the housing positioned centrally of the windings for directing the flow of air under pressure upwardly within the several windings, and openings in the top of the housing positioned below and about the outer winding and arranged for directing air under pressure upwardly and inwardly against the outer winding for causing the flow of air upwardly along the winding.

2,403,073
METHOD AND APPARATUS FOR GAS FILLING AND TIPPING-OFF ENVELOPES
Walter J. Geiger, Cleveland Heights, and Reginald J. Ayres, Shaker Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application September 29, 1943, Serial No. 504,252
10 Claims. (Cl. 226—20)

2. The method of gas-filling and sealing a bulb having a vitreous exhaust tube extending therefrom, which comprises exhausting the bulb through said tube, heating a portion of the tube to a plastic condition, stretching and constricting the plastic portion of the tube and simultaneously introducing into the bulb a gas filling at a pressure substantially in excess of atmospheric pressure, and then quickly pinching the plastic portion of the tube to close it off.



2,403,074
HYPODERMIC INJECTION DEVICE
Bertram J. Goldsmith, Neshanic, N. J.
Application May 18, 1943, Serial No. 487,442
4 Claims. (Cl. 128—216)

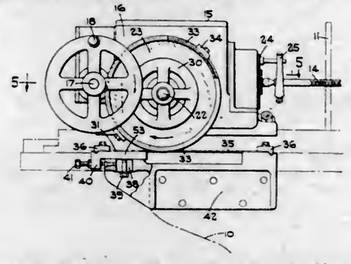


1. A hypodermic injection device comprising a collapsible envelope containing the fluid to be injected and only partly filled with said fluid, a diaphragm secured within said envelope and dividing the same into two chambers, said diaphragm having openings therethrough to allow the free passage of the fluid from one chamber to the other, a hypodermic needle enclosed within said envelope and secured to said diaphragm and projecting therefrom into one of said chambers with the outlet end of the fluid passage of the needle in position to penetrate through the wall of said last mentioned chamber when the portion of said envelope which confronts said end of the needle is pressed thereagainst axially of the needle, the inlet end of the fluid passage of said needle being in communication with the other of said chambers whereby the fluid in said envelope is expelled through said needle by collapsing said envelope to reduce the volume thereof.

2,403,075
MACHINE FOR PRODUCING SCREW THREADS
Arthur Green, Coventry, England
Application June 14, 1944, Serial No. 540,285
In Great Britain April 14, 1943
3 Claims. (Cl. 90—11.40)

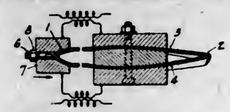
1. A machine for producing screwthreads comprising an element for supporting rotatably the work upon which the screwthread is to be produced, means for rotating said work, an element adapted to support a tool for forming the screwthread, said work supporting element being mounted on said tool supporting element for reciprocatory movement relative thereto in a direction substantially along the axis of the thread to be formed, a shaft mounted rotatably

on said work supporting element disposed transverse to the direction of reciprocation of said work supporting element, means for imparting rotary movement to said shaft, a disc mounted detachably on said shaft, a pair of flexible bands arranged side by side and engaging the periphery of the disc, one end of each of said bands being secured to the disc, means securing the other ends of said bands adjustably to the tool supporting element, said adjustable means permitting of adjustment of said band ends relative to the tool supporting element in a direction



parallel to the direction of reciprocation of said work supporting element and in a direction at right angles thereto and within the plane of the disc, said two band ends which are secured to the tool supporting element extending in opposite directions with respect to each other and substantially parallel to the direction of reciprocation of said work supporting element, and said rotary disc on rotation in either direction being adapted to wind up and unwind respectively relative to the disc one or the other of the said two bands.

2,403,076
ELECTRIC FLASH WELDING
William C. Heath, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 2, 1943, Serial No. 481,571
3 Claims. (Cl. 219—10)

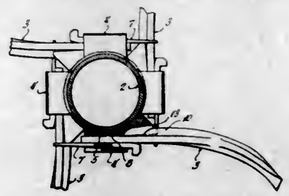


1. In the electric flash welding of a generally V-shaped edge piece to a foil in the construction of an airplane propeller, the steps of forging temporary integral projections on the peak of the edge piece and spaced apart longitudinally thereof, securing extensions to said projections, placing the piece in a welding electrode which confines the same with a wedging action and with the longitudinal edges exposed for welding, securing the extensions to the electrode to prevent movement of the piece relative to the electrode during welding, electric flash welding a foil to an edge of the piece, thereafter removing the piece from the electrode, and then permanently removing the projections from said edge piece.

2,403,077
LAMINATED STRUCTURE AND METHOD
Albert Hershberger, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 6, 1942, Serial No. 429,835
10 Claims. (Cl. 117—75)

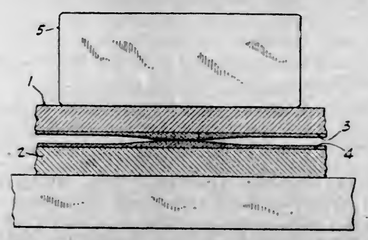
1. A method for providing metal surfaces with a protective layer of polyvinyl compound which comprises first applying to the metal surface a liquid composition consisting of (*a*) a polymer of a monovinyl compound, (*b*) thermo-setting resin ingredients comprising a polyhydric phenol, an aldehyde, and a polymerization catalyst, and (*c*) an organic solvent for constituents (*a*) and (*b*), causing said resin ingredients to react to form a substantially insoluble, infusible resin whereby to form an adhesive base coat on said metal surface, and finally associating a layer comprising essentially a polymer of a monovinyl compound with said base coat.

2,403,078
EXCAVATING TOOTH
Henry C. Hettelsater, Whitefish Bay, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 26, 1944, Serial No. 537,450
10 Claims. (Cl. 97—216)



7. In a high speed rotary earth cutting drum having a rotatable shaft and a plurality of radially disposed cutting teeth; mounting means for said teeth secured to said shaft, each of said mounting means comprising a socket for holding the inner end of a tooth, retaining means in said socket adapted to preclude withdrawal of a tooth held therein, and stopping means rigidly associated with said shaft and socket, disposed to permit a predetermined tangential deflection of a tooth held in said socket and to engage the rear of said tooth in the near vicinity of said socket to limit tangential deflection of said tooth at said socket without limiting further deflection of said tooth beyond said point of engagement.

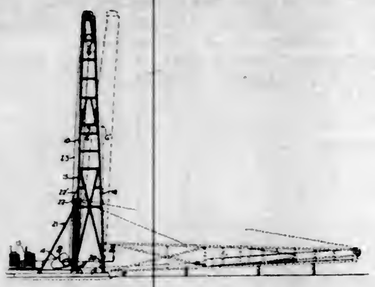
2,403,079
JOINDER OF PORCELAIN ENAMELED PRODUCTS
Waldo W. Higgins, Whitefish Bay, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 30, 1942, Serial No. 441,201
6 Claims. (Cl. 154—2)



1. The method of joining metal members by a fused ceramic material bonded to their opposed adjacent surfaces, comprising coating the said surfaces of the members with ceramic enamel with the outer surfaces of the coatings curved relatively to effect a substantially restricted initial contact therebetween when assembled for joining, assembling said members with the

enamel coatings in pressure contact, and heating the members to effect softening of the enamel with attendant progressive increase in the area of contact therebetween to thereby interfuse said coatings substantially free from gas bubbles at the juncture.

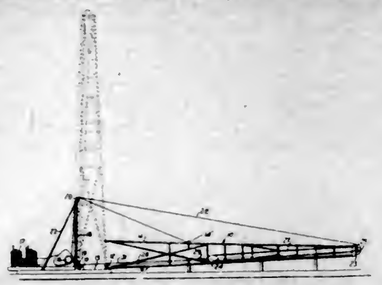
2,403,080
METHOD AND MEANS FOR RAISING AND LOWERING PORTABLE DERRICKS
Howard D. Hilborn, Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application May 6, 1944, Serial No. 534,419
5 Claims. (Cl. 189—15)



1. A portable derrick assembly comprising a supporting base, a derrick which is tiltable on the supporting base between erect and reclining positions, rear legs for said derrick having their lower ends positioned rearwardly of the center of gravity of the erect derrick and front legs for said derrick having their lower ends positioned forwardly of such center of gravity, a rear mounting means for pivotally mounting the lower ends of each of said rear legs on said base and for permitting separation of said rear legs from said base, and front mounting means for mounting the lower ends of each of said front legs on said base, the front mounting means for each front leg including an upwardly extending member on said base having vertically spaced first and second load supporting shoulders thereon, a projection on each front leg for engaging said first shoulder for supporting said front legs while said derrick is in erect position, said projection being removable from engagement with said first shoulder to permit initial forward tilting of said derrick about said rear mounting means, and a second projection on each front leg positioned above said second shoulder while said derrick is in erect position but engaging said second shoulder after said initial forward tilting has occurred to thereafter support said front leg whereby further forward tilting of said derrick is about said second shoulder as a center.

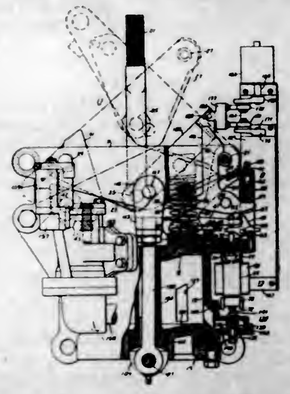
2,403,081
PORTABLE DERRICK
Howard D. Hilborn, Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application August 12, 1944, Serial No. 549,256
8 Claims. (Cl. 189—15)

1. A system of moving a derrick from one position to another about a pivoting center for the derrick, comprising: a base upon which the derrick is mounted for pivoting movement; crown and traveling blocks carried by said derrick and adapted to be interconnected by plies of cable; cable pulling means; a variable length cable secured at one end to said cable pulling means trained about the sheaves of said crown and traveling blocks and having its other end anchored to said base; a gin pole provided with sheaves; and



a constant length line connecting said traveling block and at least a leg of the derrick, said line running over said gin pole sheaves, intermediate its length, and connected to the leg of the derrick above the pivoting point thereof.

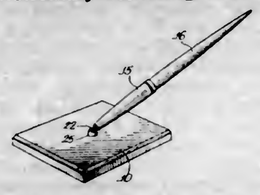
2,403,082
CIRCUIT BREAKER
Allan W. Hill, Wilkinsburg, and James M. Cumming, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 4, 1942, Serial No. 437,669
20 Claims. (Cl. 200—82)



1. A high speed operating mechanism for a circuit breaker comprising a motor operable by gas under pressure to close the breaker, a source of gas under pressure, an inlet valve for admitting gas under pressure to said motor to close the breaker, latch means for releasably connecting the motor to the circuit breaker, means for quickly reducing the gas pressure in the motor, means for automatically reconnecting the motor to the circuit breaker, and electroresponsive means for operating the latch means and simultaneously initiating operation of the pressure reducing means.

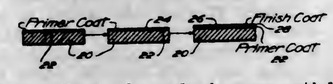
2,403,083
DESK SET MOUNTING
Philip C. Hull, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application September 21, 1944, Serial No. 555,109
13 Claims. (Cl. 120—108)

1. A desk set mounting adapted to be removably secured to a base comprising a writing instrument receptacle, a socket swingably receiving one end of said receptacle, a washer within said socket frictionally engaging said end of the receptacle, said socket being slitted in its lower end to provide a plurality of radially expansible segments for frictionally retaining the socket in an



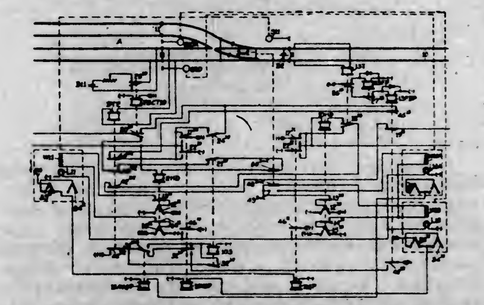
aperture in the base, a cam member within said socket for expanding said segments, and a spring interposed between said washer and said cam member to cause said washer to frictionally bear against said end of the receptacle and tending to cause said cam member to expand said segments.

2,403,084
APPLICATION OF MARKINGS TO SURFACES
Paul E. James, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1942, Serial No. 428,492
4 Claims. (Cl. 41—26)

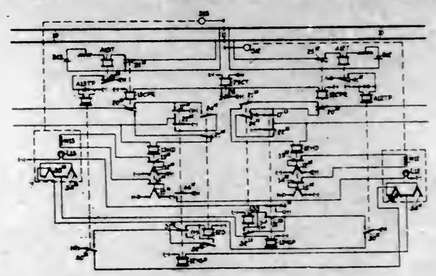


4. The method of producing an article with a painted surface carrying colored markings, comprising applying a primer coating material to the article, drying the primer coat, applying an organic dye to the dry primer coat in a configuration corresponding to the desired colored markings, applying a finish coating to the article, the finish coating including film forming resins and a solvent for the resins capable of dissolving the organic dye whereby the dye penetrates both into the primer coats and through the finish coating, and treating the finish coating to dry and harden the coating.

2,403,085
CODED TRACK CIRCUIT SIGNALING SYSTEM
Thomas J. Judge, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application February 14, 1941, Serial No. 378,961
31 Claims. (Cl. 246—33)



1. In combination, a section of railway track, a track circuit for said section including a source of current at one end and a track relay at the other end of said section included in series, an electro-responsive device, a pair of line wires extending along said section of track, a line relay and a source of current for each end of said pair of line wires, contacts operated by said electro-responsive device for intermittently opening and closing said track circuit and for in synchronism therewith alternately connecting the line relay



and the source at that end of said section to that end of said line circuit, contacts on said track relay for alternately connecting the line relay and the source at the track relay end of said section to said line circuit in synchronism with the connection of the source and the line relay to the opposite end of said line wires, and traffic governing signals controlled by said line relays.

2,403,086
ELECTRODE HOLDER
Max S. Kenworthy, Portland, Oreg., assignor to C. L. Harsch, Portland, Oreg.
Application April 29, 1944, Serial No. 533,304
2 Claims. (Cl. 219—8)

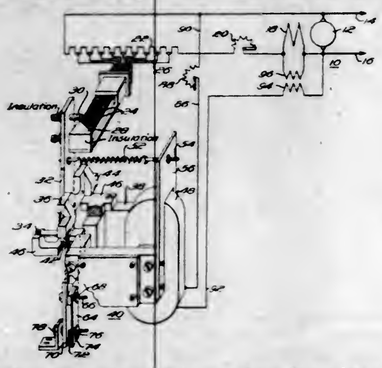


1. An electrode holder comprising a pair of spring-opened gripping members pivotally joined together, one of said gripping members being relatively fixed and the other being movable, cooperating electrode holding jaws formed upon the adjacent ends of said members, respectively, a manually operable, pivoted handle, spring actuating means therefor, said handle operatively engaging said movable member at a point intermediate its pivotal connection with the fixed member and the jaw formed on the extremity thereof, for applying gripping pressure to close said jaws, the spring actuating means for the handle and the spring opening means for the gripping members being a common member.

2,403,087
ELECTRICAL APPARATUS
Joseph F. Kovalsky, Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1942, Serial No. 463,979
2 Claims. (Cl. 200—104)

1. In a regulator for controlling an electric quantity over a predetermined working range, a control device comprising, a plurality of contact members disposed to be actuated in sequence, a member disposed to actuate the contact members, a cross-spring pivot for the actuating member, a biasing means secured to the member to effect a non-linear pull thereon to actuate the member in one direction about its pivot, electro-responsive means disposed to be energized for

actuating the member in the opposite direction about its pivot, a stop means disposed adjacent the actuating member to limit the movement thereof in the one or opposite directions, and a spring means carried by the actuating member, the spring means having a free end disposed for movement between the limits of the stop means

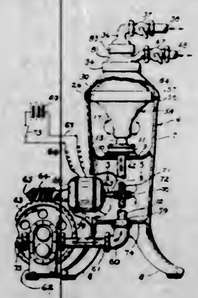


whereby the spring means is free from bias when actuated the limit in the one direction and engages the stop means when actuated in the opposite direction to apply a compensating force to the actuating member to render the actuating member sensitive to a change in the energization of the electro-responsive means.

2,403,088
METHOD OF TREATING OILS
Kenneth Malcolm Laing, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 25, 1943, Serial No. 507,642
2 Claims. (Cl. 196—147)

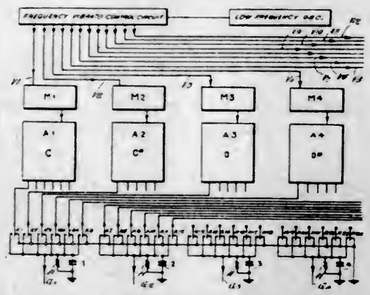
1. The method of treating oils which comprises contacting the oil with an adsorbent composed of alumina and fuller's earth proportioned in ratio of not less than about 1 and not more than about 10 parts of alumina to 1 part of fuller's earth, said alumina being an adsorptive product prepared by heating within the range of 250 to 800° C. a substance selected from the group consisting of aluminum hydrates and alumina in gelatinous form containing free or loosely held water.

2,403,089
CENTRIFUGAL SEPARATOR
Ernest Lara, Melrose Park, Ill.
Application April 30, 1943, Serial No. 485,143
2 Claims. (Cl. 233—21)



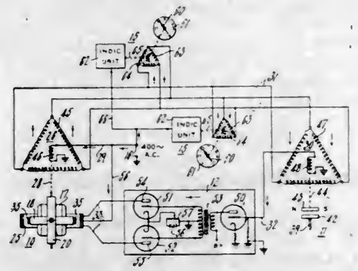
1. A separator comprising, an outer frame, a rotor mounted in said frame adapted to separate the coagulate element from the liquid element components of a fluid passing therethru, rotatable inlet means secured within said frame and connected to said rotor, the said rotor consisting of an upper pear-shaped body casing secured to an inverted lower pear-shaped body casing, the said upper casing rotatably confined in said outer frame and provided with an outlet, a central support having a flange portion secured to a recess within the said lower rotor casing, the said central support further provided with an upright shaft portion having a central opening at its extremity opposite the said flange portion, the said opening communicating with a central passage terminating in an angular passage offset with respect to said central passage opening at the surface of said upright shaft portion, a cup-shaped baffle element secured to the said upright shaft portion and confined within the said upper rotor casing, a multiplicity of flat disc-shaped separator elements of varied perimetral configurations receding in size from the mid portion of said rotor toward each of its ends, the said disc-shaped separator elements being mounted on the said upright shaft portion, the said disc-shaped separator elements further provided with a series of drilled openings in perpendicular registry and a number of bumped portions maintaining the said disc-shaped separator elements in predetermined spaced relationship, and dual exhaust means one branch thereof connected to the said opening in the said upright shaft portion and the remaining branch thereof connected to the said outlet in the said upper pear-shaped casing, the assemblage of the said disc-shaped separator elements and the said cup-shaped baffle element defining an annular pear-shaped passage communicating with one branch of said dual exhaust means, the other branch of said dual exhaust means communicating with the opening and the offset passage in the said upright shaft portion of the said central support.

2,403,090
ELECTRONIC ORGAN
Merwin J. Larsen, Rochester, N. Y., assignor to Central Commercial Company, Chicago, Ill., a corporation of Illinois
Application September 19, 1944, Serial No. 554,837
38 Claims. (Cl. 84—1.22)



1. An electrical musical instrument employing generators producing complex waves of oscillations having tone frequencies for a range of more than an octave of notes of the chromatic scale, a keyboard, each playing-key of which controls an electric switch; a wave translating device, switches controlled by respective playing-keys of said keyboard arranged in separate groups and connected with preassigned generators producing waves having the tone frequencies of notes associated with sequentially related playing-keys of said keyboard, the switches of each separate group connected together by a common output lead; means connecting the output leads of said groups of switches into respective filter systems through separate paths, said filter systems producing waves differing from waves in said output leads only in their harmonic composition above the fundamental frequency components thereof; and a mixer interconnecting said filter systems with said translating device.

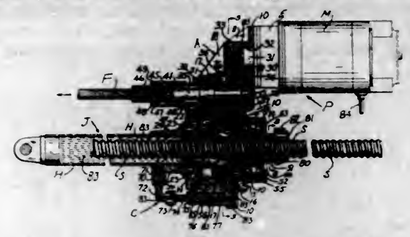
2,403,091
COMPASS CONTROL SYSTEM
William P. Lear, Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application August 12, 1942, Serial No. 454,559
12 Claims. (Cl. 33—223)



12. A compass system comprising a gyroscope; a first pick-off unit having a rotor coupled to said gyroscope and oriented thereby in correspondence with the directional position thereof; a magnetic compass; a second pick-off unit having a rotor coupled to said magnetic compass and oriented thereby in correspondence with the directional position thereof; a remote indicator having a rotatable index; a third pick-off unit having a rotor coupled to said rotatable index and oriented thereby in correspondence with the directional position thereof; circuit means electrically interconnecting said pick-off units; means responsive to signals received by said second pick-off unit from said first pick-off unit when the gyroscope and the magnetic compass are out of their predetermined directional alignment for inducing a corrective precessional action on said gyroscope to restore said alignment; a motor geared to said rotatable index; and means responsive to signals received by said third pick-off unit from said first pick-off unit when the gyroscope and the rotatable index are out of their predetermined directional alignment for energizing said motor to restore said alignment of said gyroscope and said rotatable index.

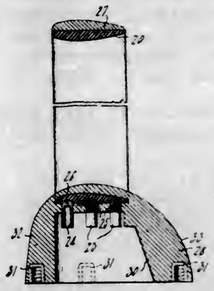
2,403,092
LINEAR ACTUATOR
William P. Lear, Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application February 19, 1943, Serial No. 476,436
14 Claims. (Cl. 74—424.8)

1. Actuating mechanism comprising, in combination, a gear housing; a threaded nut rotatably mounted in said housing; a tubular housing secured to said gear housing coaxially with said nut; a shaft threadedly engaging said nut and extendable into said tubular housing; power drive means; gearing in said gear housing operatively connecting said drive means to said nut, whereby said drive means is operative to rotate said nut to advance and retract said shaft relative to said tubular housing; said shaft upon movement relative to said tubular housing forcing lubricant



from one housing to the other to lubricate said shaft, nut and gearing; and means operative upon movement of said shaft out of said tubular housing to provide a supplemental passage for lubricant into said tubular housing.

2,403,093
LOOP ANTENNA CONSTRUCTION
William P. Lear, Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application May 24, 1943, Serial No. 488,150
5 Claims. (Cl. 250—33)

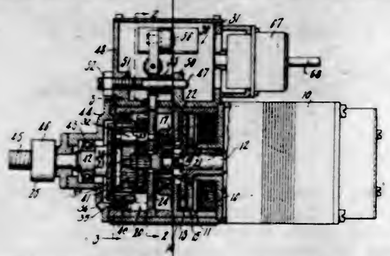


1. A loop antenna comprising a combined annular loop winding support and inner winding enclosure having a partially streamline cross-section; a loop winding wrapped around the outer surface of said support; and plastic composition material molded to said combined inner enclosure and support to form an outer winding enclosure having a complementary partially streamline cross-section and a streamline base integral with said combined inner winding enclosure and support.

2,403,094
TORQUE PRESELECTING MECHANISM
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application August 17, 1943, Serial No. 499,010
7 Claims. (Cl. 192—.02)

1. Torque limiting apparatus comprising an electric motor; a driving pinion operatively associated with said electric motor; a driven member; reduction gearing connected to said driven member and including an internal ring gear connected to said driven member, a normally stationary gear carrying member oscillatable through a small arc and a plurality of pinions rotatably mounted on said gear carrying member and meshed with said driving pinion and said ring gear; adjustable resilient means biasing said

gear carrying member against movement; said gear carrying member moving when the torque on said driven member reaches a predetermined amount; an electromagnetic clutch having a driving element connected to said electric motor and a driven element connected to said driving pinion, said clutch being connected in



circuit relation with said motor and energized simultaneously therewith; a housing enclosing said gearing; switch means mounted in said housing and connected in the circuit of said motor and said clutch; and a device operatively associated with said gear carrying member and effective upon movement thereof to open said switch means to deenergize said motor and said clutch.

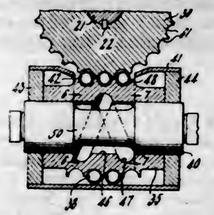
2,403,095
TRAVERSING HOIST
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application October 19, 1943, Serial No. 506,797
16 Claims. (Cl. 212—87)



1. A traversing hoist comprising, in combination, a hoisting drum; a traversing drum; a traversing device; a pulley on said traversing device; a hoisting hook; a hoisting cable secured to said hoisting drum and said traversing device, said hoisting cable passing over said pulley and through said hoisting hook; a traversing cable passing around said traversing drum and secured at both ends to said traversing device; a power drive means in operative association with said hoisting drum; a torque limiting device interposed between said power drive means and said hoisting drum; means effective upon energization of said power drive means to connect the same to an element of said device; and selectively operable means effective to mechanically interconnect said drums for operation as a unit to traverse said device.

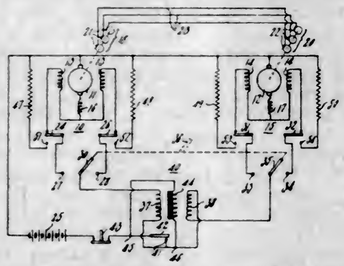
2,403,096
ANTIFRICTION DRIVE
Fred M. Slavic, Los Angeles, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application December 20, 1943, Serial No. 515,065
7 Claims. (Cl. 74—458)

1. An anti-friction drive comprising, in combination, a driving shaft; a worm secured to said shaft to rotate therewith; a worm wheel operatively associated with said worm; anti-friction elements disposed between and engaging the threads of said worm and worm wheel; a helical groove formed on the interior surface of said worm and extending oppositely to the thread of said worm; and apertures in said worm connect-



ing opposite ends of said groove to opposite ends of the worm thread; said shaft having a portion of reduced diameter adjacent said groove and said groove and said reduced diameter shaft portion forming a return passage for said anti-friction elements between opposite ends of the worm thread.

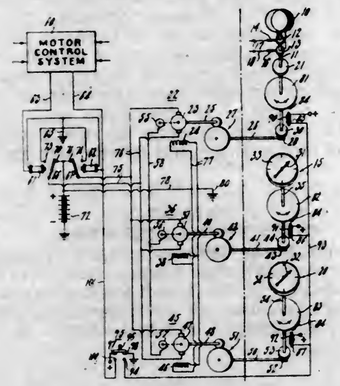
2,403,097
SYNCHRONIZED DIRECT CURRENT MOTOR SYSTEM
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application February 3, 1944, Serial No. 520,894
15 Claims. (Cl. 172—293)



15. A control circuit for a plurality of motors comprising, in combination, a pair of reversible electric motors each having a terminal connected to one terminal of a source of power; synchronizing circuit connections between said motors; interlocking relay means associated with each motor for controlling its direction of rotation; a remote positioning and selecting unit in circuit with said interlocking relay means, said unit comprising a pair of switches each operative to energize said interlocking relay means for effecting rotation of said motors in opposite directions, a cam operatively associated with said switches, position selecting means operative to displace said cam to selectively operate said switches, and a reversible motor operative when energized to restore said cam to a neutral position, said switches controlling the energization and direction of rotation of the motor of said unit; synchronizing circuit connections between the motor of said unit and said first-mentioned motors; a differential relay having a pair of opposing coils each connected in series with one of said interlocking relay means; said coils being connected to the opposite terminal of the source of power through a back contact of said relay; said differential relay being effective, upon a

current unbalance between said first-mentioned motors, to open said back contact and disconnect said first-mentioned motors from the source of power; a holding coil incorporated in said differential relay having one terminal connected to the opposite terminal of the source of power and its other terminal connected in series with each of the opposing coils of said relay; said back contact normally shunting said holding coil; said holding coil being effective upon opening of said back contact to retain the same open; and switch means effective to deenergize said holding coil to close said back contact.

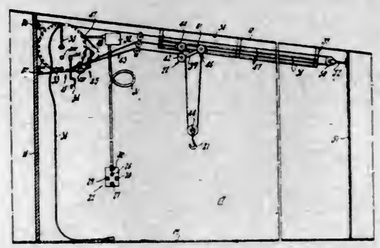
2,403,098
AUTOMATIC MOTOR SYNCHRONIZATION CONTROL
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application February 3, 1944, Serial No. 520,895
15 Claims. (Cl. 172—239)



1. A reset synchronizing system comprising, in combination a plurality of movable elements; a plurality of direct current motors each operatively associated with one of such movable elements; synchronizing connections between said motors; means effective to connect said motors to a source of direct current; and mechanism effective to arrest motion of each of said elements, during energization of said motors, at a predetermined point in its travel until said elements are in alignment.

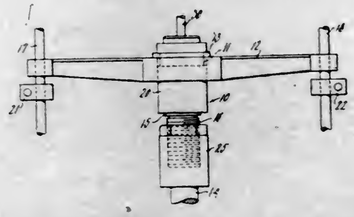
2,403,099
CARGO HOIST
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application May 15, 1944, Serial No. 535,659
14 Claims. (Cl. 212—93)

1. A traversing hoist comprising, in combination, a hoisting drum; a traversing drum; a traversing device; a hoisting device mounted on said traversing device; cables connecting said hoisting and traversing drums to said hoisting and traversing devices, respectively; power driving means; manual driving means; planetary gearing interconnecting said drums; means selectively operable to connect either of said driving means to said planetary gearing; mechanism operatively associated with said planetary gearing and effective to condition the same either to interconnect said drums or to hold said traversing drum stationary; manual means for selectively operating said mechanism to connect said drums for operation as a unit; other means for selectively operat-



ing said mechanism; a torque limiting mechanism interposed between said power driving means and said selectively operable means; and a torque limiting mechanism incorporated in said manual driving means.

2,403,100
CHUCK
Philip Geren, Grand Rapids, Mich., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application August 18, 1944, Serial No. 550,018
3 Claims. (Cl. 279—74)

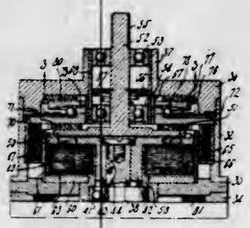


1. A chuck adapted to grip a tool having a shank, a head and a chamfered neck joining such shank and head, said chuck comprising, in combination, a pair of relatively movable members; gripping elements movably mounted in one of said members; said members in one relative position retaining said elements in gripping engagement with the neck of the tool and in another relative position releasing said elements from gripping engagement with the neck of the tool; latching means operable upon movement of said members to such other relative position to retain said members in such other relative position; and means operable by insertion of the tool in said chuck for releasing said latching means.

2,403,101
POWER TRANSMISSION CONTROL UNIT
William P. Lear, North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application December 18, 1944, Serial No. 568,650
18 Claims. (Cl. 192—.02)

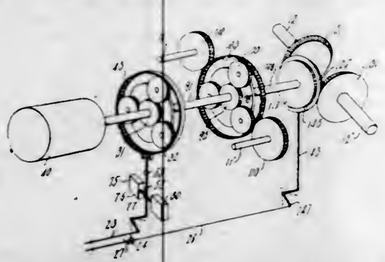
1. A power transmission unit comprising, in combination, a first rotatable member having a clutching surface; a second rotatable member having a clutching surface frictionally coactable with the first member surface; a winding to pro-

duce magnetic flux for establishing frictional engagement between said clutching surfaces; a movable braking member adjacent said second rotatable member; selectively operable means normally effective to lock said braking member



against rotation; and means effective upon deenergization of said winding to mechanically bias said second rotatable member into engagement with said braking member to arrest rotation of said second rotatable member while said braking member is locked.

2,403,102
MULTIPLE ACCESSORY OPERATING MECHANISM
Victor J. Plotkin, Los Angeles, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application February 14, 1945, Serial No. 577,901
20 Claims. (Cl. 244—102)

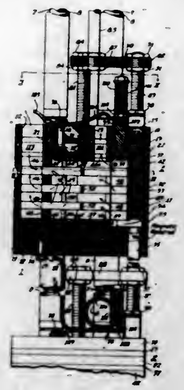


1. A multiple accessory operating mechanism comprising, in combination, a power drive means; planetary gearing including a driving element coupled to said power drive means, a first driven element coupled to a first accessory and a second driven element coupled to a second accessory; brake means normally locking said second driven element against movement whereby, when said power drive means is energized, said driving element, through said first driven element, will operate such first accessory from a first limiting position to a second limiting position; and means operable by such first accessory, when it attains its second limiting position, to release said brake means from said second driven element, whereby said driving element, through said second driven element, will operate such second accessory from a first limiting position to a second limiting position.

16. An aircraft landing gear and landing gear bay door operating mechanism comprising, in combination, an electric motor; first actuator means operable to move the doors between open and closed positions; second actuator means operable to move the landing gear between extended and retracted positions; planetary gearing including a driving element coupled to said motor, a first driven element coupled to said first actuator means and a second driven element coupled to said second actuator means; brake means normally locking said second driven element against movement whereby when said motor is energized, said driving element, through said first driven element, will operate said first actuator means to open such doors; and release means coupling said brake means to the doors to release said brake means when the doors are fully open whereby said driving element, through said second driven element, will operate said second actuator means to retract said landing gear.

20. A torque limiting mechanism for a motor drive system comprising, in combination, a gear unit including a driving element adapted to be coupled to the motor, a driven element, and a normally stationary movable element effective to transmit torque from said driving element to said driven element; a sleeve pivotally mounted in said unit; motor controlling switch means operable by pivotal movement of said sleeve; adjustable means restraining pivotal movement of said sleeve; a plunger slidably mounted in said sleeve; means normally urging said plunger to engage said movable element to prevent oscillation thereof; said movable element, when the torque on said mechanism exceeds a predetermined amount, oscillating to pivot said sleeve and operate said switch means to alter the energization of said motor; and manually operable means selectively operable to disengage said plunger from said movable element to operatively uncouple the motor from said driven element.

2,403,103
CIRCUIT INTERRUPTER
Winthrop M. Leeds, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 20, 1943, Serial No. 476,510
26 Claims. (Cl. 200—150)

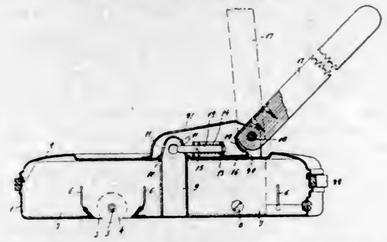


1. In a circuit interrupter, an elongated arcing passage having a relatively wide portion and a relatively restricted portion, means for establishing an arc in the wide portion, coil means for creating a magnetic field to bias the arc into the restricted portion, one or more inlet passages positioned laterally along the walls of the restricted portion leading into the restricted portion of the elongated arcing passage, and means operative to force fluid through the inlet passages into the restricted portion to strike the arc after the arc has entered the restricted portion to assist in its extinction.

2,403,104
LITHIUM GREASES
Elvin B. Lien, Berkeley, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 17, 1942, Serial No. 462,413
13 Claims. (Cl. 252—42)

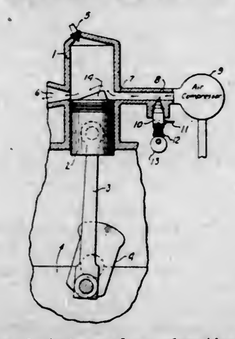
1. A lubricating grease comprising mineral oil, a minor proportion of lithium soap, and a minor proportion of unsaponifiable oil obtained from the recovery of synthetic acids produced by the oxidation of lubricating oil fractions.

2,403,105
BRUSHING APPARATUS
Erik Torvald Linderoth, Enkoping, Sweden
Application January 30, 1945, Serial No. 575,225
In Sweden January 21, 1944
6 Claims. (Cl. 15—1)



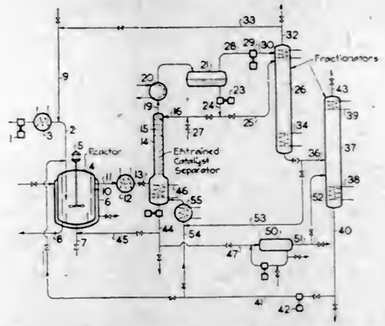
1. In a brushing apparatus provided with a dust collecting receptacle, a removable cover for said receptacle and a handle for moving the brushing apparatus along the object to be cleaned, the handle being pivoted in a vertical plane to the cover, means to unlock and lock said cover, said means comprising a stationary member connected to the receptacle, said stationary member engaging in locking position with a displaceable locking member on the cover, said displaceable locking member being provided with means adapted to engage with means on the handle when the handle is turned from its position of operation to release said stationary member and said displaceable locking member from one another and to permit said members to engage when the handle is turned in the opposite direction.

2,403,106
TWO-CYCLE INTERNAL-COMBUSTION ENGINE
Marion Mallory, Detroit, Mich.
Application October 30, 1943, Serial No. 508,299
6 Claims. (Cl. 123—65)



4. A two-cycle internal combustion engine comprising a cylinder having intake and exhaust ports, a piston reciprocating in said cylinder and arranged to open and close the intake and exhaust ports substantially simultaneously, a fuel pipe connecting the intake port with a source of air under compression, an injection nozzle for injecting fuel into said fuel pipe preparatory to passing through said intake port, and means controlling said injection nozzle whereby the fuel is injected into the compressed air stream while the exhaust port is open and after compressed air free of fuel has been forced into the cylinder and the flame extinguished.

2,403,107
CATALYTIC PROCESSES
Sumner H. McAllister, Lafayette, and John Anderson and William E. Ross, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 3, 1944, Serial No. 516,832
17 Claims. (Cl. 260—683.5)

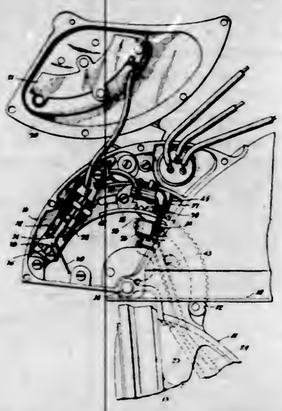


1. In a catalytic hydrocarbon conversion process wherein saturated hydrocarbons are contacted at conversion conditions with a catalyst comprising a solution of aluminum chloride in antimony trichloride in a reaction zone and effluence from said reaction zone is passed to a fractionating zone, the steps which comprise contacting said reactor effluence comprising hydrocarbon reaction products and entrained catalyst components in the vapor state with a countercurrent stream of a controlled amount of cool hydrocarbons in a catalyst separating zone to effect the condensation of substantially all of said catalyst components in the absence of any substantial condensation of said hydrocarbon reaction products, separately removing vapors comprising hydrocarbon reaction products free of any substantial trace of catalyst components and liquid comprising aluminum chloride dissolved in antimony trichloride from said catalyst separating zone, cooling said vapors to condense at least a part thereof, passing a sufficient portion of the resulting condensate into said catalyst separating zone to provide said stream of cool hydrocarbons used therein, and passing the remainder of said condensate to said fractionating zone.

2,403,108
LAMP
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application April 21, 1944, Serial No. 532,113
6 Claims. (Cl. 171—97)

1. Apparatus for controlling the periods of operation of a motor having forward and reverse excitation field coils and for correlating therewith the periods of ilumination of a lamp, includ-

ing a normally closed switch in a motor field circuit for driving the motor in one direction, a concurrently open switch in a motor field circuit for driving the motor in the opposite direction, a switch in the lamp circuit held open by the said concurrently open switch, a double throw manually operable switch arranged for series connection with either of said motor controlling switches,



whereby when said manually operable switch is closed in the circuit of the said normally closed switch the motor will operate; and means driven by the motor to concurrently close the lamp circuit switch and the initially open motor circuit switch at a predetermined time after the commencement of operation of the motor, and subsequently to open said first-named motor circuit switch.

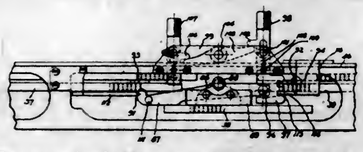
2,403,109
METHOD OF BRAZING
Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1943, Serial No. 480,561
2 Claims. (Cl. 148—24)

1. In that method of brazing comprising the immersion of the articles to be joined into a bath of molten brazing flux composed largely of the fluorides and chlorides of the alkali metal and alkaline earth metals and in contact with a receptacle or other part composed of nickel or high percentage nickel alloy, the improvement consisting in providing the molten flux with a content of nickel particles in amount of about 0.5 to 10 per cent by weight of the total nickel particle-flux mixture, and immersing said articles in said nickel particle-flux mixture.

2,403,110
JOINING ALUMINUM
Mike A. Miller, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 13, 1943, Serial No. 506,079
4 Claims. (Cl. 148—23)

4. A brazing medium consisting of particles of alkali metal chloride flux and intermixed particles of aluminum base alloy at least partially coated with a film of said flux and a pasting agent consisting of non-aqueous organic vehicle in amount sufficient to form said medium into a paste, said brazing medium being characterized by a capacity to flow more readily at brazing temperature than a similar medium of like composition in which the alloy particles are uncoated.

2,403,111
CALCULATING MACHINE
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application August 28, 1942, Serial No. 456,491
7 Claims. (Cl. 235—144)



1. In a calculating machine, a register comprising a series of dials, sectionalized resetting means for said dials including respective end sections for two end groups of said dials, operating means for said resetting means, settable means for selectively causing operation of one of said end sections by said operating means, and means including a manually operable control member for causing operation of said one end section by said operating means irrespective of the setting of said settable means.

2,403,112
METHOD OF PREPARING MOLDED COMPOSITIONS FROM UNSATURATED ESTERS
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 30, 1941, Serial No. 404,741
6 Claims. (Cl. 260—78)

2. A method of preparing a molded composition of a dialkenyl ester of a dicarboxylic acid wherein the alkenyl radicals have an olefinic linkage attached to the second carbon atom from the oxygen atom adjacent said alkenyl radical, which method comprises partially polymerizing the compound in the presence of an organic peroxy compound to form a soft gel containing 40 to 80 percent of an acetone insoluble polymer, breaking the gel into discrete particles and molding under pressure and temperature controlled to knit the particles into a compact mass thereby polymerizing the mass into a hard infusible state.

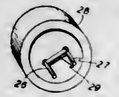
2,403,113
UNSATURATED CARBONATE ESTER AND POLYMER THEREOF
Irving E. Muskat, Akron, and Franklin Strain, Norton Center, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 7, 1942, Serial No. 433,832
8 Claims. (Cl. 260—78)

1. 1,2-propylene glycol bis (allyl carbonate).

2,403,114
LAMP BASE AND SOCKET
Arthur B. Oday, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application May 3, 1944, Serial No. 534,006
3 Claims. (Cl. 176—29)

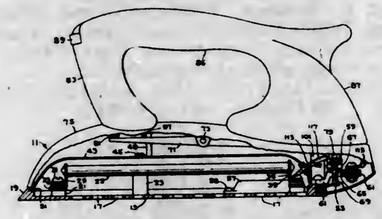
1. In combination, an elongated electric lamp having a base at each end and a pair of spaced

sockets supporting said lamp; each of said lamp bases comprising two spaced, outwardly projecting, parallel, socket engaging, contact pins and another, shorter projection on said base between said pins which is of small height compared to the length of said pins; each of said sockets comprising an electrically insulating housing provided with a recess and a stud upstanding from the bottom of said recess to define with the walls of said recess an arcuate slot accommodating said



base pins; spring contact members disposed in said slot, engaging said base pins and extending from the free end of said stud toward the back wall of said recess, said stud terminating short of the outer face of said socket a distance substantially equal to the height of said projection on said lamp base and serving as a stop engageable with the shorter projection on said lamp base to limit longitudinal movement of said lamp in said sockets.

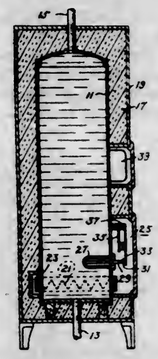
2,403,115
ELECTRIC SADIRON
Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application December 11, 1944, Serial No. 567,578
6 Claims. (Cl. 219—25)



1. An electric sad iron comprising a relatively thin sole plate having a plurality of openings therein, the area of said openings being on the order of one-half that of the sole plate, a plurality of electric heating elements, of rod shape, thereabove and a reflector over said heating elements.

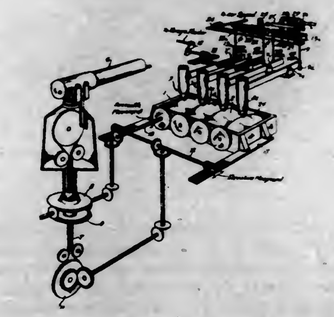
2,403,116
WATER HEATER CONTROL SYSTEM
Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application July 17, 1944, Serial No. 545,353
6 Claims. (Cl. 219—39)

1. A system for controlling the energization of an electric heater operatively associated with a domestic hot water tank subject to withdrawal of hot water during a twenty-four hour day, comprising an electric heater, a lower thermally-actuable heater control switch mounted in heat-receiving relation on the tank adjacent to the lower end thereof and adapted to be in closed position when subject to cold water in the tank and to be in open position when subject to hot water in the tank, a time-controlled switch adapted to be in closed position during off-peak periods only, a three-switch thermal retarder heater control unit mounted in heat-receiving relation on the tank intermediate the ends thereof, comprising a first thermal switch adapted to be in closed position when subject to cold water in the tank and in open position when subject to hot water in the tank, a second thermal switch adapted to be in open position when subject to cold and to hot water in the tank and to be in closed position when subject to a predetermined appreciably higher temperature, a heating coil for raising the temperature of said second switch to said predetermined temperature, the energization of said heating coil being controlled jointly



by said lower and said time-controlled switches, a third thermal switch adapted to be in open position when subject to cold and to hot water in the tank and to be in closed position when heated to a predetermined appreciably higher temperature, and a heating coil for said third switch adapted to be transversed by the heater current and other electric connections between said electric heater and said switches to cause immediate energization of said heater upon closure of said time-controlled switch in case said first thermal switch of the thermal retarder unit is subject to cold water in the tank.

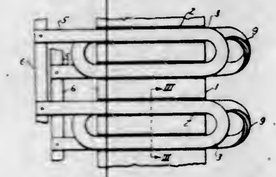
2,403,117
GUNFIRE CONTROL SYSTEM
John F. Peters, Edgewood, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1941, Serial No. 373,699
27 Claims. (Cl. 89—41)



1. In a control for a system having a gun, a sight, and follow up mechanism for effecting movement of the gun in accordance with movement of the sight, error compensating means interposed in said follow up mechanism so as to

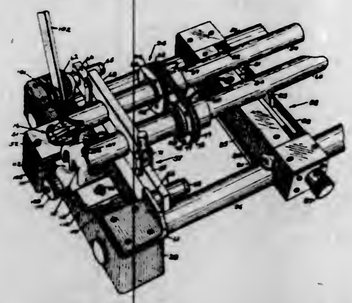
introduce a deviation between gun and sight so that substantial instead of exact follow up occurs, said error compensating means including a pair of three dimensional cams each having a tracer associated therewith, means responsive to movements of the gun in azimuth for rotating the cams, means responsive to movements of the gun in elevation for longitudinally moving the cams whereby said tracers are moved, and means for adding the movements of said tracers whereby the errors to be compensated for are indicated.

2,403,118
ARMATURE WINDING
Ernest I. Pollard, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 20, 1943, Serial No. 476,595
5 Claims. (Cl. 171—252)



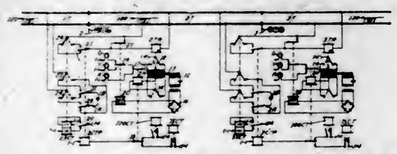
1. In an alternating-current generator of the inductor type having a slotted armature core, a plurality of armature coils disposed in the slots of the armature core, each of said coils comprising a plurality of turns of a continuous, stranded conductor with the sides of the coil lying in adjacent slots of the core, said conductor being divided into strands depthwise of the coil, a portion of the conductor at the electrical midpoint of the coil being extended out of the coil, and the strands being transposed in said extended portion.

2,403,119
MACHINE TOOL
Paul R. Powell, Baltimore, Md.
Application December 14, 1943, Serial No. 514,255
13 Claims. (Cl. 164—47)



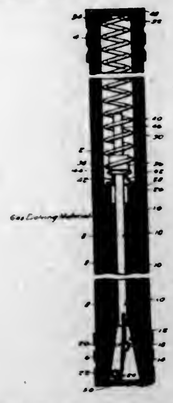
1. Apparatus for machining the end surfaces of a length of tubing to predetermined contours, comprising the combination of a tool operable around the tubing to machine the tubing ends, and means to control the machining operation in accordance with the desired contours, the control means comprising a tubular templet and a templet follower relatively movable in engagement with each other, and mechanism to direct the machining operation responsive to the relative movement between the templet and the follower.

2,403,120
CODED TRACK CIRCUIT SIGNALING SYSTEM
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 30, 1944, Serial No. 542,909
16 Claims. (Cl. 246—38)



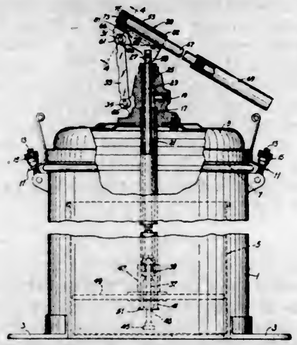
1. In a coded track circuit signaling system for railroads, a forward track section separated from a rear track section by insulated joints, a signal governing the passage of traffic from the rear track section into the forward track section, code transmitting means associated with said signal for applying distinctive code pulses to said rear track section, a code following track relay normally connected across the rails of said forward track section, isolating means effective during the application of each code pulse to the rear track section by said code transmitting means for disconnecting said track relay from said forward track section, and means acting in response to the intermittent operation of said track relay for governing the indications of said signal and for rendering said isolating means ineffective.

2,403,121
CIRCUIT INTERRUPTER
Herbert L. Rawlins, Pittsburgh, and John J. Mikos, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1942, Serial No. 428,710
60 Claims. (Cl. 200—117)



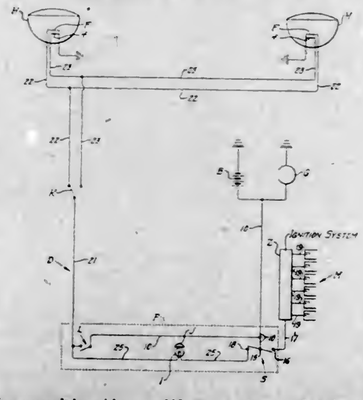
1. In a circuit interrupter having a pair of terminals, arcing contacts at least one of which is movable away from the other to draw an arc, said contacts connected with said terminals, respectively, biasing means for moving said movable contact away from the other of said contacts, electroresponsive means for maintaining said contacts against separation but operative to release said contacts in response to predetermined electrical conditions, and the connection of said movable contact and its corresponding terminal including a solid connection which is capable of being ruptured by said biasing means when said contacts are released.

2,403,122
PUMP
August D. Reisert, St. Louis, and Lutwin C. Rotter, Maplewood, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application May 21, 1943, Serial No. 487,894
7 Claims. (Cl. 222—326)



3. A portable unit comprising a portable housing adapted to receive a loaded and open container, a removable cover attachable to said housing and adapted to support it, a cylinder attached to said cover and forming an extension insertable into said open container, a plunger reciprocating in said cylinder and extending upwardly and outwardly therefrom, a rocking bushing pivoted to said plunger, a link pivoted to said bushing and to said cylinder, a telescoping handle passing through said bushing, a quick-detachable means at one end of said handle for attachment to the bushing and being releasable for positioning the handle so that the bushing is intermediate and whereby the handle may be used as a means to support said cylinder and attached parts, including the housing and the container.

2,403,123
HEADLIGHT INDICATOR
Val J. Roper, South Euclid, Ohio, assignor to General Electric Company, a corporation of New York
Application October 6, 1943, Serial No. 505,211
2 Claims. (Cl. 177—311)

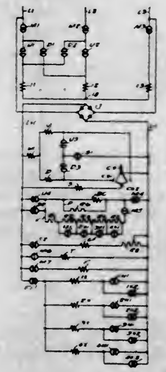


1. In combination with a motor vehicle ignition system comprising a source of electric energy and an ignition switch for energizing and deenergizing said ignition system, a headlighting system comprising an incandescent electric headlamp and an electric indicator lamp connected in series between said ignition switch and said source of energy so that current always flows therethrough when the ignition switch is closed, the resistance of said indicator lamp being sufficiently high to prevent sufficient current flow through said headlamp to illuminate it, and a selectively operable lighting switch connected across said indicator lamp to shunt it when said lighting switch is closed.

2,403,124
ALKYLATION OF BENZENE
Edward N. Rosenquist, Oakwood, and Roy W. Sudhoff, Van Buren Township, Montgomery County, Ohio, assignors to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application March 6, 1942, Serial No. 433,584
8 Claims. (Cl. 260—671)

5. The process which comprises reacting in an alkylation zone in the presence of a Friedel-Crafts catalyst, benzene, an olefin and polyalkylbenzenes and supplying to said alkylation zone a liquid feed comprising benzene and hydrogen chloride dissolved in said benzene.

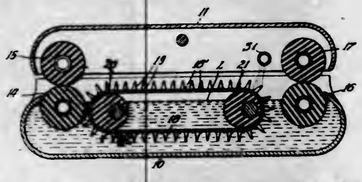
2,403,125
CONTROL SYSTEM
Danilo Santini, Tenafly, and Edward H. Heath, Jersey City, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 4, 1944, Serial No. 557,174
16 Claims. (Cl. 187—29)



16. In an elevator system for operating a car past a floor, a motor for operating the car, a brake device for decelerating the car to a stop, said device having a spring-applied brake and a plunger with a brake coil capable of energizing its magnetic circuit to approximately its saturation point for moving the brake to its off position, circuits for the motor and the brake coil, a switch for energizing the circuits for the motor and the brake coil to start the car, a stopping means for deenergizing the motor and brake coil circuits when the car arrives at a predetermined distance from the floor in making a stop, a low discharge resistance circuit for the brake coil, a high discharge resistance circuit permanently connected to the brake coil for delaying the deenergization of that coil when a stop is being made until the low discharge resistance circuit is connected to the brake coil, a tachometer connected for operation by the hoisting motor, said tachometer having a series field winding, a self-excited shunt field

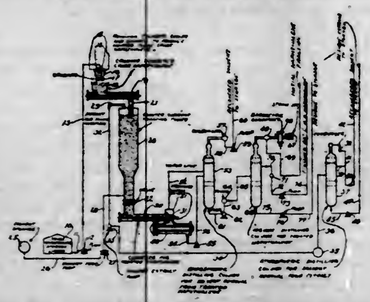
winding and a separately excited shunt field winding to cause it to give a greater than one-to-one measure of the load on the hoisting motor, a plurality of measuring relays connected for accumulative operation in accordance with the output of the tachometer, a plurality of resistors associated with the low discharge circuit, one for each measuring relay, a plurality of resistor relays provided with self-holding means, one of said relays for each measuring relay and responsive to operation of that measuring relay for inserting the resistor corresponding to that measuring relay in the low discharge circuit, whereby the value of the resistance in the low discharge circuit will delay the release of the plunger after the brake circuit is deenergized for a length of time commensurate with the load on the car and its direction of operation, means responsive to operation of the stopping means for connecting the low discharge circuit as conditioned by the resistors to the brake coil, a load timing device responsive to starting and stopping of the car for limiting the operation of the tachometer to a predetermined period when the car starts operating, and a brake timing relay for returning the resistor relays to their normal condition at the end of a predetermined time after the brake circuit is deenergized.

2,403,126
RINSE WRINGER
Albert Schellenberg, Joliet, Ill.
Application May 2, 1941, Serial No. 391,487
2 Claims. (Cl. 68—22)



2. In a rinse wringer, a rinsing chamber, conveying means in the rinsing chamber including a belt for conveying garments through the rinsing chamber, and eccentric rollers supporting said belt to agitate the garments as they move through the rinsing chamber.

2,403,127
PROCESS FOR THE MANUFACTURE OF POLYNUCLEAR AROMATIC HYDROCARBONS
John E. Schulze, Chicago, Ill.
Application January 7, 1942, Serial No. 425,842
6 Claims. (Cl. 260—674)



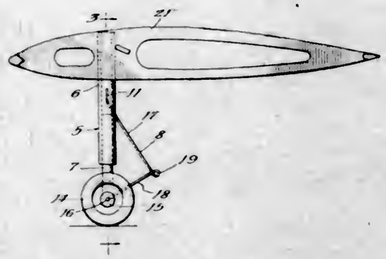
1. A method of purifying naphthalene in the solid state including comminuting said naphthalene to make the same permeable to a liquid extracting medium containing from 80 to 95% of petroleum naphtha having a boiling range falling between 100° and 275° F. together with from 5 to 20% of an inert solvent for naphthalene capable of dissolving more than 2.5% naphthalene and having a boiling range falling between 100° and 275° F. and thereafter extracting impurities from said comminuted naphthalene with a liquid medium containing from 80 to 95% of petroleum naphtha having a boiling range falling between 100° and 275° F. together with from 5 to 20% of an inert solvent for naphthalene capable of dissolving more than 2.5% naphthalene and having a boiling range between 100° and 275° F., said extraction being effected by counter-currentwise flowing the liquid extraction medium through a moving column of comminuted naphthalene.

2,403,128
HEAT RESISTANT ALLOYS
Howard Scott and Robert B. Gordon, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 24, 1942, Serial No. 448,234
11 Claims. (Cl. 75—171)

1. A mechanical element which is to be subjected to a temperature of at least 650° C. and considerable stress in normal use consisting of a heat resistant alloy comprising 20% to 60% nickel, 16% to 28% chromium, 4% to 20% molybdenum, less than 0.20% carbon, from traces up to 3% manganese, and the balance iron except the usual contaminants in common amounts, the alloy being precipitation hardened and having the relation among the alloying components that

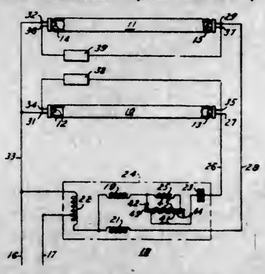
$$\tfrac{1}{2}\,[\%\ \mathrm{Mo}+0.8\ (\%\ \mathrm{Cr})+0.75\ (\%\ \mathrm{Mn})-0.25\ (\%\ \mathrm{Ni})-1.5]=8\%\ \text{to}\ 11\%$$

2,403,129
LANDING GEAR FOR TOY AIRPLANES
Harvey E. Shaeffer, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application January 6, 1945, Serial No. 571,557
7 Claims. (Cl. 46—76)



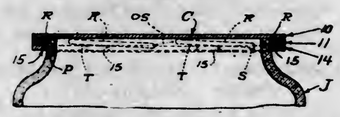
1. In a model airplane, a wing structure having transverse ribs, a pair of tubular sleeves having their upper ends secured to said transverse ribs, wheel supporting members telescopically mounted in said sleeves, wheels journaled on said supporting members, and resilient wire means for yieldably resisting axial and rotational movement of said wheel supporting members relative to their respective sleeves, one end of each resilient wire means serving as a journal for a wheel.

2,403,130
ELECTRIC DISCHARGE APPARATUS
Roy M. Smith, Bethlehem, Pa., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut
Application May 29, 1943, Serial No. 488,995
12 Claims. (Cl. 315—97)



1. An electric circuit for starting and operating a plurality of electric discharge lamps having electrodes from a single current source comprising, circuit means for connecting said lamps in parallel to the source, a single reactor connected in series with one lamp, a plurality of reactors connected in series with another of the lamps, and current responsive switch means operable to shunt one of said series connected reactors from its associated circuit in response to the flow of initial starting current to the lamp.

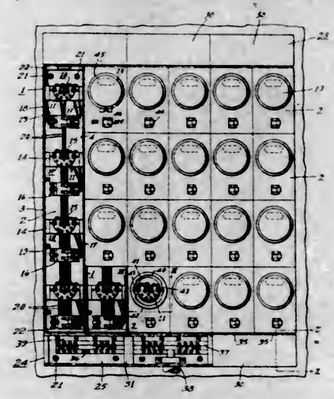
2,403,131
LAMINATED CONTAINER CLOSURE
William A. Smith, Bronxville, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application August 10, 1942, Serial No. 454,336
5 Claims. (Cl. 215—44)



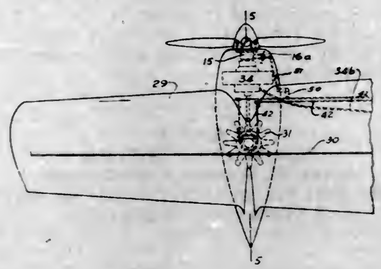
3. In a closure for a container opening, in combination, a closure disk adapted to extend over the container opening to provide a closure therefor, a plurality of flat rings having upper and lower contacting surfaces adhesively attached together and to said closure disk to form a laminated closure structure, and a plurality of inwardly projecting attaching tabs spaced along and integral with the inner edge portion of one of said flat rings that is spaced downwardly from said closure disk by one or more of said flat rings whereby said tabs are spaced downwardly from said closure disk so as to form lugs positioned for securing engagement with formations on the container for holding the closure in closing position.

2,403,132
METER MOUNTING
Harry P. Sparkes, West Orange, N. J., and Ernest G. Johansson, Watertown, Mass., assignors of one-half to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania, and one-half to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application January 16, 1941, Serial No. 374,668
17 Claims. (Cl. 175—222)

1. In a detachable instrument panel, three trough receptacles each comprising an open-front U-shaped channel having parallel side walls, said trough receptacles being disposed in side-by-side abutting relationship, means for attaching said trough receptacles in said relationship, a plurality of contact units in each of said trough receptacles, each of said contact units being designed to receive detachably a detachable electrical instrument, and cover means for said trough receptacles, said cover means having openings permitting introduction of electrical instruments to said contact units.

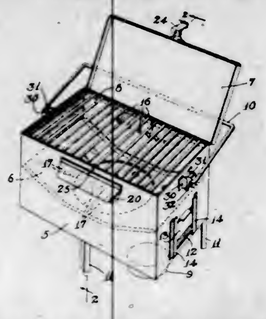


2,403,133
AIRCRAFT
Edward A. Stalker, Bay City, Mich.
Application October 13, 1943, Serial No. 506,017
9 Claims. (Cl. 244—42)



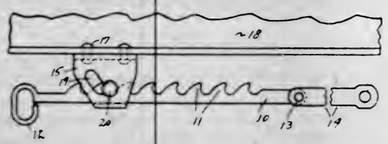
1. In an aircraft of the character described, the combination of a wing having a slot in the surface thereof leading into the wing interior, a source of power within the aircraft, means for controlling the output of said power source, an adjustable pitch propeller driven from said power source, a blower, means for operating said blower from said power source throughout the range of pitch-adjustment of said propeller for inducing a flow through said slot to develop boundary layer control on said wing, said blower having adjustable pitch blades, and a single control means operable independently of said power controlling means for effecting concurrent reduction of pitch of the blades of said propeller and increase of pitch of the blades of said blower to make the power of said power source primarily the said slots permit the said roller to drop into available for operation of said blower in developing high lift on said wing.

2,403,134
CHARCOAL BURNER
William B. Stephenson, Fond du Lac, Wis.
Application June 13, 1942, Serial No. 446,897
1 Claim. (Cl. 126—29)



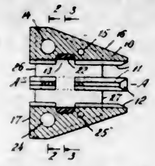
A portable charcoal burner comprising, in combination, an elongated generally rectangular sheet metal casing, a sheet metal grate member extending from one end of the casing to the other and from side to side and being supported on said casing along opposite side edges, said member dividing the interior of said casing into a combustion space over said grate and an ashpit below said grate, a combustion bowl in said grate member formed by a depression of generally spherical contour located substantially at the center of the member, said depression being substantially coextensive with the width of the casing, combustion air apertures in the depressed portion of the grate member and in the end portions of the member contiguous thereto, the parts of said end portions remote from said depression being free of apertures and providing storage space for reserve fuel, said end portions sloping from the ends of said casing toward the combustion bowl whereby to provide a preheating zone for preparing the reserve fuel for combustion, the outer walls of said casing above and below said grate being formed with draft openings.

2,403,135
SLACK CONTROLLER
Ward W. Stewart, Girard, Ohio
Application August 3, 1944, Serial No. 547,889
2 Claims. (Cl. 188—197)



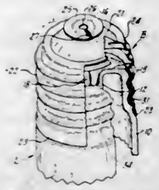
1. In a slack controller for railway brake mechanism, a bracket adapted for connection with a fixed support, a pair of semi-L-shaped slots formed in said bracket and a toothed bar connected with the said brake mechanism and positioned through the said bracket, a roller pin positioned through the said slots and engageable with the said toothed bar, the said slots in the said bracket permitting the said roller to rise and disengage the said bar when the said bar is moved in one direction and when said bar is moved a predetermined distance in the other direction, engagement with the said bar and thereby hold the said bar from further movement in that direction.

2,403,136
COLLET
Arthur Merrick Stoner, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 17, 1944, Serial No. 549,847
4 Claims. (Cl. 279—54)



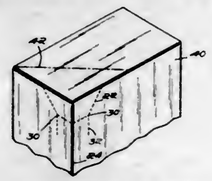
1. A circumferentially continuous machine tool collet to be actuated by a cam surface of a chuck, said collet comprising a retainer in the form of a body of resilient material having a central longitudinal opening and having a plurality of angularly spaced radially disposed slots extending from said opening to the outer periphery of the body, said slots being open at one transverse edge and open at the other transverse edge throughout the major portion of the length of the body and portions of the body across one of the transverse edges of the slots intermediate the longitudinal ends of the body closing short parts of the slots, and alined bosses spaced from said portions of the body, projecting from the sides of the slots, and rigid gripping members in the slots having tapered edges projecting from the body and arranged to be engaged by said cam surface, notches in the opposite edges of the gripping members engaging the portions of the body which are across the slots, said gripping members being provided with orifices for receiving the lugs.

2,403,137
BASING FOR ELECTRIC LAMPS AND THE LIKE
Royal F. Strickland, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application July 1, 1943, Serial No. 492,988
2 Claims. (Cl. 176—32)



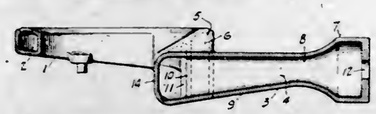
1. The combination with a vitreous lamp bulb or the like having an externally screw threaded neck, with current leads issuing therefrom, and also having across the screw threads a groove with its bottom undulated in correspondence with the undulations of the screw threaded neck surface, but to a less depth, of a metal screw shell contact screwed on said threaded neck, with an adhesive film between said neck and shell securing the latter against unscrewing from the neck when the device is unscrewed from a socket in external screw engagement with said shell, one of said current leads extending along in said neck groove resiliently flexed between the undulations of the groove bottom and the internal undulations of said screw shell, and thus held in electrical contact with the latter; a base end insulator closing the end of said shell; and an end contact mounted on said insulator having another of said current leads mechanically clamped into electrical contact therewith.

2,403,138
POURING CARTON AND BLANK
John J. Sullivan, Arlington, Mass., assignor of one-half to Lawrie L. Witter, Boston, Mass.
Application June 21, 1944, Serial No. 541,325
8 Claims. (Cl. 229—17)



1. A carton perforated adjacent to a corner thereof along a line extending across the junction of two faces radiating from said corner and obliquely across said two faces to two margins thereof radiating from said corner, the intersection of said line with said junction being substantially closer to said corner than to any other corner of the carton, and said two faces also being perforated respectively along two lines spaced from said junction and each intersecting the first named line and extending away therefrom, said perforations across the junction and across said two faces forming a corner closure having one edge portion adjacent to and receivable in the slots formed by the perforations along said two lines spaced from said junction.

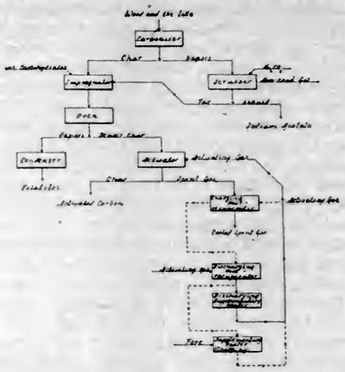
2,403,139
GAS BURNER
Theodore H. Thiele, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 26, 1942, Serial No. 428,248
2 Claims. (Cl. 158—99)



2. A gas burner comprising a circular tubular ring member having jet means provided in its upper surface for the discharge of gas therefrom throughout substantially the entire circumference of the ring, a Venturi supply pipe extending radially to one side of the burner ring in a plane below the horizontal plane of the ring to discharge gas into the ring at the bottom of the latter and in a direction laterally and upwardly from said supply pipe, a portion of the upper surface of said ring being depressed to the level of said supply pipe immediately above the same to direct the gas laterally to opposite sides of the pipe and being imperforate to eliminate flame propagation immediately above the supply pipe.

2,403,140
MAKING OF ACTIVATED CARBON
Alfred M. Thomsen, San Francisco, Calif., assignor to Pacific Acetate and Chemical Company, a corporation of California
Application September 28, 1942, Serial No. 459,884
2 Claims. (Cl. 252—289)

1. The method of increasing the density of a char which comprises; impregnating said char with a liquid medium which on distillation will yield a carbonaceous residue; facilitating said impregnation by inducing a partial vacuum in the pores of said char during said impregnation; submitting said impregnated charcoal to sufficient heat to drive off the volatile portions of the

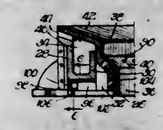


impregnating medium, thus leaving the larger pores of the primary char partially filled with a secondary char.

2,403,141
CHROME BERYLLIUM ALLOY STEEL AND ARTICLES OF MANUFACTURE PRODUCED THEREFROM
Enrique G. Touceda, Loudonville, and Ralph P. De Vries, Menands, N. Y., assignors to Allegheny Ludlum Steel Corporation, a corporation of Pennsylvania
No Drawing. Application July 28, 1942, Serial No. 452,639
8 Claims. (Cl. 75—125)

1. An alloy steel composed of about .05–2.00% of carbon, about .5–14% of chromium, about .5–6% of copper, about .5–4.5% of silicon, and about .05–.30% of beryllium, the balance being substantially all iron except for the usual impurities in common amounts.

2,403,142
BURNER CONSTRUCTION
George F. Turner, Chicago, Ill., assignor of one-fourth to Philip S. Harper, one-fourth to Carolyn L. Harper, both of Chicago, Ill., one-fourth to Harris Trust and Savings Bank, Chicago, Ill., as trustee for a trust known as "The Philip S. Harper Trust," and one-fourth to Harris Trust and Savings Bank, Chicago, Ill., as trustee for a trust known as "The Carolyn L. Harper Trust"
Application March 7, 1942, Serial No. 433,713
8 Claims. (Cl. 158—105)



8. A double burner construction comprising, in combination, a member having inner and outer non-communicating gas chambers, a transversely arranged base having passage means formed in part by laterally disposed walls exteriorly of the outer wall for said outer gas chamber and communicating with said chambers whereby each of said chambers is adapted to be connected to an independently controlled source of gas supply, said member having a series of inner gas ports in communication with said inner gas chamber and a series of outer gas ports in communication with said outer gas chamber, said inner and outer se-

ries of gas ports being disposed so that the flames from one of said series of ports will not directly ignite the gas emerging from said other series of gas ports, a flash tube feeding port removed from both said gas ports, said flash tube feeding port being disposed to one side of one of said laterally disposed walls and in communication with one of said gas chambers, gas outlet means in said burner member communicating with said inner gas chamber and constituting flame propagating means for igniting said inner series of gas ports from said flash tube feeding port, and other gas outlet means in one of said laterally disposed walls and having communication with said passage means for the outer of said gas chambers, said other gas outlet means being disposed in a plane substantially parallel to the axis of the burner member and being in flame propagating relation to the flash tube feeding port and to said outer series of gas ports whereby said outer series of gas ports may be ignited from said flash tube feeding port.

2,403,143

COMPOSITION FOR EFFECTING AGGLOMERATION OF SOLIDS IN AQUEOUS SUSPENSIONS

Richard Tutt, Jr., John R. Hubbard, and Charles R. McKee, Gowanda, N. Y., assignors to Peter Cooper Corporations, Gowanda, N. Y.

No Drawing. Application November 21, 1944, Serial No. 564,559
7 Claims. (Cl. 252—181)

1. An agglomerating composition for use with a mordanted aqueous suspension of solids having a pH of approximately from 4.0 to 6.0, comprising an approximately 1% solution of animal glue in water, sufficient alkaline material to give a resultant pH of approximately 8.0 to 10.0, and a mildly alkaline water-soluble soap-like colloid, said colloid being present to the extent of from 3% to 12% dry basis based on the weight of glue.

2,403,144

COMPOSITION FOR EFFECTING AGGLOMERATION OF SOLIDS IN AQUEOUS SUSPENSIONS

Richard Tutt, Jr., John R. Hubbard, and Charles R. McKee, Gowanda, N. Y., assignors to Peter Cooper Corporations, Gowanda, N. Y.

No Drawing. Application November 21, 1944, Serial No. 564,558
6 Claims. (Cl. 252—181)

1. An agglomerating composition comprising approximately a 1% animal glue solution in water, from 5% to 20% based on the weight of dry glue of a chromic salt, and from 3% to 12% dry basis of a mildly alkaline water soluble soap, each based respectively on the dry weight of the glue.

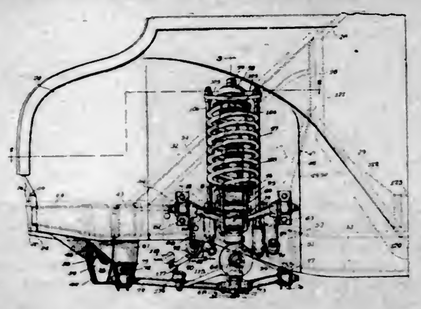
2,403,145

WHEEL AND MOTOR SUSPENSION, ESPECIALLY FOR AUTOMOBILES

Theodore Ulrich, Milwaukee, Wis., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 17, 1941, Serial No. 402,877
6 Claims. (Cl. 296—28)

1. In a self-sustaining vehicle body- or combined vehicle body- and chassis-structure; a dash board and a toe board extending rearwardly and downwardly from the dash board, side panels connected to the lateral margins of said dash and toe boards, wide webs attached to said side panels and said toe board and arranged in an upright plane extending transversely to the longitudinal direction of the body structure from the upper region of the toe board downwardly and



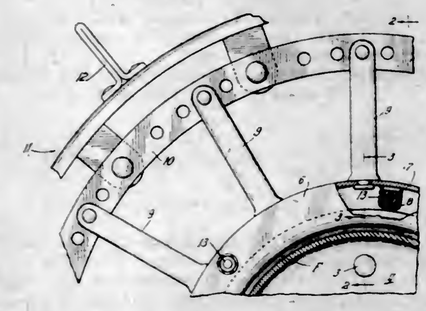
toward the longitudinal middle line of the body, said panels constituting main structural stress-transmitting parts of said structure, parts of the running gear being fastened to said panel in the regions where they are reinforced by said webs.

2,403,146

WHEEL

Daniel W. Voorhees, Quincy, Ill.

Application August 17, 1942, Serial No. 455,044
2 Claims. (Cl. 301—79)



1. In a wheel structure, a spoke connection comprising a hollow ring member of substantially U-shape in cross section, said ring member having a connecting web portion with inturned substantially parallel side flanges, and a plurality of spokes having the inner ends thereof secured to the web portion of the ring member and extending substantially vertically outward therefrom, adapted to be secured to a rim, a hub member, and means for detachably securing said ring member reversibly and interchangeably in different positions relative to the hub member.

2,403,147

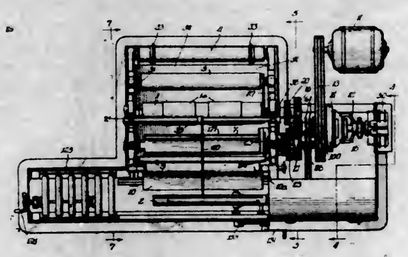
AUTOMATIC WINDING MACHINE

Carl C. Westergaard, Chicago, Ill., assignor to Reichel & Drews, Inc., Chicago, Ill., a corporation of Illinois

Application April 22, 1942, Serial No. 439,975
10 Claims. (Cl. 242—56)

3. In an automatic winder for rolling up a web of material, a mandrel on which the web is rolled, a pair of feed rolls for feeding the web to the mandrel, a source of power, clutch means for connecting said source of power to said feed rolls

and mandrel to drive the same, a knife, means including a slip clutch for connecting said knife to said source of power, lock means for holding said knife, a measuring wheel engaging said web,



and means controlled by said measuring wheel for operating said lock means to release said knife to sever the web and for operating said clutch means to disengage said source of power from said mandrel and feed rolls.

2,403,148

METHOD OF MAKING FLUOBORIC ACID AND ITS COMPOUNDS

Wayne E. White, Plum Township, Allegheny County, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application January 17, 1945, Serial No. 573,318
8 Claims. (Cl. 23—139)

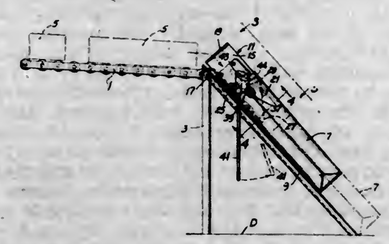
1. The process of producing fluoboric acid which comprises heating ammonium fluoborate at a temperature of at least 250° C. and heating the vapor thus formed at a temperature of at least 600° C.

2,403,149

BAG FILLING APPARATUS

Russell J. Williams, Richmond Heights, and Arthur S. Littlefield, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri

Application November 15, 1943, Serial No. 510,262
1 Claim. (Cl. 226—18)



Bag filling apparatus comprising an operatively fixed slide platform sloping up from a datum toward an article-receiving point, an operatively fixed chute mounted on said platform near its upper end and comprising a bottom spaced over and substantially parallel to the platform to accommodate between it and the platform one side of a bag, side walls on the chute tapered at their lower ends to function as spreaders for a bag mouth, the bottom of which mouth is placed on the platform and moved up under the chute bottom while the sides of the mouth become placed flatwise outside of said side walls and the top of the mouth spans between said walls, friction clutch means at the outsides of said walls and biased thereto, both of said clutch means when biased freely admitting said mouth sides but preventing retraction of the bag when loaded, being thereby operable automatically to hold a bag applied to the chute from the bottom, and manual means for simultaneously overcoming the biases of the clutch means for simultaneously releasing both of said automatic clutch means at the will of an operator.

2,403,150

EXPANSION EARTH ANCHOR

Chester R. Pieper, Warrenton, Mo.

Application September 15, 1944, Serial No. 554,274
3 Claims. (Cl. 189—92)



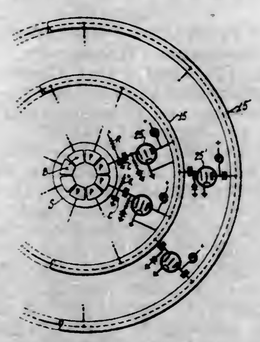
1. An expansion anchor comprising opposed blades having adjacent end portions pivotally connected together, a rod extending slidably through an opening at the connected ends of said blades, a generally rectangular, channel shaped strain plate secured to the lower end of said rod, locking lugs projecting from the under surface of said blades engageable with the ends of said strain plate to secure the blades in expanded position, a slotted member secured to the under surface of at least one of said blades, and a projection on said strain plate, extending into and slidable along the slot in said member, whereby to maintain said blades in fixed angular relation to said strain plate, about said rod.

2,403,151

TUNED CIRCUIT AND SYSTEM THEREFOR

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 26, 1942, Serial No. 459,784
16 Claims. (Cl. 178—44)

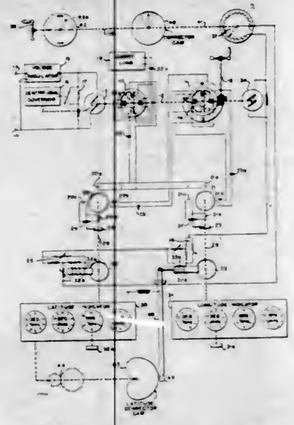


1. The combination with a tuned circuit comprising a two-conductor transmission line closed upon itself to form an endless structure of uniformly distributed constants, the conductors of said tuned circuit being electrically continuous from a direct current standpoint, of a plurality of vacuum tubes having their output electrodes coupled at spaced points to said tuned circuit and their input electrodes so excited that the output of said tubes increases the energy of the traveling waves in said tuned circuit, rather than the energy of the standing waves.

2,403,152
ELECTRICAL POSITION INDICATING SYSTEM

Herbert C. Roters, Roslyn, N. Y., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware

Application November 2, 1942, Serial No. 464,306
11 Claims. (Cl. 235—61)



1. An electrical system for indicating the course of a mobile vehicle comprising, means for generating a primary alternating current electrical signal and two secondary alternating current electrical signals, means for varying the phase of said primary and secondary signals relative to each other in accordance with the direction of the course of said vehicle, a pair of integrating indicating means jointly energized by said primary signal and individually energized by said secondary signals and responsive to the relative phase thereof, and means for controlling the action of said integrating means in accordance with the velocity of said vehicle, whereby each of said integrating means indicates the position of said vehicle in one direction.

2,403,153
PICKLING INHIBITOR

Albert J. Saukaitis, Wayne, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware

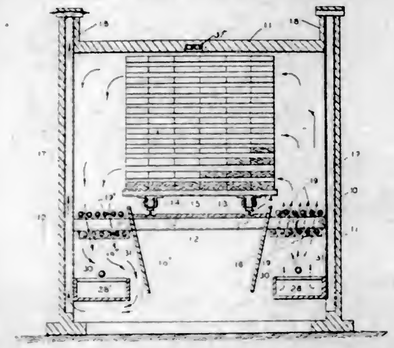
No Drawing. Application April 6, 1942, Serial No. 437,827
8 Claims. (Cl. 252—149)

1. As a material for inhibiting the attack of acid solutions on metal surfaces, the organic reaction product formed by heating to effect chemical interaction among the following materials; an organic chloride chosen from the group consisting of ethylene dichloride, propylene dichloride, dichloroethyl ether, dichloroisopropyl ether, triglycol dichloride, tetraglycol dichloride, benzyl chloride, and naphthyl methyl chloride; a cyclic coal tar base; and a substance chosen from the group consisting of water-soluble inorganic thiocyanates and thiourea; the proportions of the said reactants being chosen so that approximately one gram atom of basic nitrogen is added in the form of the said coal tar base, and approximately one gram equivalent, in the aggregate, of the groups thiocyanate (CNS) and thiourea ($SC(NH_2)_2$) is added in the form of a substance chosen from said group of water-soluble inorganic thiocyanates and thiourea, for each gram atom of chlorine added, in the form of the said organic chloride.

2,403,154
DRY KILN

R. A. Simmons, Vernonia, Oreg.

Application July 1, 1944, Serial No. 543,158
3 Claims. (Cl. 34—46)



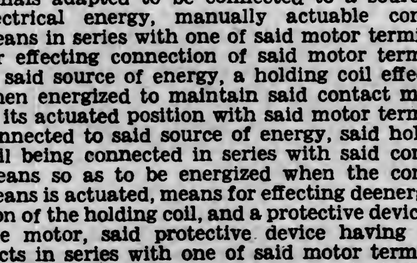
1. A dry kiln of the character described including air outlets located at the sides of the kiln, the entrances into said outlets located near the bottom of the kiln, a pair of air conduits extending longitudinally through the kiln, said conduits located at the sides of the kiln respectively and immediately above the entrances into said outlets, means at the ends of said conduits controlling the passage of outside air into said conduits, slots in the top walls of said conduits, the total area of the slots of each conduit being less than the cross-sectional area at the entrances to the conduit, a spray pipe located above each conduit, heating coils located above each conduit and spray pipe, whereby the air entering into the kiln through either conduit can be humidified and heated as it passes upward from said slots, a central flooring extending the length of the kiln, said flooring spaced from the sides of the kiln and located above said conduits, baffle walls extending downwardly from each side of said flooring, the conduits and coils located between the baffle walls and the side walls of the kiln respectively, the bottom edges of said baffle walls spaced from said conduits respectively, said baffle walls preventing currents of air from passing crosswise immediately below said flooring and said flooring preventing currents of air from moving in vertical direction at the longitudinal center of the kiln, whereby the opening of one of said conduits and the closing of the other of said conduits will cause air currents to pass more or less in horizontal direction from one side of the kiln to the other above said flooring, and the opening of said other conduit and the closing of the first mentioned conduit will cause air currents to pass in reverse horizontal direction above said flooring, conveyor-supporting means extending along said flooring, and a system of valves controlling the passage of steam into said spray pipes and heating coils to enable delivery of steam to be restricted to the heating coils and spray pipe located above the conduit which is open.

2,403,155
PORTABLE HEATER

Thomas F. Spackman, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application February 22, 1943, Serial No. 476,727
8 Claims. (Cl. 280—9)

1. In a carriage, a pair of runners upwardly turned at the ends, a frame structure carried by the runners, a pair of swinging arms each pivoted at one end to opposite sides of the frame structure, a pair of wheels one mounted upon the swinging end of each of the swinging arms, a shaft extending across the carriage interconnecting the swinging arms, and means for locking the swinging arms releasably in either of two positions on opposite sides of a dead center position lower than either of said two positions, one position of the swinging arms being such as to hold the wheel treads above the lower surface of

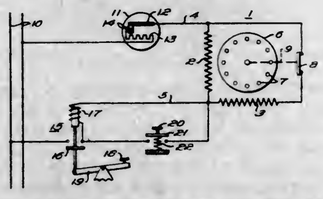


the runners and the other position of the swinging arms being such as to hold the wheel treads below the lower surface of the runners, the arrangement being such that when said arms are released with the arms in either of said two positions and with the carriage tipped upwardly to subtantially vertical position above the upwardly turned ends of the runners the arms are adapted to swing past the dead center position so as to be brought to the other of said two positions and to be locked releasably in such other position.

2,403,156
ELECTRIC MOTOR CONTROL

Wendell C. Spear, Wapakoneta, Ohio, and Langdon C. Schaefer, Honolulu, Territory of Hawaii, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 30, 1942, Serial No. 470,570
5 Claims. (Cl. 175—294)

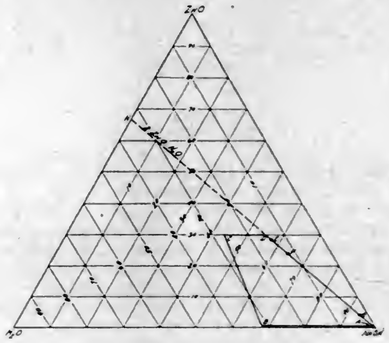


1. In combination, an electric motor having terminals adapted to be connected to a source of electrical energy, manually actuable contact means in series with one of said motor terminals for effecting connection of said motor terminal to said source of energy, a holding coil effective when energized to maintain said contact means in its actuated position with said motor terminal connected to said source of energy, said holding coil being connected in series with said contact means so as to be energized when the contact means is actuated, means for effecting deenergization of the holding coil, and a protective device for the motor, said protective device having contacts in series with one of said motor terminals and being adapted to actuate its contacts in response to an abnormal condition of the motor to directly effect disconnection of the motor from the source of energy independently of the contact means and to effect deenergization of said holding coil.

2,403,157
MANUFACTURE OF ZINCATED ALKALIES

Walter F. Wegst, Leslie R. Bacon, and Ralph McNabney, Wyandotte, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

Application November 22, 1943, Serial No. 511,244
12 Claims. (Cl. 252—156)

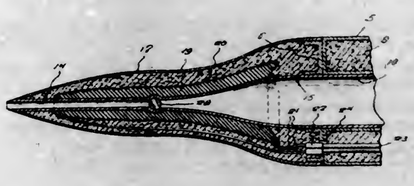


1. In the process of producing solid zincated alkalies in a medium of caustic alkali, the steps of dissolving zinc oxide in fused hydrous caustic alkali wherein the composition initially has a ratio of $ZnO:H_2O$ not greater than 2:1, contains not over 30% ZnO and falls within the approximate limits set out in the area bounded by points A, B, C and D of Figure III, preventing dehydration of the fused mass to the extent where ZnO separates from the melt, and thereafter effecting solidification thereof by cooling.

2,403,158
ELECTRIC SOLDERING IRON

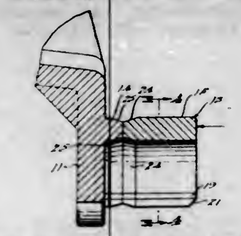
Oscar Wertheim and Louis Moses, Brooklyn, N. Y.

Application January 26, 1945, Serial No. 574,676
1 Claim. (Cl. 219—27)



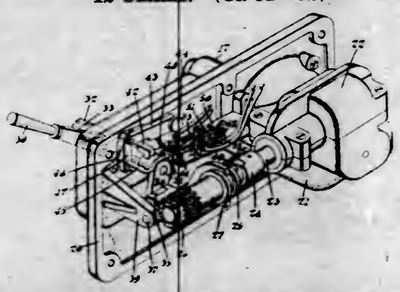
An electrically heated soldering iron comprising a barrel, a tube extending longitudinally of the barrel and adapted to contain solder to be melted, said tube having a threaded rear end and a threaded portion adjacent its front end, the front end of the tube forwardly of said last-named threaded portion tapering, a cap threaded on the rear end of the tube and engaging the rear end of the barrel, a tip threaded on the tapered front end of the tube abutting the front end of the barrel, a sleeve of compressed heat-conducting material enclosed in the tip and surrounding the tapered front end of the tube, an electric coil carried by the sleeve, insulation means between the sleeve and the tip, insulation means in the barrel, a valve in the front end of the tube, and operating means for the valve carried outwardly of the barrel.

2,403,159
METHOD OF MAKING CATERPILLAR LINKS
Charles H. Widman, Detroit, and Otto Mueller, Dearborn, Mich.
Application October 19, 1942, Serial No. 462,534
4 Claims. (Cl. 29—148.3)



1. The method of forming a link for a caterpillar track which includes the steps; of hot forming a piece of metal into the shape of the body portion of the link from which a cup-like end portion extends from one side and a C-shaped flange projects from the other side, of forming a strip of metal to the shape of said flange, and of welding the formed strip thereto.

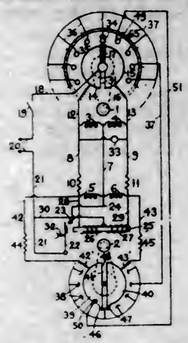
2,403,160
GRINDING MACHINE
Stephen E. Woodbury, Beverly, Mass., assignor to Reid Brothers Company, Inc., Beverly, Mass., a corporation of Massachusetts
Application January 6, 1944, Serial No. 517,208
12 Claims. (Cl. 51—92)



1. In a grinding machine having a reciprocatory table and a motor for operating the table, a self-closing switch for controlling the motor, a clutch interposed between the motor and table, a spring for causing the clutch to disengage, and a single starting lever movable to oppose said spring and to release said switch so it will close prior to the engagement of said clutch.

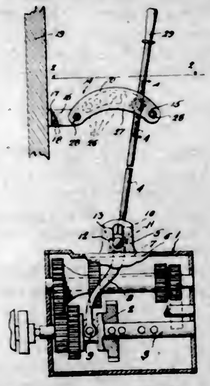
2,403,161
REMOTE-CONTROL APPARATUS
Michel N. Yardeny, New York, N. Y.
Application January 17, 1942, Serial No. 427,094
14 Claims. (Cl. 172—239)

1. A remote control apparatus comprising two reversible electric motors connected with a source of current for simultaneous rotation, means to control the rotation and stoppage of both motors in desired positions, said means including a movable contactor, a plurality of contact points at the first motor electrically connected together, the movable contactor being adapted to slidably engage the successive contact points, conducting members separated by a gap and operatively connected with the second motor, a plurality of contact points at the conducting members positioned correspondingly to the contact points at the first motor and electrically connected together, a lead connecting together the two sets of the contact points, and means to maintain rotation of the



second motor when the first motor is stopped with the contactor at one of the contact points until the gap reaches the corresponding contact point at the second motor.

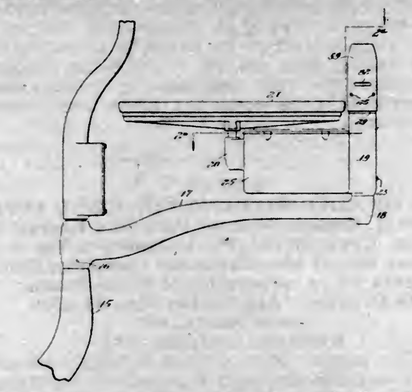
2,403,162
SHIFT LEVER FOR TRANSMISSIONS
Ottavio Zancan, New York, N. Y.
Application February 6, 1945, Serial No. 576,469
3 Claims. (Cl. 74—473)



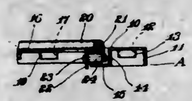
1. In a transmission including a casing and gearing in the casing having a gear shiftable along a shaft; a lever for moving the shiftable gear along its shaft to adjusted positions extending into said casing and having its inner end pivoted to said gear, a block extending outwardly from said casing and formed with a passage through which said lever passes, the block being formed with slots at opposite sides of the passage extending radially of the gear and the shaft, and a fulcrum pin for said lever passing transversely through the lever with end portions projecting from opposite sides of the lever and slidably engaged in the slots whereby the pin may have longitudinal movement radially of the shaft and the gear as the lever is tilted to move the gear along the shaft.

2,403,163
ELECTRICAL HEATING DEVICE
Eugene R. Ziegler, Spencerport, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application September 16, 1944, Serial No. 554,394
9 Claims. (Cl. 219—39)

1. An electrical heating device comprising a housing having an air passage therethrough provided with inlet and outlet openings, means movably associated with said housing having a portion located above said outlet opening thereof and formed to receive an article to be heated, spaced electrodes in said housing below said outlet opening thereof, an electrical circuit including said electrodes and a source of high potential current, switch means controlling said circuit, and a connection between said article receiving means and said switch means for actuating said switch means by the movement of said receiving means.

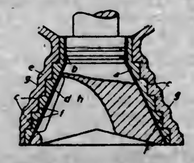


2,403,164
REFRIGERATOR SHELF
Robert S. Ahrens and Walter A. Ellsworth, St. Paul, Minn., assignors to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application June 15, 1944, Serial No. 540,463
2 Claims. (Cl. 211—135)



1. A refrigerator shelf comprising a shelf body, a circular aperture therein, a flange on said shelf body projecting into said aperture, a round rotatable shelf portion, a downwardly extending flange means on said rotatable shelf portion at the periphery thereof, downwardly projecting ears on said shelf portion adjacent the flange means, and roller means rotatably supported between said ears and said flange means, said roller means resting upon said inwardly extending flange.

2,403,165
BEARING SURFACE FOR TAPERED ROTARY VALVES OF ENGINES AND PUMPS
Frank Metcalf Aspin, Bury, England
Application June 16, 1943, Serial No. 491,010
In Great Britain March 16, 1942
3 Claims. (Cl. 251—103)



1. A housing and liner for a conical rotary valve characterized in that the contiguous surfaces of the housing and liner are substantially conical in form and have a wide angle of taper too great, if smooth, for a pressed or shrunk fit and requiring end clamping means, said surfaces comprising a plurality of interengaging complementary substantially cylindrical annular surfaces progressively inwardly offset from one another diametrically of the housing and liner in continuous stepped arrangement, and horizontal abutting surfaces progressively inwardly offset from one another diametrically of the housing and liner, the complementary vertical cylindrical surfaces of the housing and liner being adapted to be gripped by shrinking engagement with each other.

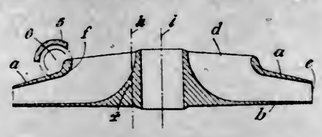
2,403,166
PLASTIC PACKING
Herman E. Ballard, Berkeley, Calif.
No Drawing. Application March 1, 1941, Serial No. 381,410
4 Claims. (Cl. 260—23)

3. A plastic packing consisting of about 75% minute discrete particles of chloroprene polymer suspended in a gel binder which does not lower the tensile strength of said particles.

2,403,167
LUBRICANT
Herman E. Ballard, Berkeley, Calif.
No Drawing. Application March 1, 1941, Serial No. 381,411
4 Claims. (Cl. 252—37)

1. A sealing and lubricating composition comprising finely divided particles of synthetic rubber material of the class consisting of butadiene polymer and copolymer, chloroprene polymer, organic polysulphide, and plasticized vinyl chloride polymer distributed in discrete and undissolved form throughout a mixture of petrolatum and aluminum stearate.

2,403,168
MACHINE FOR PRODUCING CONVEX SURFACES
John Thomas Bolas, Raymond William Edwards, and William Joseph Latty, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application May 30, 1944, Serial No. 538,024
In Great Britain May 25, 1943
8 Claims. (Cl. 90—31)

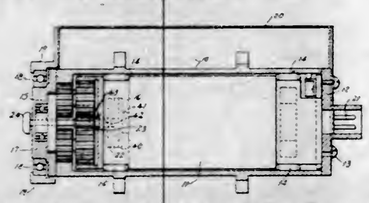


1. A machine tool comprising a cutter mounted to oscillate about one axis and perform cutting and non-cutting strokes alternately, a work-support mounted to turn relatively to the cutter about a second axis transverse to and spaced from the first axis, a fluid motor connected to the cutter to oscillate it about the first axis, feeding means for turning the work-support, relatively to the cutter, about the second axis step by step in one direction, a second fluid motor connected to the feed means to actuate it to effect one step of turning movement, a source of fluid under pressure, valve means actuated by the cutter motor at the end of each non-cutting stroke of the cutter to admit fluid from said source to the second motor to actuate it to turn the work-support relatively to the cutter through one step.

2,403,169
FLUSHING LIQUID FOR CLEANING INTERNAL-COMBUSTION ENGINES
Robert E. Burk, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 12, 1941, Serial No. 393,135
3 Claims. (Cl. 252—161)

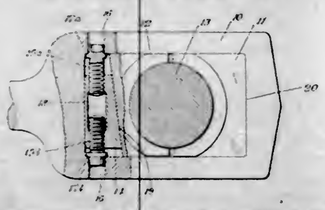
1. A flushing liquid for cleaning internal combustion engines, comprising at least four per cent of a metal salt of the reaction product of degras and phosphorus pentasulphide, and a semi-neutralized unsaponified fat which has been treated with phosphorus pentasulphide, in a liquid vehicle consisting of a light mineral oil distillate of deficient lubricating property and of viscosity not greater than that of light spindle oil.

2,403,170
AMMUNITION FEED BOOSTER
James E. Chapman, Los Angeles, and George A. Bussiere, Inglewood, Calif., assignors to North American Aviation, Inc., Inglewood, Calif., a corporation of Delaware
Application November 29, 1941, Serial No. 420,958
7 Claims. (Cl. 89—33)



1. An ammunition feed booster for machine guns including a hollow sprocket, an electric motor within the hollow of the sprocket, a circuit for the motor, and a magnetic clutch also in the circuit and disposed to operatively connect the motor with the sprocket interiorly thereof upon closing of the circuit, and the clutch being constructed and arranged to resist rotation of the sprocket when the circuit is broken.

2,403,171
BEARING ADJUSTING MEANS
Fay Vincent Cook and John Ray Polston, Tulsa, Okla., assignors to Stanolind Pipe Line Company, Tulsa, Okla., a corporation of Maine
Application February 6, 1943, Serial No. 474,908
3 Claims. (Cl. 308—68)

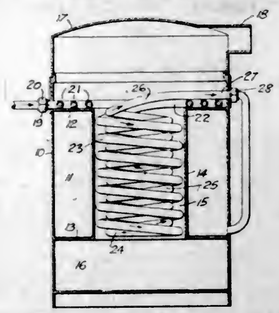


1. An improved means for adjusting a split type bearing, said means comprising a bearing retaining means a wedge slidable within said retainer, an axially aligned passageway extending between the leading and trailing edges of said wedge, thread engaging means in said passageway, compression members extending between said wedge and said retaining means, said compression members being provided with threaded means for engagement with said wedge, a shoulder adapted to contact said bearing retainer and a head having a diameter smaller than the diameter of said shoulder, aligned supporting means carried by the bearing retaining means adapted to receive said heads, the arrangement of said shoulder and the aligned supporting means providing substantially unrestricted longitudinal movement of said compression member toward said wedge one of said compression members being adapted to urge the wedge in the direction of its leading edge and the other being adapted to oppose the first member in compression thereby locking the wedge for the desired bearing adjustment.

2,403,172
ART OF MOLDING RESINS OF VINYL TYPE
Walter S. Crowell, Melrose Park, and George W. Birch, Upper Darby, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application June 30, 1939, Serial No. 282,060
8 Claims. (Cl. 260—36)

1. The process of producing moldable masses having a synthetic resin base, which comprises treating a high-chloride-content vinyl-ester-polymer resin of interpolymerized vinyl acetate and vinyl chloride with monomeric methyl methacrylate until the vinyl-ester-polymer resin is uniformly swollen but not dissolved, and in the proportion of 10 to 40 percent of monomeric methyl methacrylate in the swollen product.

2,403,173
WATER HEATING UNIT
Max Doerner, New York, N. Y.
Application December 29, 1944, Serial No. 570,312
1 Claim. (Cl. 122—250)

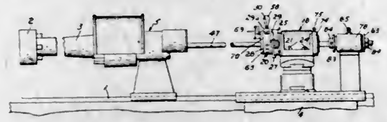


In a steam boiler including a structure having a firebox, a flue connection, a duct between the firebox and flue connection forming a waste gas passage, a chamber around said duct for water and generation of steam, a water heating unit comprising a plurality of horizontally disposed coils of pipe having an inlet, a plurality of vertically descending coils of pipe connected to said horizontally disposed coils, and a plurality of vertically ascending coils of pipe concentric with, and forming the continuation of the lowest coil of, said plurality of coils of descending pipe, said vertically ascending coils of pipe having an outlet, and a union connection at, respectively, said inlet and said outlet, said inlet being connected to the feed water supply for the boiler, and said outlet being connected to the bottom of said chamber, the said horizontally disposed coils being disposed on top of said chamber forming a support for the unit, said descending and ascending coils being located in said waste gas passage.

2,403,174
TREATMENT OF FISH WATER
Robert C. Ernst, Louisville, Ky., assignor, by mesne assignments, to General American Transportation Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application February 19, 1945, Serial No. 578,801
2 Claims. (Cl. 99—2)

1. An improvement in the process of treating fish water by evaporation to increase the concentration thereof and simultaneously maintain the solubility of the constituents thereof comprising: adding, to the fish water, a quantity of an acidic phosphitic compound sufficient to maintain the pH of the water in the acid range during evaporation, said acid compound being of a character to form only compounds which remain substantially soluble throughout the evaporating step.

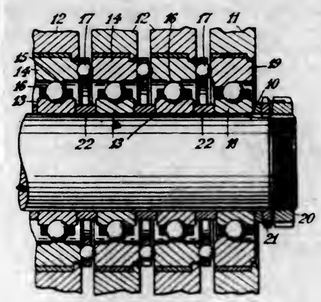
2,403,175
LATHE ADAPTER
Herman C. Graebe, Bridgewater, Mass., assignor to Carver Cotton Gin Company, Division of The Murray Company, East Bridgewater, Mass., a corporation of Texas
Application July 9, 1943, Serial No. 494,057
4 Claims. (Cl. 77—3)



1. For use in a machine tool having a longitudinal bed, a tool holder comprising a bearing bracket arranged to be mounted on the bed of the machine tool, a hollow bushing rotatably mounted in said bearing bracket and arranged to surround a tool shank, a clamp secured on said bushing and arranged to engage the tool shank, an operating member movably mounted on said bushing and engageable with said clamp to tighten said clamp on the tool shank whereby the bushing may be rigidly secured to the tool shank, means for securing said bushing to said bearing bracket against relative rotation, means for releasing said last mentioned means operative upon application of a predetermined torque between said bushing and said bearing bracket, thereby producing rotation of said bushing relative to said bearing bracket, and a stop engageable by said operating member during such rotation of said bushing whereby said operating member is moved to a released position relative to said clamp.

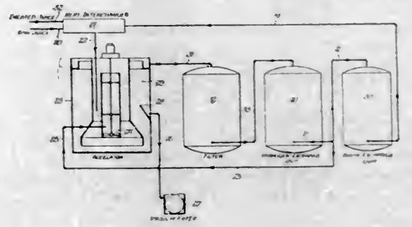
2,403,176
BEARING
Alan Arnold Griffith, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application October 7, 1943, Serial No. 505,390
In Great Britain April 15, 1941
3 Claims. (Cl. 308—174)

1. The combination of a shaft, a plurality of relatively rotatable co-axial rotors thereon, a radial anti-friction bearing for each rotor having the inner surface of its outer races of plain cylindrical form, spacing pieces between the inner races of said radial bearings, said shaft having a lower co-efficient of thermal expansion than the assemblage of inner races and spacing pieces on it, a plurality of axial thrust-bearings disposed respectively between the outer races of said radial



bearings, and means for applying an axial loading to said rotors and thrust-bearings.

2,403,177
SUGAR TREATMENT
Hilding B. Gustafson, Hinsdale, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application May 11, 1944, Serial No. 535,109
6 Claims. (Cl. 127—46)

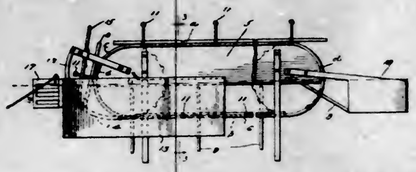


1. A method of purifying raw sugar juices comprising passing entering raw juice and acid effluent from a hydrogen exchange bed into a mixing and reaction zone and mixing and agitating the juices therein in and with a circulating slurry containing previously precipitated solids suspended in juice undergoing treatment, whereby colloidal impurities are precipitated on previously precipitated particles, separating the precipitate from the juice, concentrating and withdrawing a portion of separated precipitate, filtering the separated juice, passing the filtered juice through a hydrogen exchange bed, passing a portion of acid effluent from the hydrogen exchange bed corresponding to the quantity of entering raw juice through an anion exchange bed, returning the balance of said acid effluent to said mixing and reaction zone and mixing it therein with newly entering raw juice in and with said slurry, and withdrawing treated juice from said anion exchange bed.

2,403,178
CURRENT MOTOR
Ralph Waldo Harbaugh, Miles City, Mont.
Application December 2, 1943, Serial No. 512,613
1 Claim. (Cl. 170—92)

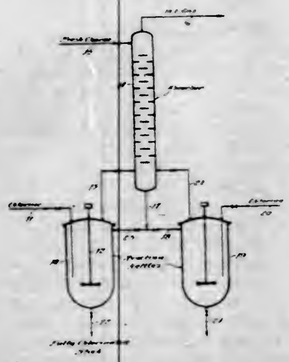
A current motor comprising a float, rotary shafts extending transversely through front and rear end portions of said float, sprocket wheels carried by said shafts, trackways at opposite sides of said float, each trackway having upper and

lower flights extending longitudinally of the float and arcuate portions connecting ends of the companion upper and lower flights, the said lower flights having lateral flanges along their upper and lower edges, auxiliary track members disposed forwardly of opposite sides of said float and extending downwardly at a rearward curve with their lower ends normally registering with front ends of the lower flights, sprocket chains extending along the trackways and trained about said sprocket wheels, panels between said chains



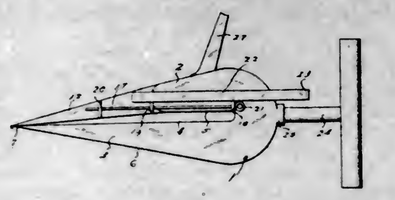
having pivot shafts carried by said chains, arms extending from the pivot shafts laterally of the panels and having rollers at their free ends for following the auxiliary track members and engaging between flanges of the lower flights to hold the panels vertical while moving rearwardly under the float, and means for shifting lower portions of the auxiliary track members downwardly out of position for directing the arms and their rollers into position for engaging between flanges of the lower flights.

2,403,179
CHLORINATION OF HYDROCARBON MIXTURES
Carl Max Hull and Edmond L. d'Ouville, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 20, 1942, Serial No. 466,287
4 Claims. (Cl. 204—163)



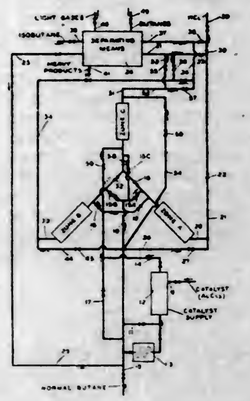
1. The process of preparing a chlorinated hydrocarbon plastic by chlorination of hydrocarbons in the substantial absence of volatile solvents which comprises dissolving in a melted paraffin wax a propylene polymer having a molecular weight above 800, said wax constituting 10 to 70 per cent of the resulting mixture, introducing chlorine into the hydrocarbon mixture at a temperature of about 100 to 300° F. whereby the chlorine is rapidly absorbed in the hydrocarbon mixture and the polymer and paraffin are evenly chlorinated, and continuing the introduction of chlorine until the concentration of chlorine in the product reaches 40 to 75 per cent by weight thereof.

2,403,180
CLAMPING IMPLEMENT
Harold T. Jones, Vallejo, Calif.
Application July 14, 1945, Serial No. 605,014
3 Claims. (Cl. 294—104)



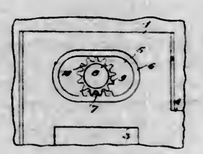
1. In an implement of the character described, a flat-sided hook-shaped body comprising a bight portion, a beak portion and a relatively longer bar-like jaw-forming member extending from said bight portion with opposed edges spaced apart and parallel, a movable bar-like jaw pivoted at one end to said beak portion for swinging movement toward and from said member, a resilient rod extending alongside said beak portion and movable jaw and attached thereto, said rod yieldingly urging the movable jaw toward said member into engagement therewith, said member and movable jaw being tapered edgewise to form when the movable jaw is engaged with said member a wedge, a handle extending from said bight portion, and manipulative means to swing said movable jaw away from said member.

2,403,181
PROCESS FOR THE ISOMERIZATION OF LOW-BOILING SATURATED HYDROCARBONS
Jean Paul Jones, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 27, 1944, Serial No. 537,716
12 Claims. (Cl. 260—683.5)



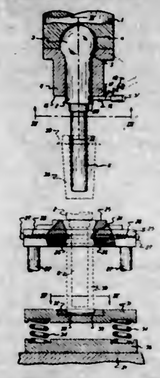
1. A process for the isomerization of normal butane to form isobutane, which comprises passing a gaseous normal butane-aluminum chloride mixture, in the substantial absence of any hydrogen halide, to the first end of a first elongated zone containing a stationary mass of adsorptive catalyst support and thereby effecting deposition of the aluminum chloride content of said mixture on said support, continuing to pass said mixture until said mass contains a catalytic amount of aluminum chloride, the concentration of said aluminum chloride being highest at said first end and decreasing to substantially zero at said second end, discontinuing passing said mixture prior to the appearance of any substantial amounts of aluminum chloride in the effluent from the second end of said zone, subsequently passing a gaseous normal butane-hydrogen chloride mixture to said second end of said first zone, maintaining the contents of said zone under isomerization conditions, passing gaseous effluents from the first end of said first zone to the first end of a second elongated zone containing a stationary mass of adsorptive catalyst support under conditions such that effluents of said second zone are substantially free from aluminum chloride, passing effluents from the second end of said second zone to separating means and recovering therefrom isobutane so produced, discontinuing the last said flow of material when the catalyst activity has decreased to an undesired extent, passing a gaseous normal butane-aluminum chloride mixture, in the absence of any hydrogen halide, to said first end of said second zone and thereby effecting deposition of the aluminum chloride content of said mixture on said support, continuing to pass said mixture until said mass contains a catalytic amount of aluminum chloride, the concentration of said aluminum chloride being highest at said first end and decreasing to substantially zero at said second end, discontinuing passing said mixture prior to the appearance of any substantial amounts of aluminum chloride in the effluent of the second end of said second zone, subsequently passing a gaseous normal butane-hydrogen chloride mixture to said second end of said second zone, maintaining the contents of said zone under isomerization conditions, passing gaseous effluents from the first end of said second zone to the first end of said first zone under conditions such that the effluents of said first zone are substantially free from aluminum chloride, and passing effluents from the second end of said first zone to separating means and recovering therefrom isobutane so produced.

2,403,182
ADJUSTABLE STRIKE PLATE FOR DOOR LOCKS
James F. Leary and Chester W. Michatek, Rochester, N. Y.
Application April 16, 1945, Serial No. 588,456
5 Claims. (Cl. 292—340)



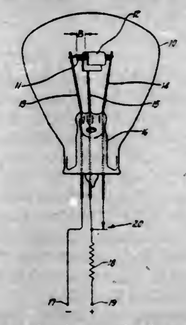
1. The combination with an adjustable strike plate having a slot extending therethrough, of a toothed rack along one side of said slot, a retaining device comprising a pinion located inwardly of the outer face of the strike plate and positioned in said slot in engagement with said toothed rack, and fastening means extending through said pinion into a supporting frame and engaging the strike plate and pinion and acting to hold the pinion in interlocked relation to the supporting frame and strike plate and to retain the strike plate against the supporting frame.

2,403,183
DRAWING PRESS
Alidor Lefere, Jackson, Mich., assignor to Lefere Forge & Machine Company, Jackson, Mich., a corporation of Michigan
Application April 30, 1941, Serial No. 391,083
3 Claims. (Cl. 29—33)



1. In a drawing press, an axially vertically movable mandrel for receiving thereon a piece of work open at one end, a drawing die through which the work is forced by said die to draw the work, a stripper associated with said mandrel, operative upon return movement of said mandrel, an impressing die in the path of movement of the work moved by said mandrel, a resilient support for said impressing die, whereby said work is moved by said mandrel through said drawing die into engagement with said impressing die to impress the same, the resistance offered by said support being great enough to overcome the resistance to being impressed offered by the work, said impressing die being so arranged that following withdrawing of the mandrel and stripping of the work therefrom, said impressing die constitutes a support on which the work remains by gravity, and an annular support concentric with, adjacent and beneath said stripper for maintaining the top of the work against lateral movement while supported on said die.

2,403,184
ELECTRIC DISCHARGE LAMP
Eugene Lemmers, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application December 26, 1942, Serial No. 470,119
3 Claims. (Cl. 176—122)



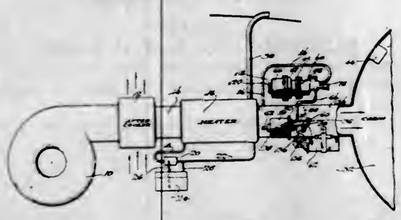
1. A gaseous electric discharge device of the low pressure cathode glow type capable of starting and operating on an approximately 12-volt circuit and comprising a sealed envelope contain-

ing an ionizable gaseous medium at a pressure of the order of a few millimeters and a stationary thermionic cathode and an anode, a pair of lead-in conductors extending into said envelope and connected to the ends of said cathode for passage of pre-heating current therethrough during starting of the device, and a third lead-in conductor connected to said anode, said cathode comprising a filamentary coil of appreciable resistance coated with electron-emissive material, said anode being so located that it is spaced from the negative end of said cathode a distance greater than two millimeters but less than five millimeters but being not more than two millimeters from a portion of said cathode which is appreciably more positive than its negative end.

2,403,185
PREPARATION OF SULPHONIC COMPOUNDS
Norman E. Lemmon, Hammond, Ind., and David W. Bransky and Eugene E. Langan, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 30, 1943, Serial No. 516,312
9 Claims. (Cl. 260—504)

1. In the preparation of preferentially oil-soluble sulphonic acid soaps in which a hydrocarbon oil is treated with fuming sulphuric acid, the acid sludge separated and the sour oil neutralized to form preferentially oil-soluble sulphonates, the improvement comprising contacting the sour oil with from 1% to about 5% of a solid sorbent material whereby substantially all of the unreacted sulphuric acid is removed from the sour oil, removing the sorbent material and neutralizing the filtrate whereby preferentially oil-soluble sulphonic acid soaps substantially free of inorganic salts are obtained.

2,403,186
HEATING SYSTEM
John H. Leslie, II, Winnetka, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 6, 1943, Serial No. 478,262
9 Claims. (Cl. 237—32)



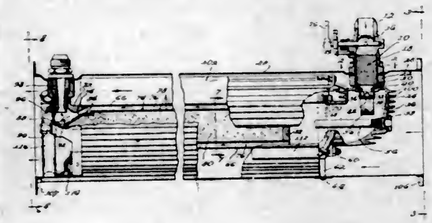
6. In a heating system for airplanes equipped with cabins supplied with air under pressure from a supercharger through a duct, a heater of the internal combustion type receiving its combustion air from said duct and having the products of combustion exhausting to the atmosphere, means for maintaining a substantially uniform difference between the pressure in said duct and the atmospheric pressure, comprising, a valve in said duct adjacent the cabin end thereof, a bellows having one side thereof subjected to atmospheric pressure and the other side thereof subjected to the pressure in said duct, air motor means for operating said valve, and pilot valve means operated by said bellows to control the admission of air under pressure to said air motor means.

2,403,187
PIPE WRENCH
Frank W. Livermont, Los Angeles, Calif., assignor to Richmont, Inc., Los Angeles, Calif., a corporation of California
Application January 17, 1944, Serial No. 518,510
1 Claim. (Cl. 81—91)



In a pipe wrench, a handle, a pipe encircling member rockably connected to said handle, a gripping jaw disposed within said encircling member and centrally pivoted upon a fixed pivot on said handle, a rotatable pin journaled in said handle transverse to the plane of movement of said encircling member, and means connecting said pin to said pipe encircling member to transmit rotation of said pin to said member to rock the latter in either direction of movement.

2,403,188
HEATING APPARATUS
Henry J. DeN. McCollum, Chicago, Ill.; Thelma McCollum, executrix of said Henry J. DeN. McCollum, deceased
Application June 17, 1942, Serial No. 447,345
2 Claims. (Cl. 158—28)

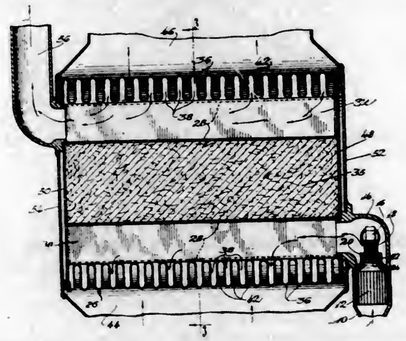


1. In a heater of the internal combustion type, a combustion chamber casting having an elbow-shaped combustion chamber formed therein, an igniter receiving opening extending into said combustion chamber, an igniter element secured to said casting and communicating with said combustion chamber through said opening, a connection to one end of said combustion chamber for supplying a combustible mixture thereto, a heat exchanger, a connection securing said heat exchanger to the other end of said combustion chamber casting, and a reigniter element extending into said combustion chamber in a direction toward said heat exchanger and removable therefrom without disturbing the other connections to said combustion chamber casting.

2,403,189
HEATER
Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased
Application October 7, 1942, Serial No. 461,122
10 Claims. (Cl. 126—116)

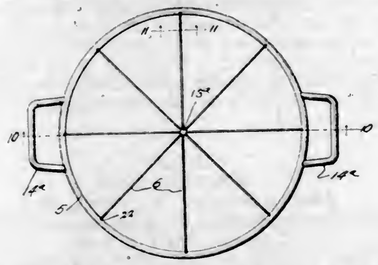
1. In an internal combustion heater, a generally cylindrical interior member having re-entrant portions in the side wall thereof to form a combustion space and an exhaust passage, means for supplying a combustible mixture to said combustion space, means for conveying products of combustion from said exhaust passage,

a length of corrugated tubing surrounding said interior member so that the spaces between corrugations on the inner surface of said tubing together with said interior member provide a plurality of passages connecting said combustion space to said exhaust passage, said corrugated tubing also forming one wall of said combustion space and one wall of said exhaust passage, a



jacket surrounding said corrugated tubing, said jacket having inlet and outlet openings, and means for supplying air to said inlet opening, said inlet opening being located substantially directly opposite said combustion space so that air entering through said inlet opening will impinge directly against the portion of said corrugated tubing which forms one wall of said combustion space.

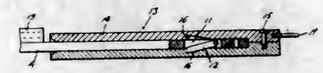
2,403,190
CAKE CUTTER
Alfredo J. Parraga, Vibora, Cuba
Application October 18, 1944, Serial No. 559,315
In Cuba November 30, 1943
7 Claims. (Cl. 30—303)



2. A cutter for circular cakes comprising a circular frame embodying a circular ring of circular cross section, and a plurality of equally spaced radial cutting elements anchored in the frame, said cutting elements being joined at the axis of the frame and anchored at their outer ends to the frame, and diametrically opposed horizontal U-shaped handles carried by and rigid with and projecting outwardly from the frame.

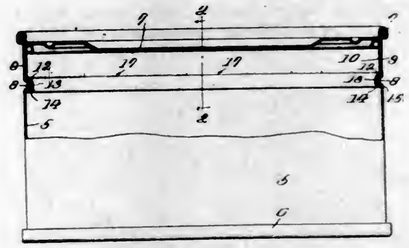
2,403,191
COOKING UTENSIL
Alvin W. Phillips, Mackinaw, Ill.
Application September 7, 1943, Serial No. 501,487
3 Claims. (Cl. 220—94)

1. A cooking utensil comprising a receptacle, an arm carried by and projecting outwardly from said receptacle in a substantially horizontal position when in use, said arm having a vertical opening through the outer portion thereof, a hollow handle snugly telescoped over the outer end portion of the arm and having an internal recess therein beneath and registered with said vertical opening of the arm, and a dog freely pivoted at one end to said arm within said opening for vertical swinging movement, said dog nor-



mally gravitating to a lowered position with its other end engaged in said recess to secure the handle on the arm and being movable by gravity to a position out of engagement with the recess and wholly within said opening to permit removal of the handle from the arm when the latter is disposed in an upwardly projecting vertical position.

2,403,192
COLLAR CAN COLLAR AND MOUNTING THEREFOR
William F. Punte, Baltimore, Md., assignor to Continental Can Company, New York, N. Y., a corporation of New York
Application July 6, 1944, Serial No. 543,655
4 Claims. (Cl. 220—54)

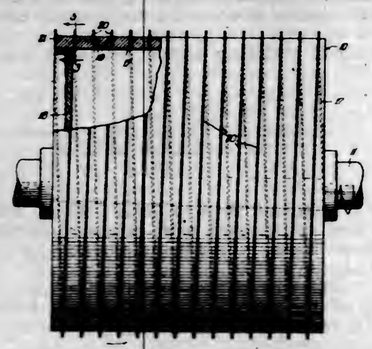


1. In a sheet metal container, a body portion, an upper end closure seamed onto the body portion, said body portion having an inwardly directed bead adjacent its upper end and being scored above said bead to provide a tear strip, and a collar snugly fitting within the body and having a main body portion lying opposite and extending above and below the tear strip and terminating upwardly in an inwardly curled bead and downwardly in an inwardly directed bead structure including an upright wall portion spaced inwardly from the can body bead, shoulder means engaging the upper portion of the can body bead and preventing downward movement of the collar and an outwardly and upwardly curled lower end extremity engaging the can body wall immediately below the can body bead.

2,403,193
DISINTEGRATING HEAD
Maxwell C. Rawson, Des Plaines, Ill.
Application February 10, 1944, Serial No. 521,805
4 Claims. (Cl. 146—89)

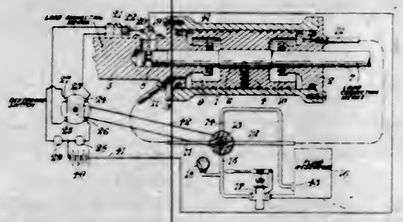
1. A disintegrating head, comprising a cylinder provided in its outer periphery with a helical groove which extends continuously from one end of the cylinder to the other in a large number of closely arranged convolutions, and a saw blade positioned in the groove with the teeth of the

blade projecting outwardly from the surface of the cylinder and with the bottoms of the gullets between the teeth disposed closely adjacent said



surface, said blade being curved edgewise in conformity with the curvature of the groove and being secured at its ends to the ends of the cylinder.

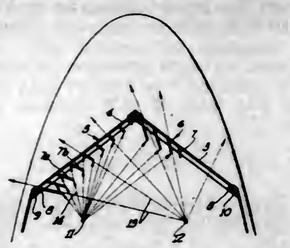
2,403,194
APPARATUS FOR MEASURING TENSILE OR COMPRESSION LOADS
William Henry Roberts, Gloucester, England, assignor to Rotol Limited, Gloucester, England, a British company
Application November 29, 1943, Serial No. 512,240
In Great Britain September 30, 1942
5 Claims. (Cl. 73—93)



1. In apparatus for measuring tensile or compression loads, the combination with a hydraulic cylinder and piston to convert the load into hydraulic pressure, and a pressure measuring gauge, of a single pump arranged to deliver a liquid into that end of the cylinder towards which the piston has been moved by the applied load for forcibly returning the piston to a neutral position before the pressure reading is taken, and a change-over-valve whereby the pump can supply either end of the cylinder and having a connection to drain.

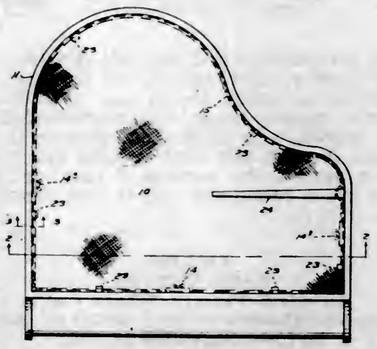
2,403,195
COCKPIT SHIELD
De Witt T. Ross, Jr., North Hollywood, Calif.
Application January 10, 1944, Serial No. 517,653
7 Claims. (Cl. 244—121)

1. A cockpit shield for use in an aircraft cockpit having a transparent windshield before a pilot's seat and a co-pilot's seat comprising a series of vertically extending louver members mounted relative to said windshield to obscure vision therethrough from the pilot's seat, said louvers being spaced from each other and lying in vertical planes converging at said copilot's seat, said louvers each having a width such that vertical planes passing through said windshield and



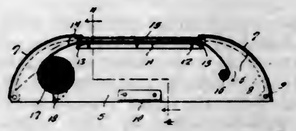
said pilot's seat will be cut by at least one of said louvers.

2,403,196
PIANO ACTION PROTECTOR
Anita Alba-de Costa Rouse, Florham Park, N. J.
Application November 27, 1944, Serial No. 565,339
4 Claims. (Cl. 84—183)



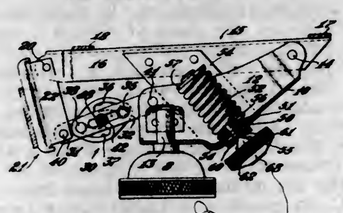
1. A protector for the interior mechanism of pianos consisting of a frame, and a flexible fabric sheet having its marginal portions passed about the frame and provided along the edge thereof with a shirring cord to place the same under tension so that its intermediate portion is supported out of contact with the strings of the piano.

2,403,197
WRITING PAD
Eugene Schaller, Yorktown, Tex.
Application September 27, 1944, Serial No. 556,016
2 Claims. (Cl. 281—7)



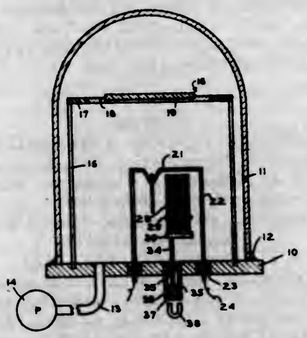
1. A writing pad of the character described comprising a housing having side walls with arcuately curved ends, oppositely disposed rolls rotatably mounted within the end portions of said housing, a horizontal writing plate having downwardly curved ends secured within said housing, said side walls having their upper edges projected inwardly and overlying the adjacent side edge portions of said writing plate, and arcuately curved end walls for said housing pivotally connected at their base to the ends of the base portion of said housing, said end walls having downwardly turned edges adapted to overlay the curved portions of said side walls.

2,403,198
CHAIR IRON
Henry W. Sheldrick and William P. Hoglund, Gardner, Mass., assignors to Collier-Keyworth Company, Gardner, Mass., a corporation of Massachusetts
Application June 6, 1944, Serial No. 538,970
6 Claims. (Cl. 155—77)



3. In a chair of the type having separate seat and back members, a chair iron for supporting the seat and back members for simultaneously tipping movement, comprising a fixed member, a seat-supporting member pivotally connected to said fixed member, a back-supporting member pivotally connected to said seat-supporting member, and adjustable means comprising a pair of relatively slidable links having pin and slot connections with each other, the end of one of the links being pivotally connected to said fixed member and the end of the other link being pivotally connected to said back-supporting member, a locking plate interposed between and pivotally connected to said links, and clamping means for frictionally locking the links and plate together to prevent sliding movement of the links from a selected position of adjustment.

2,403,199
APPARATUS FOR FORMING EVAPORATED FILMS
Joe E. Swope, Jr., Rochester, Arthur F. Turner, Brighton, and Osmar A. Ullrich, Jr., Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 24, 1943, Serial No. 503,696
5 Claims. (Cl. 91—12.2)

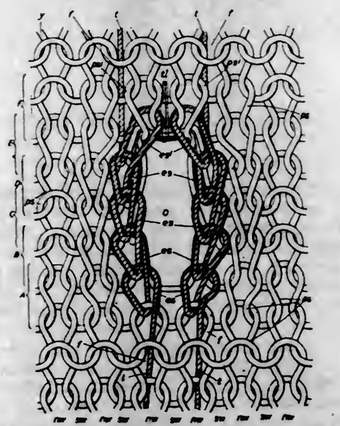


1. In an apparatus of the type described, an evacuable container; means for evacuating said container; means within said container for supporting a body to receive a film; a heating filament; means for movably supporting a plurality of rods of vaporizable material adjacent said filament; and means for moving said supporting means whereby the upper ends of said rods can be seriately moved into contact with said filament.

2,403,200
AIRCRAFT FUEL TANK LINING
Frederick T. Weiss, Normandy, Mo., and William A. Sullivan, Edwardsville, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 8, 1942, Serial No. 446,296
4 Claims. (Cl. 154—43.5)

1. A fuel tank containing a flexible liner having an innermost layer in contact with aromatic hydrocarbons, said innermost layer having improved resistance to penetration by said aromatic hydrocarbons and consisting of a synthetic rubber product of polymerization of butadiene with an unsaturated reactive compound selected from the group consisting of acrylonitrile and styrene, said synthetic rubber product having its surface only halogenated to a degree insufficient to substantially modify the normal physical characteristics thereof.

2,403,201
KNITTED FABRIC
Edwin Wildt, Henry Harold Holmes, and John Cyril Herbert Hurd, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a company of Great Britain
Application April 2, 1943, Serial No. 481,608
In Great Britain March 16, 1942
2 Claims. (Cl. 66—201)

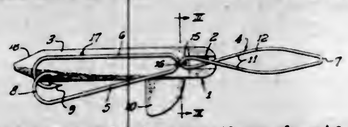


1. Knitted fabric comprising a structure composed of purl stitches and plain stitches knitted from a ground yard, and separate threads knitted into wrap effects in at least two successive needle wales of said structure, loops of the ground yarn being spread laterally in opposite directions and thereby transferred to said adjoining needle loops from an appropriate intermediate wale where they are interlooped with the combined adjoining loops and the wrap effects.

2,403,202
FISH LURE
Joseph H. Woodward, Los Angeles, Calif.
Application October 26, 1944, Serial No. 560,386
7 Claims. (Cl. 43—35)

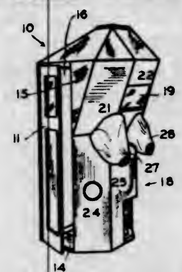
1. In a fish lure, a body member having a restricted longitudinal passage extending from one end thereof and into communication with a longitudinal recess extending from at least one side of the body, a hook member comprising a pair of arms interconnected at one of their ends, at least

a portion of said hook member being formed of resilient material to normally urge the free ends of said arms away from each other, said hook member being mounted in said body for longitudinal movement relative thereto by disposing the



connected ends of said arms through said passage and beyond the forward end of said body whereby movement of said arms forwardly relative to the body and into said passage will contract the arms toward each other and into said recess, and a hook on at least one of said arms.

2,403,203
HEAT SHIELD
Roger D. Young, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 19, 1944, Serial No. 518,823
3 Claims. (Cl. 20—2)



1. In a device for protecting a workman operating a heat-emitting machine comprising an enclosure surrounding the workman; means for circulating air through said enclosure; a pair of sleeves carried by a wall of said enclosure adjacent said machine for receiving the arms of the workman to permit the use of the hands of the workman exteriorly of said enclosure, said wall having an opening adjacent the lower edge thereof whereby the workman may extend a leg therethrough to operate foot-manipulated means of said machine; and a transparent plate carried by the wall of said enclosure for viewing the work operation.

2,403,204
HYDRAULIC SCALE
Bernard D. Feld, Birmingham, Ala.
Application December 9, 1943, Serial No. 513,585
5 Claims. (Cl. 265—47)

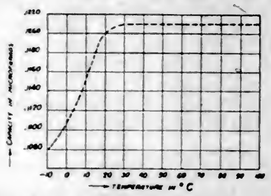


1. In a hydraulic scale, a polyhedral frame, a platform supported by the frame centrally thereof and having its longest dimension substantially shorter than any side of the frame, a plurality of hydraulic pressure producing units disposed beneath the corners of the frame, and a liquid filled bellows interposed between the frame and each of the pressure producing units.

2,403,205
DIELECTRIC COMPOSITION
Massimo Baer, Plainfield, N. J., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
No Drawing. Application November 14, 1942, Serial No. 465,632
2 Claims. (Cl. 252—66)

1. A method of producing a liquid dielectric which comprises the steps of mixing 1 mol of a mixture of the lower chlorinated naphthalenes with .57 mol of a 37% solution of formaldehyde, heating the mixture to 75° C., stirring the mixture and adding, in small portions, in the interval of about 1.5 hours a solution of 96% sulphuric acid and phosphoric anhydride while maintaining the temperature of the mixture at 78° to 80° C., stirring the mixture for 3.5 more hours at 80° to 85° C. to produce a naphthalene-formaldehyde polymer, and segregating the naphthalene polymer from said mixture.

2,403,206
DIELECTRIC COMPOSITION AND METHOD OF MAKING SAME
Massimo Baer, Plainfield, N. J., assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application June 18, 1943, Serial No. 491,345
2 Claims. (Cl. 252—66)



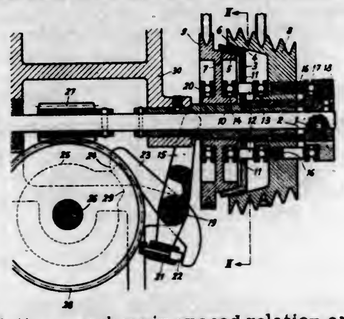
1. A method of producing a dielectric which comprises heating a mixture of 2.25 mols of dry monochloronaphthalene to about 70° C., adding about 50 grams of activated aluminum oxide, adding 1 mol of sulphur chloride at a constant rate while vigorously stirring the mass, raising the temperature to about 90–95° C. and continuing stirring until hydrogen chloride is no longer evolved, thinning the resinous product obtained and separating it from the aluminum oxide by filtration, neutralizing and washing the solution with water, steam distilling the solvent and freeing the resin so obtained from water by heating in vacuo.

2,403,207
CHEMICAL PROCESS AND PRODUCTS
Paul L. Barrick, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1943, Serial No. 478,417
17 Claims. (Cl. 260—513)

1. A process for the production of salts of polyfluoro organic acids which comprises reacting a polyfluoroethylene containing at least two fluorine atoms, two of which are attached to one carbon atom, with an inorganic sulfurous acid salt.

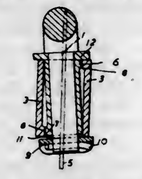
2,403,208
DISENGAGING COUPLING
André Bechler, Moutier, Switzerland
Application January 10, 1944, Serial No. 517,729
In Switzerland January 15, 1943
2 Claims. (Cl. 192—48)

1. In a disengaging friction coupling, a shaft, a friction disc rigidly connected to said shaft, displaceable friction members arranged on opposite sides of said disc to alternately cooperate therewith, an adjusting member engaged with one of the friction members, and members maintaining



said friction members in spaced relation and passing through the friction disc and operable to move the other friction member in one direction upon actuation of said adjusting member.

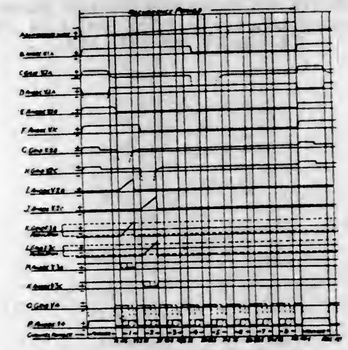
2,403,209
AGRICULTURAL IMPLEMENT
Geoffrey Maxwell Boumphrey, Pershore, England
Application August 18, 1944, Serial No. 549,981
In Great Britain August 26, 1943
4 Claims. (Cl. 97—209)



4. An agricultural implement having in combination a coulter stem, a sleeve carried on said stem, a fork carried on said sleeve, a coulter disc carried in said fork, a flange on the upper end of said sleeve, a collar detachably secured to the lower end of said stem, said flange and said collar being so shaped as to permit relative tilting between said fork and said sleeve, and cooperative means on said sleeve and fork to limit relative tilting between said fork and said sleeve.

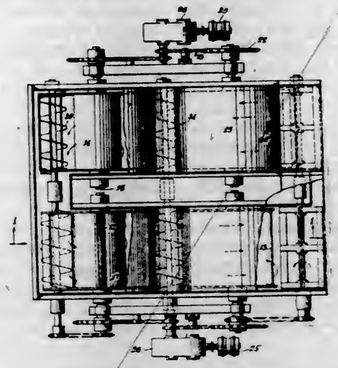
2,403,210
MULTIPLEX PULSE MODULATION SYSTEM
William Alan Stewart Butement and Alan John Henry Oxford, London, England
Application February 14, 1944, Serial No. 522,350
In Great Britain December 4, 1942
9 Claims. (Cl. 179—15)

1. A method of transmitting electrical signals from a number of channels over a single link to a receiving point and there separating and distributing them to an equal number of channels, which comprises the steps of generating at the transmitting point a separate train of voltage pulses for each channel, the repetition frequency of the pulses being the same for all the trains but the timing of the pulses in each train being different, varying the duration of the pulses in each train in accordance with variations in amplitude of the signal from the corresponding channel, generating a train of marker pulses having a repetition frequency equal to that of the channel pulses but an appreciably longer duration, interlacing the various trains of pulses, utilizing the interlaced pulses to modulate a radio frequency wave, transmitting the radio frequency wave to a receiving point, demodulating the radio frequency wave to reproduce the interlaced pulses at the receiving point, separating the marker pulses from the interlaced channel pulses, utilizing the marker pulses to control the generation of a separate train of selecting impulses of fixed duration for each channel, the timing of the se-



lecting impulses in each train being the same as that of the pulses in the corresponding train, combining in a separate circuit for each channel the interlaced pulses with the selecting impulses of one of the trains, utilizing the selecting impulses in each of said circuits to select the pulses in step therewith and to suppress the remainder, and converting the selected pulses from each circuit into a signal of varying amplitude.

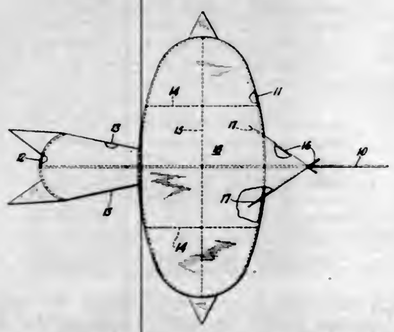
2,403,211
AGITATOR FOR CASCADE EVAPORATORS
Charles Richard Percival Cash, Canton, N. C.
Application November 21, 1942, Serial No. 466,513
2 Claims. (Cl. 159—10)



1. In an evaporator having a tank containing a pool of black liquor or the like, a gas inlet and outlet at opposite ends of said tank above the level of liquid in said pool for circulating gas longitudinally through the tank; pairs of baffle wheels rotatable on aligned axes extending transversely of said tank adjacent either end thereof; means for rotating the baffle wheel of each pair that is located adjacent the front wall of the tank in one direction and the other wheel of each pair that is located adjacent the rear wall of the tank in the opposite direction for causing circulation of the liquid in a definite path around the tank; and rotatable agitators disposed below the liquid level on axes parallel to said baffle wheels and

in locations between either end of the tank and the baffle wheels adjacent thereto for preventing deposit of material solidified from said pool and moving it away from said locations.

2,403,212
KITE
Alberto A. Concepcion, Detroit, Mich.
Application January 24, 1945, Serial No. 574,296
5 Claims. (Cl. 244—153)



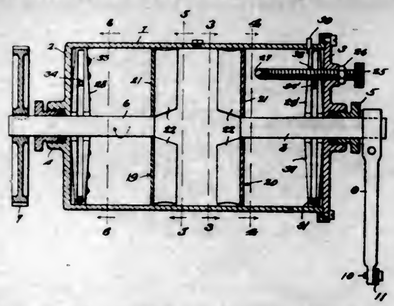
2. In a kite, a frame having projecting hook portions at each side of the center, a belly string attached to the frame at two points, a lateral string joining the belly string adjacent one of its points of attachment, the lateral string being arranged to pass back and forth through an apertured slide member to form a loop for engagement with one or the other of said projecting hook portions for adjustment of the lateral disposition of the belly string.

2,403,213
SYNTHETIC RESIN BONDED ABRASIVE
Gaetano F. D'Alelio, Northampton, Mass., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
No Drawing. Application June 16, 1944, Serial No. 540,741
12 Claims. (Cl. 51—298)

1. A heat convertible molding composition adapted to the preparation of abrasive articles which comprises a mixture of (1) a preformed solid, soluble, fusible, partial copolymerization product of a mixture comprising diallyl maleate and a compound having the structure $CH_2{=}CRZ$ where R is selected from the group consisting of hydrogen and a methyl radical and Z is selected from the group consisting of an aryl radical and a substituted aryl radical, (2) a liquid copolymerizable monomer, and (3) abrasive particles.

2,403,214
HYDRAULIC DRIVE
Albert A. Fiddler, Renton, Wash., assignor of one-half to George K. Huff, Renton, Wash.
Application February 29, 1944, Serial No. 524,501
7 Claims. (Cl. 264—12)

1. In a hydraulic drive, a casing, a driving shaft journaled in the casing, a driven shaft mounted for rocking movement in the casing, and for longitudinal sliding movement therein, toward and away from the driving shaft, opposed impellers carried by the shafts and located in the casing, and means under the control of an operator for limiting the longitudinal movement of the governor shaft in a direction away from the driving shaft, the area of each impeller being substantially equal to the internal cross section of the casing, each impeller having circumferen-



tially spaced pressure-relief openings therethrough, the openings being disposed closely adjacent to the inner surface of the casing.

2,403,215
RESINOUS COMPOSITIONS AND ELECTRICAL CONDUCTORS INSULATED THEREWITH
Harlan Foster, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 14, 1943, Serial No. 506,254
12 Claims. (Cl. 260—36)

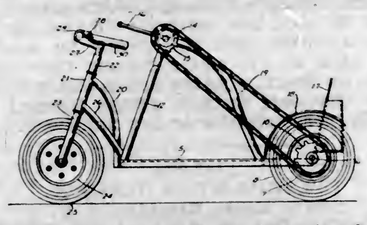
1. A composition of matter comprising the conjoint polymerization product of a mixture of vinyl chloride and a fumaric ester in the proportion by weight of said mixture of from 1% fumaric ester and 99% vinyl chloride to 25% fumaric ester and 75% vinyl chloride, a plasticizer for said polymerization product, and from 1% to 25%, based on the weight of said polymerization product, of an inorganic basic compound selected from the group consisting of alkaline earth oxides, alkaline earth hydroxides, alkaline earth carbonates, and alkali metal carbonates, said fumaric ester being slected from the group consisting of dimethyl fumarate and diethyl fumarate.

2,403,216
REMOVER FOR SWEEP WHEELS OR THE LIKE FOR REPAIRING WATCHES
Elias Gottlieb, New York, N. Y.
Application December 13, 1943, Serial No. 514,086
1 Claim. (Cl. 81—6)



A tool consisting of the combination, in one implement, of tweezers having two spring jaw members which are fastened together at their upper ends and the lower end of one spring jaw member having a reduced portion forming an inwardly bent pointed claw adapted to be inserted under the center portion of a wheel between two spokes whereas the lower end of the other spring jaw member has a reduced portion and forms an inwardly bent fork having pointed prongs adapted to be inserted under the center portion of a wheel in such a manner that a spoke of said wheel is situated between said prongs, and a central part consisting of the joined upper ends of said spring jaw members, a shoulder being provided at the inner side of each of said spring jaw members, one of said shoulders being located at the juncture between the pointed claw and its adjoining enlarged spring jaw member portion, and the other at the bottom of the slots between the claws of said bent fork, all substantially as set forth.

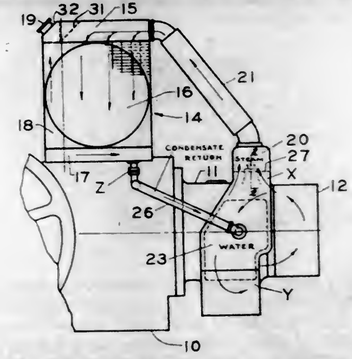
2,403,217
WHEELED VEHICLE
William J. Hale, Wise, Va., assignor of one-half to James C. Lipps, Wise, Va.
Application October 18, 1944, Serial No. 559,310
2 Claims. (Cl. 280—250)



1. A wheeled vehicle of the character described comprising a low horizontal platform, a rotatable rear axle having the rear end of the platform suspended therefrom, traction wheels secured on the ends of the rear axle and disposed at opposite sides of the rear end portion of the platform, a substantially flat transverse back rest mounted on the rear end of said platform between the rear traction wheels, said platform being provided at one side with a lateral extension projecting in front of one of the rear traction wheels, a sprocket wheel carried by said one rear traction wheel, a rearwardly and upwardly inclined post mounted on the forward end of said lateral extension and having a bearing at its upper end, a transverse horizontal shaft journaled in said bearing and equipped at its outer end with a sprocket wheel, a sprocket chain passing around said sprocket wheels, a hand crank on the inner end of said transverse horizontal shaft, a post rigid with and extending upwardly and forwardly from the forward end of the platform intermediate the sides of the latter, a steering column rigid with the upper end of said last-named post, a steering post journaled in said steering column and having a steering and supporting wheel of the same size as the rear wheels mounted in the lower end thereof, and a single steering handle secured on the upper end of said steering post and projecting laterally therefrom in a direction away from said crank when the supporting and steering wheel is disposed to travel straight ahead, the platform being unobstructed from the rear wheels to its front end at the other side thereof and being disposed near enough to the ground to enable a legless person to mount the same or dismount therefrom in front of the rear wheels and the back rest.

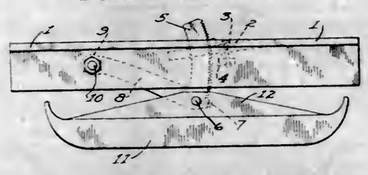
2,403,218
COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Harvey W. Hanners, Springfield, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 24, 1944, Serial No. 564,983
3 Claims. (Cl. 123—174)

2. In a vapor cooling system for internal combustion engines including an engine cylinder cooling water jacket forming a coolant chamber, a double pass radiator, the first pass of said radiator forming a primary condenser, the second pass of said radiator forming a secondary condenser providing an air escape chamber in direct communication with said primary condenser, an air vent in the uppermost portion of said secondary condenser, a flash tank positioned above and having its interior in direct communication with said jacket chamber, a connecting duct between



the top of said flash tank and the upper portion of said primary condenser, a water circulating passageway formed within said jacket chamber and being in unobstructed communication at both its upper and lower ends directly into said jacket chamber, and a second connecting duct between the lower portion of said primary condenser and said passageway.

2,403,219
SNOW PLOW SHOE HITCH
Albert L. Hanson and Charles A. Hanson, Munising, Mich.
Application October 10, 1944, Serial No. 558,030
1 Claim. (Cl. 37—41)

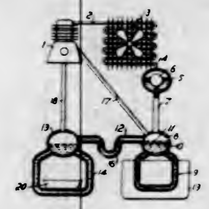


In combination with frame members of a snow plow, a cross-plate between said members, a serrated locking wedge member, an adjustable shoe supporting member mounted rotatably on a through bolt carried by the frame members and furnished with a circle sector portion having serrations matching the serrations of the aforesaid wedge said circle portion of the shoe supporting member extending upwardly adjacent the cross plate with the wedge member wedged between the supporting member and the cross plate, and a plow shoe pivotally mounted on the shoe supporting member.

2,403,220
REFRIGERATING APPARATUS OF THE COMPRESSION TYPE
Rudolf Hintze, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application February 26, 1941, Serial No. 380,596
In Germany January 12, 1940
8 Claims. (Cl. 62—116)

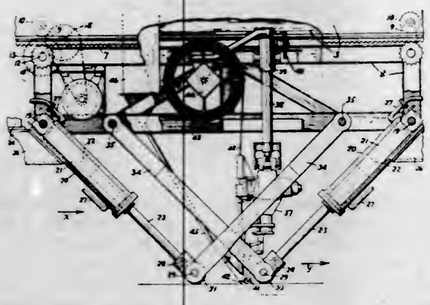
7. A cabinet refrigerator provided with a refrigerating apparatus of the compressor type,

having a refrigerant circulating system containing two separable refrigerants, one having a higher specific gravity and boiling point than the other the latter being adapted to float on the former, comprising a compressor, a condensing means for condensing said refrigerants to obtain a liquid mixture thereof, two evaporators, at least the first one of which is provided with a header, a conduit including a control means



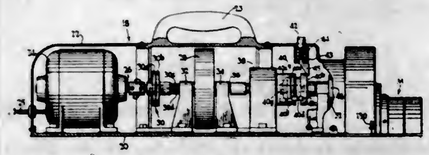
connecting said condensing means to the header of said first evaporator, an overflow conduit connecting the header of said first evaporator with the second of said evaporators, said header acting as a separating means for separating the said refrigerants and supplying the heavier one to the first evaporator and the lighter one to the second, the second of said evaporators being designed for making ice and encompassed within the first.

2,403,221
WELDING APPARATUS
Cecil D. Howard, Swarthmore, Pa., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,237
5 Claims. (Cl. 113—59)



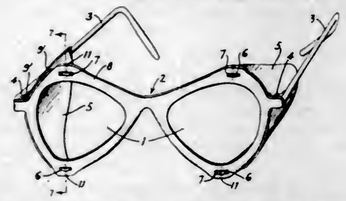
1. In welding apparatus for the butt-welding of plates, in combination, a support for the abutting edge portions of a pair of plates to be butt-welded, a trolley supported above said support, means for causing said trolley to travel longitudinally of the abutted edges of a pair of plates on said support, a pair of rollers positioned in spaced relation with their longitudinal axes at right angles to the direction of travel of said trolley, pivoted means connecting said rollers respectively with said trolley and means adapted to force said rollers respectively against the adjacent edge portions of a pair of abutted plates on said support in overlapped relation with respect to the abutted edges to clamp the adjacent edge portions of the plates to the support and a welding device supported from said trolley for operation between said rollers.

2,403,222
MACHINE FOR DRIVING CURVED SELF-RETROVERTING NAILS
John N. M. Howells, Kittery, Maine
Application April 19, 1943, Serial No. 483,594
24 Claims. (Cl. 1—46)



1. A driving tool for elongated nails having longitudinally curved shanks which extend over at least 90°, said tool comprising means for supporting a curved nail and means for applying to the head of the nail a driving force which changes its direction as the nail is driven in such manner that said force is always directed substantially perpendicular to the nail head.

2,403,223
EYESHIELD FOR GLASSES
Stefan Kaesz, Brooklyn, N. Y.
Application July 20, 1944, Serial No. 545,816
3 Claims. (Cl. 2—13)



1. The combination with a pair of eyeglasses, of an eye shield, the rim of said eyeglasses having an upper and lower circumferential slot, a part of said eye shield being inserted into said slot and said inserted part of said eye shield being pivoted within the said slot to the said rim of the eyeglasses.

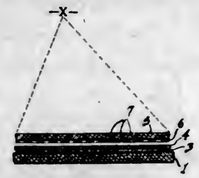
2,403,224
ELECTRODE STRUCTURE AND METHOD OF MANUFACTURE
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 23, 1942, Serial No. 463,065
7 Claims. (Cl. 49—79)



1. The method of manufacturing a foundation for an electrode structure comprising heating a vitreous insulating sheet bearing fine particles of a refractory material at a temperature sufficient to form bubbles in said sheet underlying the said particles of refractory material and removing said particles from said sheet.

2,403,225
METHOD OF MANUFACTURING ELECTRODE FOUNDATION STRUCTURES
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1943, Serial No. 485,048
7 Claims. (Cl. 49—79)

1. The method of manufacturing a foundation for an electrode structure comprising forming discrete separated adhesive areas on a glass foundation, distributing fine particles of silicon carbide over said adhesive areas and heating said

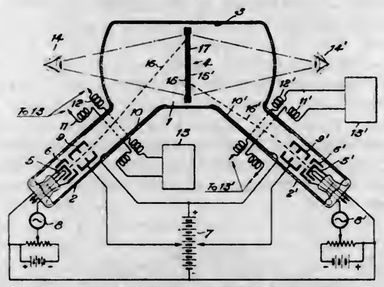


foundation to a temperature sufficient to soften said glass and form bubbles in said foundation underlying said adhesive areas by said gas.

2,403,226
MANUFACTURE OF SULPHURIC ESTER-SALTS OF LEUCO QUINONES
Hans Z. Lecher, Plainfield, and Mario Scalera, Somerville, N. J., and Charles T. Lester, Emory University, Ga., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 17, 1944, Serial No. 518,584
18 Claims. (Cl. 260—323)

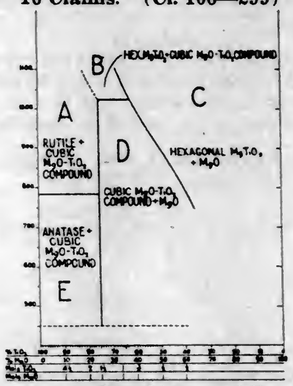
1. A process for the manufacture of water soluble sulphuric ester salts of leuco quinones which comprises reacting the leuco quinones with the sulphur trioxide compounds of tertiary amines in an alkaline aqueous medium, the said aqueous medium containing water as the major constituent thereof, the leuco quinones being dispersed in said aqueous medium, and said amines being tertiary amines having a dissociation constant of at least 1×10^{-7} at 25° C.

2,403,227
LUMINESCENT APPARATUS AND METHOD OF DEVELOPING LUMINESCENCE
Humboldt W. Leverenz, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1941, Serial No. 407,139
13 Claims. (Cl. 250—150)



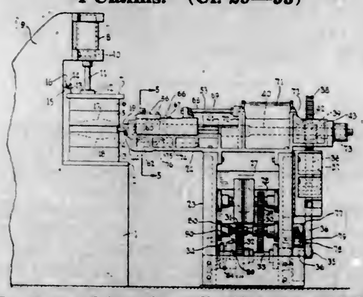
1. Apparatus for developing luminescent light comprising a luminescent target having phosphor material exposed on opposite sides thereof, means facing each side of said target to subject each of said sides to a beam of luminescence exciting energy, the said phosphor material on one side of said target having a spectral emission, when excited, of higher frequency than the said phosphor material on the other side of said target and means to scan said beams of exciting energy over similar paths on opposite sides of said target and at non-opposite points at any instant of time along said paths.

2,403,228
MAGNESIUM-TITANIUM-OXYGEN COMPOUNDS AND METHODS OF PREPARING THE SAME
Andrew T. McCord and Harold F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a company of Ohio
Application January 14, 1943, Serial No. 472,302
16 Claims. (Cl. 106—299)



1. The process of making a white pigmentary material having as an essential ingredient a magnesium-titanium-oxygen compound having the empirical formula $3TiO_2.2MgO$, characterized by possessing a crystalline structure which upon X-ray analysis produces a diffraction pattern typical of a crystalline compound of cubic symmetry and of sulvanite structure, said process comprising mixing together γ-titanic acid and a magnesium compound in the ratio of 1 mol of said magnesium compound calculated as MgO, to at least ⅓ mol and not to exceed 4.5 mols of γ-titanic acid calculated as TiO_2, and heating the mixture to a temperature between 450° C. and 1100° C., said magnesium compound being selected from the group consisting of magnesium compounds which will form magnesium oxide and those which will combine with titanium oxide at said temperature.

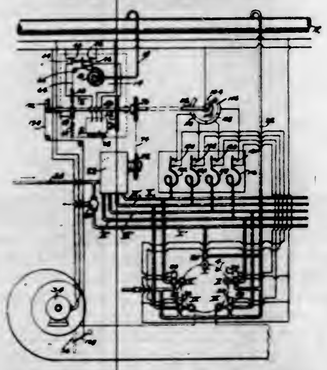
2,403,229
ELECTRIC RESISTANCE WELDING
Thomas E. Murray, Southampton, George H. Phelps, Floral Park, and George Frischmann, Queens Village, N. Y.; said Murray assignor to Yarrum, Incorporated, Brooklyn, N. Y., a corporation of New York, and said Phelps and Frischmann assignors to Murray Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York
Application February 12, 1942, Serial No. 430,524
4 Claims. (Cl. 29—33)



1. In a machine for effecting a weld by electric resistance welding, the combination compris-

ing means for effecting a weld including electrodes for engaging the pieces to be welded, and means for removing the burr extruded during the welding including a cutting tool, a movably mounted tool holder, means for moving the tool holder towards the electrodes, means for moving the tool holder transversely of said movement towards the electrodes, and means for effecting angular movement of the tool holder.

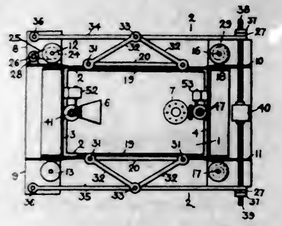
2,403,230
OIL BURNING EQUIPMENT AND CONTROLLING MECHANISM THEREFOR
Theodore Nagel, Brooklyn, and Harold D. Bliss, South Salem, N. Y.; said Bliss assignor to said Nagel
Application September 11, 1942, Serial No. 457,934
4 Claims. (Cl. 158—36)



3. An oil burning system for generating steam, comprising in combination a plurality of pressure atomizing nozzles of different capacities at a firing opening of a furnace, means for supplying oil and air to said nozzles, an electrically operated oil valve for each nozzle, switch mechanism for said valves, and a master control comprising a reversible electric motor under the direct control of the steam pressure in the system operable to operate said switch mechanism to initiate the operation of said nozzles in the ascending order of their capacities on increasing steam demand on one direction of rotation of said motor and to reverse this cycle on decreasing steam demand upon rotation of said motor in the opposite direction, said oil supplying means comprising an oil pressure regulator driven by said reversible motor and provided with a port for each nozzle, whereby the quantity of oil supplied to the system will vary in accordance with the nozzle in operation at any instant, said air supply means comprising a damper controlled by said motor whereby the air supplied to the system will vary in accordance with the capacity of the nozzle in operation.

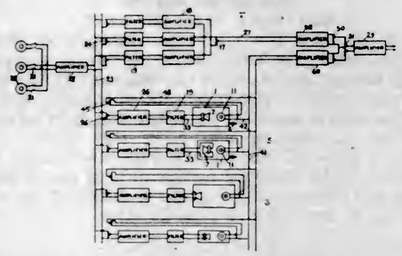
2,403,231
REVERBERATIONS MODULATOR
Maurice Parisier, New York, N. Y.
Application January 7, 1944, Serial No. 517,321
10 Claims. (Cl. 179—1)

1. A reverberation modulator comprising an enclosure having a wall made of a flexible material; means to support a loud speaker and a microphone in the enclosure; a remotely controlled motor at the enclosure; means to move said walls by the motor in a transverse direction for varying the volume of the enclosure, and means for passing said flexible wall in a plurality of generally transverse directions to bring the various portions



thereof from a gathered position to an operative position as desired.

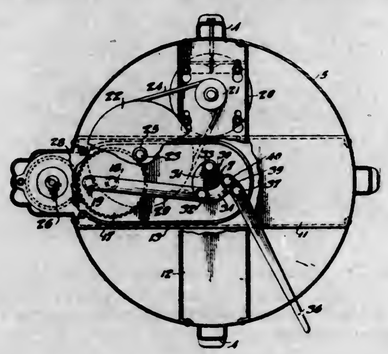
2,403,232
REVERBERATION MODULATOR FOR ECHO EFFECT
Maurice Parisier, New York, N. Y.
Application February 26, 1944, Serial No. 524,037
4 Claims. (Cl. 179—1)



1. Means to obtain echo effect in sound transmission by radio comprising means to separate electric impulses corresponding to the sounds to be transmitted into several channels of different frequencies; means to connect one channel directly to a receiver; means to individually regulate the impulses of the other channels; means to convert the impulses of the other channels into secondary sounds; reverberation chambers in the paths of the secondary sounds; means to convert the sounds of the second channel into secondary impulses; means to individually regulate the secondary impulses; means to combine the secondary impulses; means to regulate the combined secondary impulses; means to combine the secondary and primary impulses; and means to regulate the combined primary and secondary impulses.

2,403,233
WASHING MACHINE
Allen J. Patch, Ripon, Wis.
Application September 13, 1943, Serial No. 502,179
14 Claims. (Cl. 74—75)

1. A washing machine mechanism comprising an agitator shaft oscillatably mounted in upright relation, oscillating means connected with said agitator shaft, eccentric means spaced from said agitator shaft, a pitman rod connected at one end with said eccentric means and having its remaining end extending toward the agitator shaft, a pair of links pivotally connected with the extending end of said pitman and provided with bearings at their free ends spaced substantially an equal distance from the pivotal connection with the pitman, means pivotally connecting the free end of one of said links with the oscillating means of the agitator shaft, and means pivotally connecting and swingably mount-

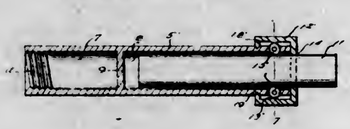


ing the bearing end of the second link whereby said bearing end can be moved into and from axial alignment with the pivotal connection between the first link and the oscillating means.

2,403,234
LUBRICANT
John A. Patterson, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 2, 1942, Serial No. 437,412
5 Claims. (Cl. 252—48.2)

1. A lubricant comprising a mineral lubricating oil and 0.01–5% by weight of an oil-soluble sulfurized derivative of cardanol.

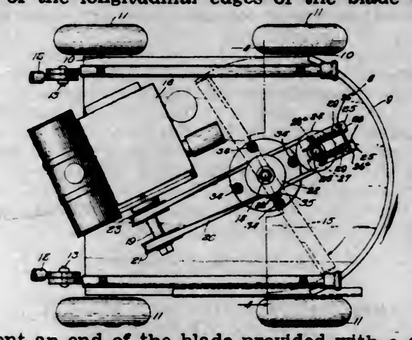
2,403,235
ADJUSTABLE ERASER
Frank C. Peterson, Randolph, Mass.
Application November 15, 1944, Serial No. 563,533
4 Claims. (Cl. 120—38)



4. An adjustable eraser, comprising a tube, an eraser longitudinally slidable in the tube, a cap rotatably secured on the upper end of the tube and having a central opening through which the eraser projects, rotatable feed rollers carried by the tube, and respectively engaging opposite sides of the eraser, and means gearing the feed rollers to the cap, whereby turning of the cap will cause rotation of the feed rollers for longitudinally adjusting the eraser.

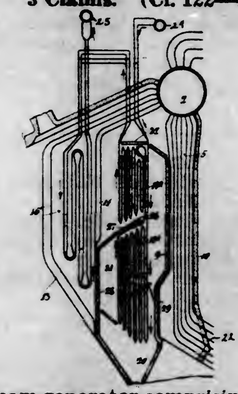
2,403,236
LAWN MOWER BLADE
William H. Phelps, Ralston, Nebr.
Application August 27, 1943, Serial No. 500,213
4 Claims. (Cl. 56—295)

1. A mower blade having a cutting portion at a terminal end edge portion thereof, disposed at an angle to the longitudinal axis of the blade, said cutting portion inclining relative to the planes in which the opposite faces of the blade extend, one of the longitudinal edges of the blade ad-



jacent an end of the blade provided with a cutting portion extending lengthwise of the blade.

2,403,237
SUPERHEATER BAFFLING
Elno M. Powell and Ward S. Patterson, Chappaqua, N. Y., assignors to Combustion Engineering Company, Inc., New York, N. Y.
Application October 20, 1943, Serial No. 506,922
3 Claims. (Cl. 122—480)



1. A steam generator comprising a water-cooled furnace defined by bottom, side and end walls and a roof with a gas outlet in one wall near the roof, an offtake, and means defining a gas pass intermediate and in communication with said furnace outlet and boiler offtake; a superheater including at least two sections of interconnected tubular elements arranged one above the other in said gas pass with the axes of the tubes of each section disposed substantially vertically; baffle means associated with said sections and mounted transversely with respect to the tubes thereof so as to cause flow of furnace gases across the tubes of the sections, the sections being so interconnected that fluid flowing therethrough advances from tube to tube in major part at least counter to the gas flow.

2,403,238
METHOD OF LUBRICATION AS APPLIED TO THE PROCESSING OF ALUMINUM AND ALUMINUM ALLOYS
Fred E. Rosenstiehl, Westfield, N. J., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 2, 1944, Serial No. 520,781
4 Claims. (Cl. 252—51.5)

1. A method of lubrication as applied to the

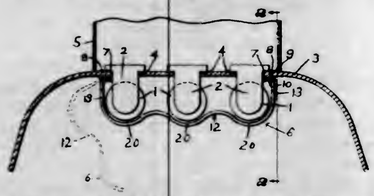
processing of aluminum and aluminum alloys in which the metal is subjected to a rolling operation, followed by annealing, which comprises supplying to the rolls and metal surfaces a hydrocarbon lubricating oil within the viscosity range of 35–100 Saybolt Universal seconds at 100° F., having incorporated therein a combination of 0.01–1.0% by weight of an oxidation product obtained by the partial oxidation of high molecular weight petroleum hydrocarbons, and 0.1–1.5% by weight of an N-substituted aromatic amine of the class consisting of phenyl naphthylamines, diaryl amines, and diamino diaryl alkanes possessing oxidation inhibiting properties.

2,403,239
TARGET ELECTRODE FOR ELECTRON DISCHARGE TUBES
Albert Rose, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1941, Serial No. 407,132
9 Claims. (Cl. 250—164)



1. A target electrode for an electron discharge device comprising a thin imperforate sheet of insulating material sealed to a foundation including a woven wire mesh screen, the said sheet being sealed only to the crimp promontories of said foundation.

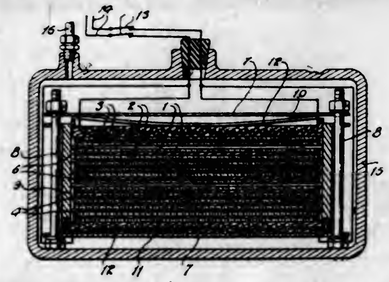
2,403,240
RETAINING GUARD FOR FLUORESCENT LAMPS
Kenneth A. Sawin, Auburndale, Mass., assignor to Wheeler Reflector Company, Boston, Mass., a corporation of Massachusetts
Application December 2, 1943, Serial No. 512,587
5 Claims. (Cl. 240—78)



1. The combination with a fluorescent lamp, a socket for supporting the lamp, and a reflector for the lamp having an opening through which the socket extends, of a guard-holding clip having a portion embracing the edge of the opening, said clip being retained in position by the socket, and a retaining guard situated beneath the lamp and supported by said clip.

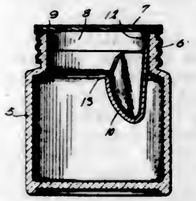
2,403,241
OZONE GENERATING CELL
Richard J. Schaefer, Detroit, Mich., assignor to Sanozone Corporation, Detroit, Mich., a corporation of Michigan
Application August 3, 1940, Serial No. 350,768
7 Claims. (Cl. 204—313)

1. An ozone generating cell comprising high and low voltage electrodes mounted in spaced relation with their faces opposed, a dielectric in the form of a glass plate for each of the opposed electrodes, means for spacing the said glass plates and electrodes, and a bituminous material for sealing each of the glass plates to its respective electrode approximately throughout the entire face of the electrode whereby air is excluded



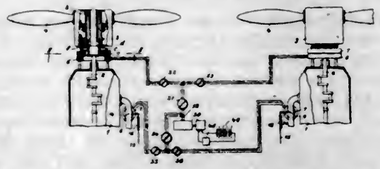
between the electrode and the face of the glass and the glass plates are free to expand and contract without breakage due to atmospheric temperature changes.

2,403,242
AUXILIARY RESERVOIR FOR INK BOTTLES
Everett C. Schweppe, Topeka, Kans.
Application February 28, 1945, Serial No. 580,178
2 Claims. (Cl. 120—69)



1. A device of the class described comprising an auxiliary reservoir and a split resilient band adapted for expansion into frictional engagement with the neck of a bottle for supporting the reservoir therein, said band having a part adapted to seat on the rim of said neck.

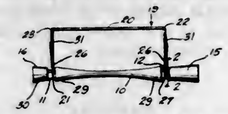
2,403,243
SYNCHRONIZING PROPELLER
Eduard Seppeler, Berlin-Neukolln, Germany; vested in the Alien Property Custodian
Application May 24, 1938, Serial No. 209,675
In Germany April 9, 1937
2 Claims. (Cl. 170—135.6)



1. In an apparatus for controlling the propellers of multiple propeller aircraft having a polyphase electric generator with means for driving said generator at constant speed and means for adjusting said speed of said generator and a pitch adjusting means for each propeller, a dynamoelectric machine for each propeller comprising relatively rotatable primary and secondary members, means for supplying said primary member with current from said generator to produce a rotating magnetic field therein, means for driving said secondary member with its corresponding propeller, mechanical means for applying the

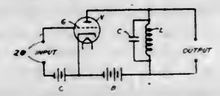
torque of said machine to operate said pitch adjusting means, engine controlling means for the engine of each propeller and means supplied by said generator for adjusting said engine controlling means in accordance with the speed of said generator.

2,403,244
COLD WAVE HAIR CURLER
Joseph M. Simons, St. Louis Park, Minn.
Application February 15, 1945, Serial No. 578,050
4 Claims. (Cl. 132—34)



2. A hair curler, comprising a spindle formed with annular grooves adjacent the ends thereof, a U-shaped clip having arms formed with loops seated in said grooves, the bottoms of said grooves being formed with a flat face, said loops providing an enlarged portion and a narrowed portion, the enlarged portion being of a size to permit free rotation of the spindle when the bottoms of the grooves are located therein, and the narrowed portion being so shaped and positioned as to be engaged by the flat face in the bottoms of the grooves to lock the spindle to the loops and the clip when the bottoms of the grooves are in the narrowed portions of the loops.

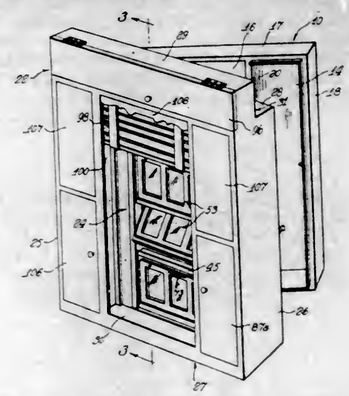
2,403,245
MODULATION SYSTEM
Frank H. Slaymaker, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application February 23, 1942, Serial No. 432,052
2 Claims. (Cl. 250—36)



1. In an arrangement for multiplying the frequency and for increasing the percentage of modulation of a modulated signal, a source of incompletely modulated frequency, an electron tube comprising a cathode, a grid, and an anode, an input circuit connected to said source and including said grid and said cathode, an output circuit including said cathode and said anode, said output circuit being tuned to a harmonic of the frequency of said modulated signal, and a utilization network coupled to said output circuit, said grid being biased more negatively than that just sufficient to prevent the flow of space current in said output circuit in the absence of an input signal but of such a value that in response to all of the momentary peak values of said modulated frequency space current is permitted to flow in the output circuit.

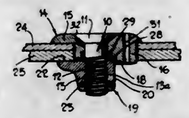
2,403,246
WINDOW CONSTRUCTION
Joseph Sperling, New York, N. Y.
Application March 19, 1945, Serial No. 583,553
6 Claims. (Cl. 160—107)

1. A window unit comprising a casing hinged to a fixed window frame on a vertical axis and having a window opening therethrough, said casing having vertical compartments on the sides thereof, a plurality of spaced pivoted sashes mounted in said casing window opening, means



for releasably locking said casing against said frame, and control means for swinging said sashes mounted in one of said compartments.

2,403,247
FASTENING DEVICE
George C. Sullivan, Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application December 19, 1942, Serial No. 469,517
7 Claims. (Cl. 24—221)

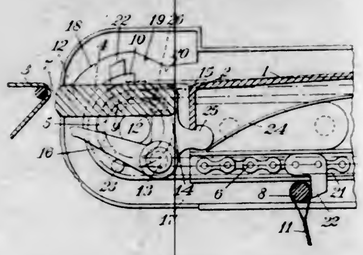


1. A fastening device comprising in combination, a threaded element, a rotating element adapted to be passed through an opening in a plate, and a sleeve adapted to be positioned within the opening, said sleeve having a shank and a bore to permit passage of said threaded element therethrough, said bore being eccentrically located relative to said shank, said rotating element having a threaded eccentric connection with said threaded element and being so arranged and constructed that upon advancing rotation of said threaded element, the rotating element will revolve substantially one hundred eighty degrees to a position to lock the assembly.

2,403,248
IRON HYDRATE AND THE MANUFACTURE AND USE OF THE SAME
Seldon P. Todd, Gloucester City, and Fredric C. Verduin, Audubon, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 10, 1941, Serial No. 387,874
13 Claims. (Cl. 23—200)

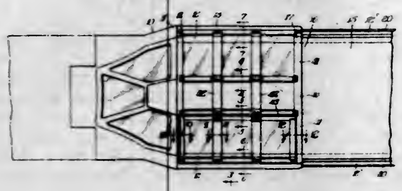
10. The process which comprises treating ilmenite with ammonium fluoride to form a reaction mass, extracting the resulting titanium compound from said mass with water, forming a slurry of the residual mass, aerating the slurry to convert the iron present from the ferrous to the ferric state, treating the slurry with ammonia to form hydrated ferric oxide and ammonium fluoride and using said ammonium fluoride for the treatment of further ilmenite.

2,403,249
CONVEYER MECHANISM
Allan Ashmead Tunley, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application May 9, 1944, Serial No. 534,775
In Great Britain May 10, 1943
8 Claims. (Cl. 198—20)



1. Conveyer mechanism comprising endless conveyers arranged in series and having adjacent fixed terminal points separated by a space, through which a plaque bar is adapted to pass, means for closing and opening said space, comprising a bridge piece mounted in said space for rotation about a stationary axis, the cross sectional shape of said bridge piece being such that in one position it presents a surface which bridges said space, while when rotated to another position sufficient opening is provided to permit said plaque bar to pass through said space, and means for successively rotating the bridge piece to said positions.

2,403,250
JETTISONING MEANS FOR THE SLIDING CANOPIES OF AIRPLANE COCKPITS
Christian M. Verhagen, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application December 11, 1942, Serial No. 468,654
2 Claims. (Cl. 244—121)

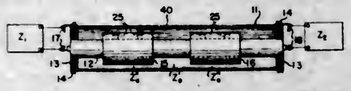


1. In a plane fuselage, the combination with an opening in the top of the fuselage, and an arched canopy normally covering said opening, of side rails at the lower edges of the sides of the canopy rigidly connected with the latter, carriages beneath the side rails provided with track rollers, tracks along the sides of the opening in the fuselage engaged by the rollers for permitting the carriages with the side rails and canopy to be slid back endwise of the tracks to uncover the opening, interengaging formations on the side rails and carriages normally holding the same hooked together, which formations disengage upon the side rails being shifted endwise with respect to the carriages a short distance, spring means tending to effect such endwise shifting movement, locking means normally rendering the spring means inoperative, and control means for releasing the locking means, whereby to jettison the canopy.

2,403,251
PRODUCTION OF FIBERS FROM PROTEINS
Frederick K. Watson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 4, 1942, Serial No. 453,606
1 Claim. (Cl. 106—146)

A spinning solution having a pH of about 5.8 and free from alkali solubilized protein, said spinning solution consisting essentially of a solution in about 76 parts of water of 16 parts of sulfuric acid casein and 8 parts of long chain surface active agent which consists of sodium dodecyl sulfate and which is the only solubilizing agent for the casein in said solution.

2,403,252
HIGH-FREQUENCY IMPEDANCE-MATCHING DEVICE
Harold A. Wheeler, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 16, 1944, Serial No. 563,713
11 Claims. (Cl. 178—44)



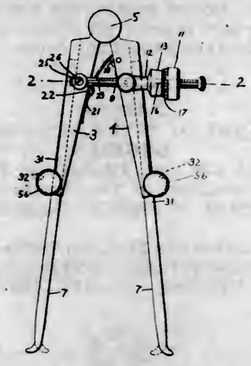
1. A high-frequency impedance-matching device adapted for connection between and for matching at a given frequency a pair of impedances having any values within a predetermined range of magnitude and phase comprising, a plural-conductor transmission line adapted to be connected between said impedances and having a predetermined electrical length less than one wave length at said given frequency and a predetermined characteristic impedance differing in one sense from the geometric mean of said impedances, and a plurality of members positioned between the conductors of said line and independently adjustably movable axially therealong, each of said adjustable members having at said given frequency a predetermined effective electrical length substantially less than one-half the length of said line and having its shape and material so selected as to cause the characteristic impedance of said line over the lengths of said members to differ from said geometric mean of said impedances in the opposite sense from the sense in which said line differs therefrom and by such magnitude as to enable said transmission line for an adjusted position of said members to match the resistance components and to cancel the reactance components of said pair of impedances.

2,403,253
PROCESS OF MAKING SHOES
Julius White, Jamaica, N. Y.
Application October 30, 1945, Serial No. 625,651
3 Claims. (Cl. 12—142)



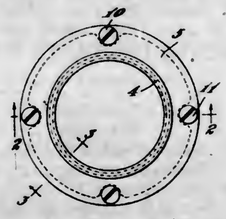
1. The process of making shoes which have a stiff outsole consisting in connecting two insoles of equal size and shape to one another in such a manner that all around said insoles a lip portion of each insole remains unconnected, securing said lip portion of one of said insoles to the inverted top part of the shoe, turning said top part with said insoles secured thereto inside out, and securing an outsole to the lip of that insole which is not directly secured to said top part, all substantially as herein described.

2,403,254
COMBINATION TOOL
Peter W. Yankun, Dorchester, Mass.
Application October 16, 1943, Serial No. 506,475
1 Claim. (Cl. 33—152)



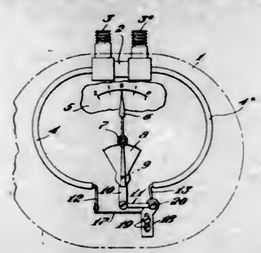
A combination instrument of the class described comprising a pair of straight legs pivotally connected together, one of said legs having a spring-receiving recess in its inner face, a coil spring occupying said recess and having a short end and a long end, the short end of the spring engaging the inner face of the leg having the recess and the long end of said spring engaging the inner face of the other leg at a point further removed from the pivotal connection of the legs than the location of the spring, a guiding projection carried by said other leg and having an opening through which the long end of the spring extends, and an interchangeable extension element removably secured to each leg.

2,403,255
SPINNING AND TWISTING RING
George F. Albrecht, Whitinsville, Mass.
Application November 4, 1944, Serial No. 561,921
6 Claims. (Cl. 57—140)



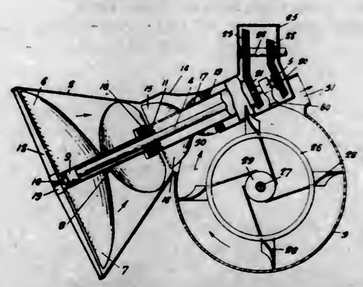
1. A spinning ring comprising two coaxial annuli and means for holding them in assembled relation, one of said annuli being shaped externally to constitute a guide for a traveler, the other of said annuli having a flat finished upper surface divided into inner and outer concentric portions by an annular trough-like recess defining an open-topped chamber constituting a reservoir for oil, the traveler-guiding annulus having an integral flange of uniform vertical thickness and having a flat under surface which rests upon the flat upper surface of the second annulus and forms a cover for the reservoir, said flange and the second annulus having registering openings for the reception of fastener elements, the traveler-guiding annulus being of a substance hard enough to form an acceptable guide for the traveler and comprising a multitude of capillary pores of visually inappreciable size operative to absorb oil from the reservoir and to deliver it to the traveler-contacting surface of the ring at a substantially uniform and very slow velocity, and fastener elements uniting said annuli.

2,403,256
DIFFERENTIAL PRESSURE GAUGE
Rudolf Beck, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application July 23, 1943, Serial No. 495,872
10 Claims. (Cl. 73—412)



2. A differential dial instrument comprising a pair of opposed Bourdon tubes whose free ends are arranged to move in opposite directions in response to increase in pressure, a bracket secured to the free end of each tube, one bracket being rigid and the other including inner and outer parts united by a flexible connection, the inner part being fixed to the tube, a substantially inextensible but flexible link uniting the outer end portions of the two brackets, a support rigidly united to the outer portion of the second bracket, a drive element slidably mounted on said support so as to move in a path substantially perpendicular to the length of the link, means for holding the drive element in adjusted position relatively to the support, a movable index, and means for transmitting motion from the drive element to the index.

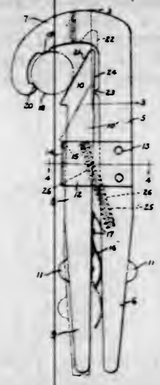
2,403,257
SNOW REMOVAL APPARATUS
John Edward Becker, Toronto, Ontario, Canada
Application October 10, 1944, Serial No. 558,103
12 Claims. (Cl. 37—43)



1. A snow removal apparatus of the character described having in combination a snow contacting and receiving screw conveyor with its axis of rotation disposed substantially longitudinally of the direction of movement of the apparatus and a snow ejection rotary impeller positioned at the rear end of the screw conveyor and into

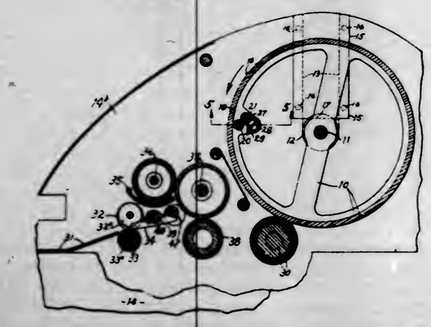
which the snow leaving the screw conveyor is fed and having its axis of rotation disposed substantially transversely of the direction of movement of the apparatus and wherein the axis of the screw conveyor is disposed substantially tangentially to the path of rotation of the impeller.

2,403,258
WRENCH
William H. Boyles, Columbiana, Ohio
Application March 9, 1944, Serial No. 525,662
4 Claims. (Cl. 81—78)



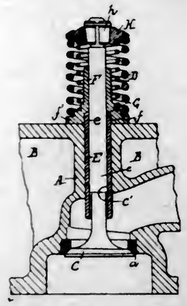
1. Wrench construction including a bar having a downwardly hooked jaw with spaced inner gripping portions at one end and a handle portion at its other end, a second bar extending along one edge of said first bar and having an inclined jaw at one end facing said hooked jaw and a handle portion at its other end, means slidably connecting said bars intermediate their ends for relative longitudinal movement, a projection on one of said bars for engaging the other of said bars adjacent its jaw end whereby movement of the handle portions of said bars towards each other causes movement of said inclined jaw toward said inner gripping portions of the hooked jaw, and means yieldingly urging the handle portions of said bars apart.

2,403,259
DUPLICATING MACHINE
Charles H. Bradt, Groton, N. Y., assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York
Application July 20, 1942, Serial No. 451,607
2 Claims. (Cl. 101—132)



1. A liquid process duplicating machine of the kind having a printing couple including a master-carrying drum and an opposed pressure roll which are rotative oppositely to each other to press a copy sheet to a flexible master carried by the drum, characterized in that the drum has a rigid cylindrical wall which is provided with two circumferentially spaced slots extending longitudinally of the drum for insertion of both end portions of a flexible master into the drum and is adapted to enclose said end portions of the master with the ends of master disconnected from the drum, said slots diverging from each other from the outer to the inner face of said wall with the leading one thereof making an acute angle and the trailing one thereof an obtuse angle with a plane radial to the axis of the drum.

2,403,260
VALVE GUIDE OF INTERNAL-COMBUSTION ENGINES
Hubert Noel Charles, Edgbaston, Birmingham, England, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England
Application October 11, 1944, Serial No. 558,191
In Great Britain September 6, 1943
9 Claims. (Cl. 123—188)



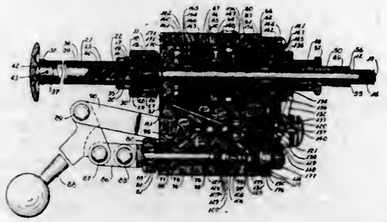
1. A valve guide of an internal combustion engine said valve guide comprising two separate parts, one of said parts being an inner part set in a fixed part of the engine and having the usual clearance between its inner surface and the stem of the valve with which it is associated, and the other of said parts being an outer part mounted in a manner to allow of its free lateral expansion and having a clearance less than that of the said inner part, an axial recess in the inner end of said outer part and an extension of said inner part entered into said recess.

2,403,261
FILTER
Llewellynn J. Clark, Grand Rapids, Mich., assignor to The Tanglefoot Company, Grand Rapids, Mich., a corporation of Michigan
Application April 1, 1944, Serial No. 529,063
2 Claims. (Cl. 183—75)



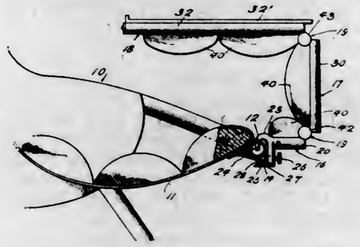
1. A self-supporting air filtering unit formed with a plurality of air passages through it having a tacky substance on the walls of said passages of such viscosity as to be retained as a coating on the walls for removing dirt from air flowing through said passages, said unit consisting of two fibrous outer sheets of material impervious to the tacky substance used to prevent the outer surfaces of the outer sheets from becoming sticky, an intermediate sheet of sinuous form between said outer sheets to separate them, said intermediate sheet being pervious to the tacky substance used, the inner surfaces of the outer sheets being coated with a tacky substance, said tacky substance constituting the sole means for bonding the intermediate sheet to the outer sheets to complete the unit, the said three sheets forming a filter unit defining flow passages for circulating air in which the exposed tacky substance serves to remove the dirt from the flow.

2,403,262
TOOL FOR COLLAPSING HOLLOW RIVETS
Russell S. Colley, Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 22, 1945, Serial No. 595,086
15 Claims. (Cl. 218—19)



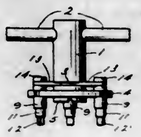
1. Apparatus for installing a tubular internally-threaded rivet, said apparatus comprising a rod having a threaded portion for engaging the threaded interior of the rivet, a hollow anvil through which said rod extends, means for rotating said rod to engage and disengage its threaded portion from the rivet, a body supporting said rod and said anvil, and hydraulic means entirely enclosed by said body for providing relative axial movement of said rod and said anvil for upsetting said rivet.

2,403,263
COMBINED LEG REST AND TABLE
Calhoun Collins, Bakersfield, Calif.
Application November 13, 1944, Serial No. 563,214
7 Claims. (Cl. 155—165)



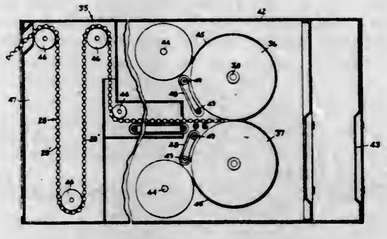
2. A chair having a bar at the front of its seat and formed with an upwardly open socket, said bar having a downwardly projecting lug near said socket, an attachment having a finger hooked into said socket, said attachment having a second downwardly projecting lug at the front side of the first mentioned lug, and a latch pivoted to the lower end of said second mentioned lug and swingable rearwardly into latching engagement with the lower end of said first lug.

2,403,264
JEWELER'S WRENCH
Louis A. Cormier, West Hempstead, N. Y.
Application March 15, 1944, Serial No. 526,560
2 Claims. (Cl. 81—6)



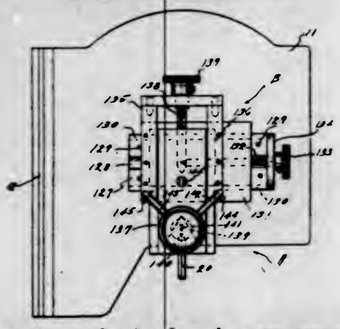
1. A wrench for gripping the edge of the back plate of a watch and unscrewing said plate comprising a stem provided at one end with a finger grip, a disc-like guide plate mounted on the other end of said stem concentrically thereof and for rotation of the stem relative thereto, a plurality of grappling studs carried by said plate to extend parallel with said stem and being grouped around the stem in equidistant angular relation, said studs being slidably mounted on said plate for movement radially of the plate into and from gripping relation to a watch back plate interposed therebetween, and operating connections between said stem and studs for sliding said studs into and from gripping relation upon rotation of the stem relative to the plate, the mounting for said studs comprising radial slots in said plate, and circumferential grooves in said studs interfitting with the side edges of said slots.

2,403,265
METHOD OF MAKING CELLULAR SYSTEMS
Burnie J. Craig, Los Angeles County, Calif.
Application December 28, 1943, Serial No. 516,133
1 Claim. (Cl. 18—56)



1. The method of making a strip of connected cellular members which comprises providing a source of raw material, the raw material being capable of being cured to form connected, gas impervious, flexible pockets, advancing raw material from the source, forming the raw material into a cellular system which comprises integrally connected, independent, spaced gas containing pockets with the gas in the pockets at a pressure above that of the atmosphere, and thereafter advancing the strip of raw material with the formed pockets therein from the forming region while it is subjected to a pressure which is above atmospheric and which is sufficiently high with respect to the gas pressure within the pockets to prevent blowing out of the pockets and curing the raw material which has been formed into a cellular system while subjected to a pressure which is above atmospheric and which is sufficiently high with respect to the gas pressure within the pockets to prevent blowing out of the pockets.

2,403,266
GRINDING WHEEL EDGE DRESSER
William F. Dalsen, Lennox, Mich., assignor to Louella May Dalsen, William Russel Dalsen, and Frederick Roy Dalsen, all of Detroit, Mich., as trustees
Original application December 18, 1941, Serial No. 423,517, now Patent No. 2,341,022, dated February 8, 1944. Divided and this application January 8, 1944, Serial No. 517,599
1 Claim. (Cl. 125—11)



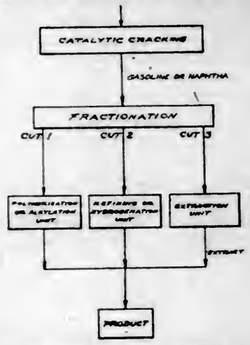
A grinding wheel edge dresser comprised of a housing into which a grinding wheel is adapted to extend transversely, a manually adjustable horizontal slide on said housing, a manual vertically adjustable diamound mounting support with a transverse opening therethrough carried on said slide, a bearing provided within said opening, a manually rotatable diamond mounting journaled within said bearing for arcuately dressing the outer periphery of a grinding wheel, an upright limit bar on said support spaced from and parallel to said mounting, relatively angular spaced arms extending transversely from said mounting, and adjustable screws on said spaced arms alternately engageable with said upright bar for adjustably limiting the dressing arc of said mounting, said diamond mounting being slidably insertable within said bearing permitting manual insertion and removal at will.

2,403,267
DIESEL FUELS
Garland H. B. Davis, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 24, 1943, Serial No. 499,821
7 Claims. (Cl. 44—70)

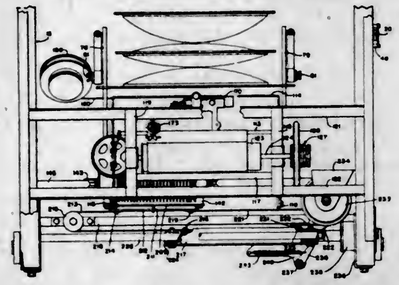
1. Fuel for a compression ignition engine comprising a hydrocarbon fuel base stock having a boiling range within the limits of about 300–800° F., and a small amount of a soluble polyacrylic acid ester dissolved therein.

2,403,268
FUELS FOR AIRCRAFT ENGINES
Garland H. B. Davis, Elizabeth, William J. Sweeney, Summit, and Walter A. Herbst, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 24, 1941, Serial No. 416,318
7 Claims. (Cl. 196—13)

7. The method of producing a fuel having satisfactory performance characteristics for supercharged aviation engines operated at maximum effective pressures above 200 lbs./sq. in., which comprises catalytically cracking petroleum cracking stock under suitably intense conditions to produce a highly unsaturated gasoline, segregating from said gasoline a fraction boiling below 100° F. mainly composed of 4 carbon atom olefins and paraffins, a second fraction boiling within the range of 100° F. to 140° F., and a third fraction boiling within the range of 200° F. to 300° F.; converting components in said fraction boiling below 100° F. to iso-paraffins having 7 to 8 carbon atoms per molecule, hydrogenating unsaturated hydrocarbons in said second fraction, extracting an aromatic concentrate containing above 75% by volume of aromatic hydrocarbons from said third fraction, and combining about 56% by volume of said iso-paraffins with about 19% by volume of said hydrogenated second fraction and about 25% by volume of said aromatic concentrate.



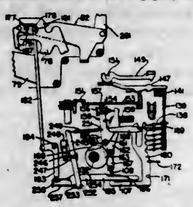
2,403,269
PROJECTOR FOR PAGE PRINTERS
William H. Eddy, Downers Grove, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1940, Serial No. 346,002
11 Claims. (Cl. 197—82)



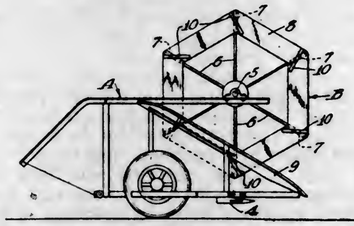
1. In a printing device, a carriage movable to form character spaces, means for advancing said carriage, means for returning said carriage, and gravity responsive means cooperatively associated with said second recited means to render said second recited means effective irrespective of change in physical position of the printing device with respect to gravity.

2,403,270
PROJECTOR FOR PAGE PRINTERS
William H. Eddy, Downers Grove, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application July 17, 1940, Serial No. 346,002. Divided and this application September 18, 1941, Serial No. 411,374
14 Claims. (Cl. 197—17)

10. In a printing apparatus, a printing bail, printing means articulated to said printing bail, power means for operating said printing bail, selective means effective to apply a predetermined restraint upon said power means, and further selective means effective to release said restraint.

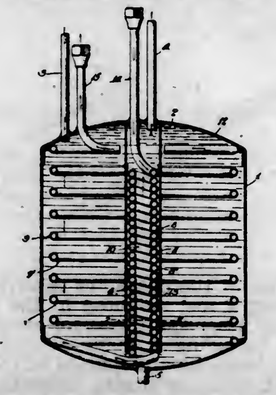


2,403,271
HARVESTER
John E. Erickson, East Grand Forks, Minn.
Application December 20, 1943, Serial No. 514,898
3 Claims. (Cl. 56—220)



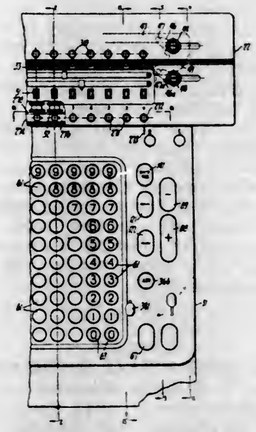
1. In a harvester and the like, a cutter, a reel mounted for rotation above said cutter, said reel having a relatively continuous smooth outer end portion constituting a crop fender, said harvester including a relatively stationary portion in closely spaced relation to said smooth crop fender, and stalk clearing means supported by said reel between said smooth crop fender and said stationary harvester portion.

2,403,272
WATER COOLING APPARATUS
Clyde P. Freer, Warren, Ohio, assignor to The Halsey W. Taylor Company, Warren, Ohio
Application December 28, 1944, Serial No. 570,200
3 Claims. (Cl. 62—141)



1. An apparatus for cooling liquid comprising a chambered body, a cooling coil providing a refrigerant circulating passage, said cooling coil comprising outer pre-cooling convolutions and inner concentric cooling convolutions submerged within said chambered body, a hollow member sleeved over said inner convolutions and providing a vertical inner chamber for the pre-cooled liquid, said inner convolutions being arranged in tightly coiled superposed relation and slightly spaced from the hollow member to separate the vertical inner chamber into out-flow passages on opposite sides of said inner convolutions, said hollow member being sealed at one end from and at its other end being in communication with the interior of said chambered body, means for conducting a supply of liquid to be cooled to said chambered body, and an outlet for the cooled liquid in communication with the upper end of said vertical inner chamber.

2,403,273
CALCULATING MACHINE
Carl M. Friden, Pleasanton, and Anthony B. Machado, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application January 27, 1940, Serial No. 315,986
8 Claims. (Cl. 235—63)



2. In a calculating machine having an ordinally shiftable accumulator, actuating means for said accumulator, means for selectively shifting said accumulator in either direction, a revolutions counter, a counter actuator, and resetting means for said accumulator and said counter; a manually operable key, means controlled by said key for effecting a combined operation of said shifting and resetting means to cause positioning of said accumulator in an end position and to cause resetting of said accumulator, means controlled by said key and brought into play at the end of the resetting operation for tabulating said accumulator by operation of said shifting means from said end position to any selected one of a plurality of ordinal positions, means controlled by said key and brought into operation with said accumulator in said selected ordinal position for entering a dividend value in said accumulator, and means also controlled by said key for preventing entry of a count in the counter during said dividend entering operation.

2,403,274
SHOULDER PAD
William R. Gershen, Larchmont, N. Y.
Application July 8, 1944, Serial No. 543,975
4 Claims. (Cl. 2—268)

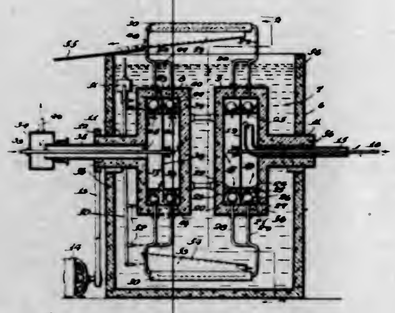
1. A shoulder pad, including a stiff inner case member and a fabric outer case member, said stiff inner case member having a pliable founda-

tion, said pliable foundation having a ply of fluffy material spread along its surface, and a stiff pocket portion stitched thereto, said pocket portion of the stiff inner case member being filled with a blank of plies of fluffy material, said blank being positioned in said pocket on a bias with respect to the normal position of the inner case member, said fabric outer casing consisting of top, bottom, and side wall members, said bottom wall member being distinguished in perimeter from said top wall member of said casing by an inverted dart, said dart being centrally placed in said bottom wall member, said side wall member having a rounded top edge and a straight bot-



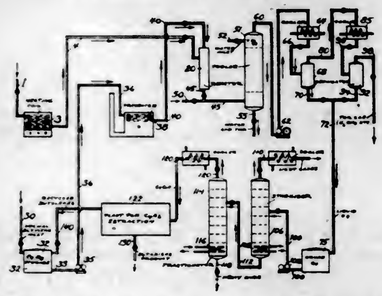
tom edge, the round upper edge of the said side wall member being adjacent to the top wall member of said outer casing, the straight edge of said side wall member being adjacent to the lower edge of said bottom wall member of said outer casing; all the edges of said wall members being stitched together, thereby forming an outer casing, said casing pliably bending the stiff inner foundation and forcing, thereby, said fluffy filled pocket of said stiff inner foundation upwardly towards the round edge of the front wall of said pad and drawing thereby to a convexed downward direction the front portion of the bottom side of the pad aforesaid.

2,403,275
REFRIGERATING APPARATUS
Thomas B. Gilliam, Washington, D. C.
Application December 21, 1943, Serial No. 515,129
13 Claims. (Cl. 62—2)



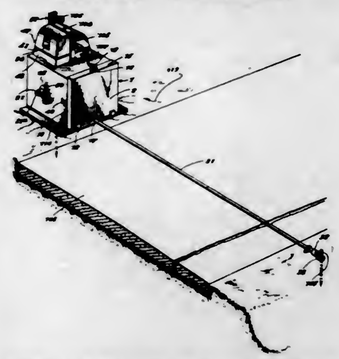
1. In an apparatus of the character described, a series of hollow molds each having a compartment in which a liquid is to be frozen, means for moving the molds into and out of the liquid, means for passing a refrigerant through the molds while the compartments thereof are submerged in the liquid, means for passing a heating fluid through the molds when they are in position above the liquid, and valve means movable with the molds and controlled by movement of the mold moving means, for controlling the refrigerant passing means and the heating fluid passing means.

2,403,276
CHEMICAL PROCESS
Arthur Donald Green, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 2, 1942, Serial No. 437,305
5 Claims. (Cl. 260—680)



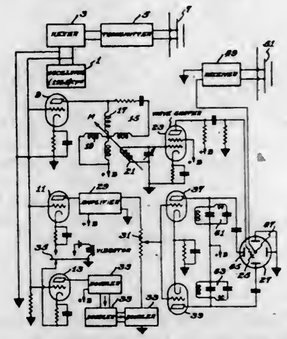
4. Process of dehydrogenating butylenes to produce butadiene, comprising preheating butylene to a temperature somewhat below active dehydrogenating temperature, superheating steam to a temperature exceeding the dehydrogenating temperature of butylene under the conditions of reaction, mixing the preheated butylene and the superheated steam in a reaction zone heated substantially only by the entering butylene and steam, passing the mixture of butylene and steam through said reaction zone in contact with a catalyst consisting essentially of a major proportion of magnesium oxide and minor proportions of iron oxide, copper oxide, and potassium oxide maintaining the butylene in the reaction zone for a short period only, during which butadiene is formed, and recovering the butadiene.

2,403,277
TRAFFIC COUNTER
Glen R. Hall, Uhrichsville, Ohio
Application November 17, 1941, Serial No. 419,473
4 Claims. (Cl. 60—62.5)



3. A device of the character described, including a casing, a reel mounted in the casing and including an inner shaft, a spool about the inner shaft and including a mandrel and a pair of heads, said heads having flanges surrounding the inner shaft, fastener means extending through the mandrel and the flanges and into the inner shaft for locking the spool to the shaft, plugs closing the shaft at its ends and formed with sockets open at their outer ends for receiving a handle for turning the reel, a flexible hose wound about the mandrel, an inlet tube having a portion extending through the head for connection with the inner end of the flexible hose, means closing the outer end of the flexible hose, and a flexible tube in the casing having one end detachably connected with the outer end of the inlet tube and its other end adapted for connection with mechanism to be actuated when fluid in the hose is subjected to pressure.

2,403,278
CATHODE-RAY SWEEP CIRCUIT
William D. Hershberger, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 25, 1941, Serial No. 399,608
8 Claims. (Cl. 315—24)

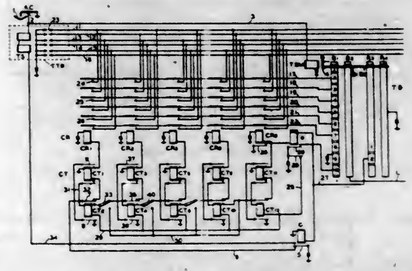


1. A sweep circuit generator including in combination a source of alternating current, a source of signals, a cathode ray tube including ray lateral deflecting and intensity controlling elements and a signal radial deflecting electrode, means for adjusting the phase of said alternating current, means for applying the thus phase-adjusted current to said intensity controlling element, means for splitting the phase of said source of alternating current, means for changing the frequency of said source, means for splitting the phase of said changed frequency current, means for selectively applying to said ray lateral deflecting elements said split-phase voltages of desired frequency to produce circular movements of said cathode ray, and means for applying said signals to said radial deflecting electrode to produce radial deflection of said circular cathode ray movements.

2,403,279
PRODUCTION OF HIGH OCTANE NUMBER FUELS
Amiot P. Hewlett, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 26, 1942, Serial No. 436,313
4 Claims. (Cl. 260—683.2)

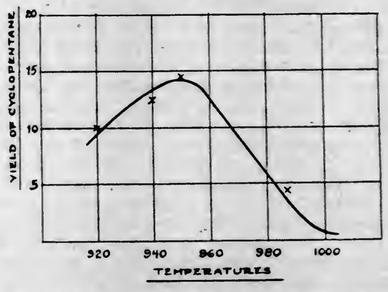
1. A process for the production of high antiknock fuel ingredients which comprises segregating a C_5 fraction containing predominantly amylenes boiling at about 30° C. to 31° C. from a naphtha product of low pressure vapor phase cracking, passing said segregated fraction into contact with bauxite at a temperature of about 800° F. until a substantial proportion of said amylenes are transformed to C_5 olefins boiling at about 36° C. to 39° C., then passing the thus treated fraction through clay for purification, and thereafter alkylating the transformed C_5 olefins with isobutane to secure a high quality alkylate.

2,403,280
SECRET TELEGRAPH SYSTEM
Raymond M. Hicks, Westfield, N. J., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application March 1, 1939, Serial No. 259,267
9 Claims. (Cl. 178—22)



1. In a system of the character disclosed, a source of permutation code signals respectively corresponding to the different characters of a message, means including a plurality of coding relays for converting the character signals into a plurality of different permutations, a counting mechanism for operating the coding relays in succession, an outgoing communication channel, distributor structure for transmitting the differently permuted character signals over said channel, and means included in said distributor structure for controlling the operation of said counting mechanism as the distributor operates.

2,403,281
MANUFACTURE OF CYCLOPENTANES
Ralph M. Hill and Howard G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 29, 1943, Serial No. 489,032
6 Claims. (Cl. 260—666)

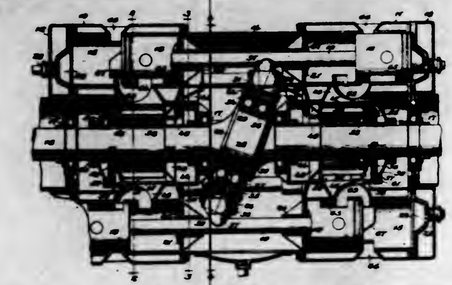


1. The dealkylation of alkylated cyclopentanes to produce cyclopentane which comprises subjecting the alkylated cyclopentane to thermal treatment in a reaction zone at temperatures of from about 900° to 980 F. and elevated pressures.

2,403,282
INTERNAL-COMBUSTION ENGINE
Frederick J. Holmes, Detroit, Mich.
Application June 12, 1941, Serial No. 397,800
4 Claims. (Cl. 123—58)

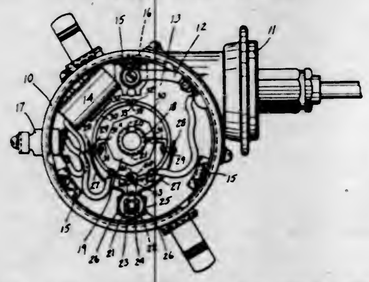
1. A hollow rotary valve having a side outlet port, means providing a substantially annular flange extending inwardly from one end of said valve and defining a central inlet opening in said end, and a hollow rotary blower in said valve coaxial therewith and of the type comprising an annular series of blades, said substantially an-

nular flange extending inwardly into covering relationship to the adjacent ends of said blower blades to direct into said blower interiorly of the



blades thereof fluid entering said inlet opening and to afford an obstruction against escape through said end of said valve of fluid forced outwardly by said blower.

2,403,283
FLOATING BREAKER SWITCH FOR IGNITION SYSTEMS
Howard L. Hull, Anderson, Ind.
Application April 24, 1943, Serial No. 484,331
11 Claims. (Cl. 200—30)

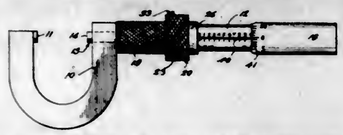


1. An ignition system breaker switch structure including in combination a rotatable actuating member, a pair of levers, one at each side of the member, and substantially encircling same, said members each having a contact at one end and a fulcrum bearing portion at the opposite end, fulcrum means interposed between the bearing portions, member engageable means carried by each of the levers between the ends thereof for lever movement, and spring means normally constraining said levers to contact engagement, the fulcrum bearing portions having corresponding inclinations and the fulcrum means including opposed inclined surfaces simultaneously engageable by said portions, the bearing portions and fulcrum means being slidable relative to each other.

2,403,284
PHOSPHATIDIC LUBRICANT AND METHOD OF MAKING
Joseph J. Jacobs, Brooklyn, N. Y., assignor to American Lecithin Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application September 3, 1943, Serial No. 501,173
7 Claims. (Cl. 252—51)

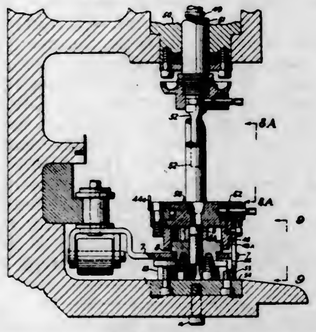
5. A lubricant comprising a mineral lubricating oil containing between about .02% and about 15% of a composition having the properties of inhibiting the oxidation of, and the formation of naphtha insolubles in, said oil and consisting of a vegetable phosphatide and from 10% to 90% of a mineral oil, said mixture having been heated at a temperature of from about 200° F. to about 375° F. for between 1 hour and 24 hours before being added to said lubricating oil.

2,403,285
SPEED MICROMETER
Peter J. Jackman, New York, N. Y.
Application September 13, 1944, Serial No. 553,881
6 Claims. (Cl. 33—164)



1. A micrometer of the class described having a frame, a barrel extending therefrom, a spindle journaled in the frame and disposed within the barrel, said barrel and spindle having interengaging threaded portions, an actuating device journaled on the barrel and including an internal gear, said spindle having a toothed part forming a gear, and gearing between the actuating device and the spindle and enmeshed with the internal gear and spindle gear.

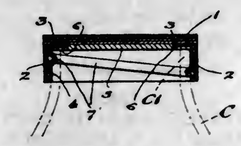
2,403,286
DETONATOR LOADING MACHINE
Charles R. Johnson, Glenn Mills, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 18, 1943, Serial No. 514,746
3 Claims. (Cl. 86—27)



2. In a machine of the type characterized by an endless chain conveyor, at least one carrier on said chain, rotatable loading means, and means for diverting said chain into a substantially circular path around said rotatable loading means; the elements comprising a work holder floating in said carrier, an alignment means for orientating said work holder with the loading means including means for supporting said work holder free from said carrier, and means for centering said work holder with respect to the loading means.

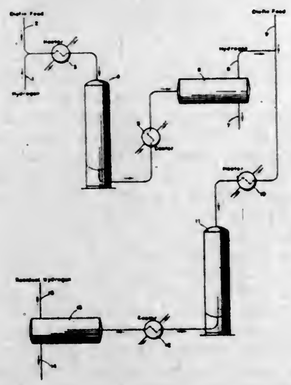
2,403,287
CLOSURE
William J. Keith, Brookline, Mass., assignor to Keith-Peabody, Inc., Brookline, Mass., a corporation of Massachusetts
Application August 2, 1942, Serial No. 453,437
3 Claims. (Cl. 215—43)

1. A closure for a container comprising a top disc formed of fibrous sheet material, a side wall structure extending about the peripheral portion of the top disc and secured thereto and having an inturned flange underlying the peripheral portion of the top disc, a liner disc extending over the inner face of the top disc beneath the flange, and a guide ring of non-metallic material secured within the side wall structure in peripheral bear-



ing relation with the outer portion thereof and having its upper edge portion bearing against the under side of the liner disc and pressing the same in clamped relation against the under side of the inturned flange, said guide ring having screw-thread engaging means for securing the closure on the container.

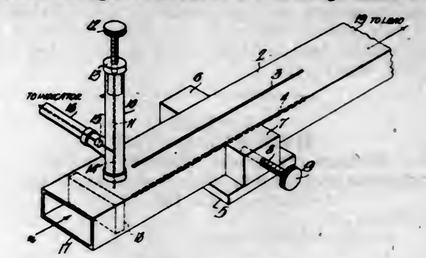
2,403,288
PROCESS FOR HYDROGENATING OLEFINS
Henry F. Kohler, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 25, 1943, Serial No. 503,773
3 Claims. (Cl. 260—683.6)



1. In the vapor phase hydrogenation of unsaturated bodies the steps of utilizing a plurality of reactors in series, introducing at least twice the amount of hydrogen consumed in the process into the first reactor and passing it through the reactors in succession, splitting the total feed of the unsaturated body between the several reactors and separating saturated product from the hydrogen between the successive reactors.

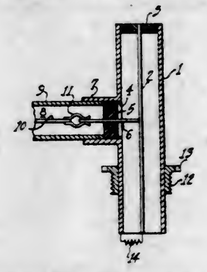
2,403,289
STANDING WAVE DETECTOR FOR CENTIMETER WAVES
Nathaniel I. Korman, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 26, 1942, Serial No. 470,297
12 Claims. (Cl. 178—44)

8. The method of detecting standing waves within an ultra-high frequency waveguide having a stationary wave probe comprising detecting said waves, and adjusting at least one dimension of said waveguide normal to the longitudinal axis



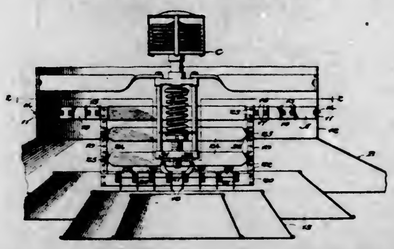
thereof to derive at said probe voltage maxima and minima in said waveguide.

2,403,290
ULTRA-HIGH FREQUENCY IGNITION DEVICE
Nathaniel I. Korman, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 2, 1943, Serial No. 501,011
8 Claims. (Cl. 123—145)



1. An ignition plug for an ultra-high frequency ignition system including a resistive element, means for applying ultra-high frequency currents to said element to raise the surface temperature of portions thereof during predetermined time intervals and means integral with said element for reducing the temperature of said surface portions thereof intermediate said predetermined intervals.

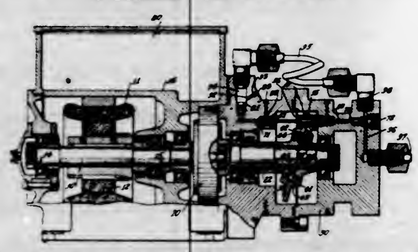
2,403,291
DAMPER
Franz J. Kurth, New York, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application December 8, 1942, Serial No. 468,278
18 Claims. (Cl. 98—40)



1. A damper comprising a central set of parallel spaced apart rotatably adjustable vanes disposed in a common plane, a plurality of other sets of parallel spaced apart rotatably adjustable vanes each disposed outwardly of said central set of vanes and in a plane parallel to and

spaced from the plane of said central set of vanes, and other sets of vanes disposed in planes at right angles to the planes of said central set and said other sets and extending between the margins of said central set and the inner ends of said other sets.

2,403,292
HYDRAULIC PUMP
William Messinger, Philadelphia, Pa.
Application May 9, 1945, Serial No. 592,831
4 Claims. (Cl. 103—173)



1. A power driven hydraulic pump comprising a power element, a shaft rotated thereby, a pump element, means whereby the shaft operates the pump element, a source of fluid supply, the pump element comprising a pump body having a plurality of cylinders therein arranged symmetrically around the axis of the shaft, the body having a peripheral cut forming a circumferential passage, the body having an inlet passage for leading fluid from the source to the circumferential passage, the body having drill holes leading from the cut to the individual cylinders, the cut being sealed by a peripheral insert.

2,403,293
ANTICORROSION COMPOSITION
John Joseph Miskel, Brooklyn, N. Y., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
Application June 5, 1943, Serial No. 489,784
10 Claims. (Cl. 106—14)

3. An anticorrosion coating composition for metals comprising chiefly mineral oil and a fatty oil with a minor proportion, in an amount to function as an anticorrosive agent, of a fatty amido-amine containing fatty chains of from 10–22 carbon atoms.

2,403,294
FRUIT PICKER
Glenn A. Morrell, Seattle, Wash.
Application February 12, 1944, Serial No. 522,172
4 Claims. (Cl. 56—331)



1. A fruit-picking implement comprising the combination of hand-shears providing paired relatively movable shearing blades, and having handgrips integral with the blades for actuating the latter in their shearing office; and a fruit-gathering sack, having an open top and a normally closed bottom, attached by its said open top directly to the outer edges of the blades, the frontal part of the sack and namely that part which extends across the blades from the tip of one to the tip of the other blade being cut away to produce a re-entrant mouth when viewed in front elevation, said re-entrant cut serving as an admission opening to enable fruit while still suspended by the stem to enter the sack in course of bringing the blades, by horizontal movement, into positions at opposite sides of the supporting stem.

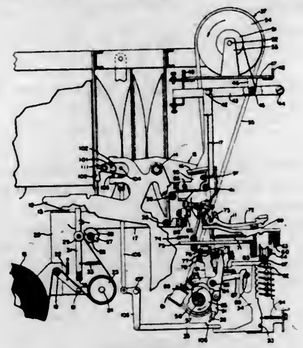
2,403,295
CLOTHESLINE SUPPORTING DEVICE
Alexander Nagy, Lindenhurst, N. Y.
Application June 8, 1944, Serial No. 539,300
3 Claims. (Cl. 211—119.07)



1. A clothes line supporting device for the opening, such as a window or doorway of a house having a frame defining said opening, in combination with an endless clothes line, two pulleys, each supporting one end of said endless line, an exterior support supporting one of said pulleys, said device including a claw supporting the other pulley, a bent plate having one web secured to the outside of a house and its other web extending outwardly therefrom clear of said frame, a second plate hingedly mounted on the outwardly extending web of said bent plate clear of said frame, an arm on said second plate, said claw being formed on the free end of said arm, a guide at the upper end of said second plate for the upper strand of said line, a second guide at the lower end of said second plate for the lower strand of said line, said guides being spaced from one another sufficiently to enable said arm with its pulley and a portion of the clothes line to move between portions of the two strands to and from a position on the outside of the house and from and to a position inside of the house and substantially in alinement with the hinged connection between said second plate and said outwardly extending web, and an anchor pivotally mounted on said bent plate and having a recess for receiving an edge of said second plate and for securing said second plate in position on the outside of the house.

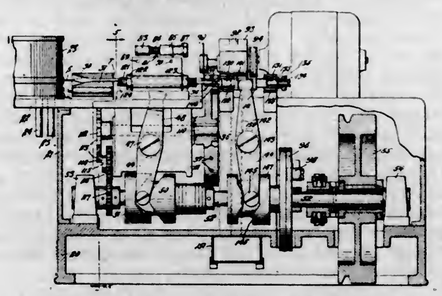
2,403,296
PRINTING TELEGRAPH APPARATUS
Donald P. Needham and Jacques Stussi, Chicago, Ill., assignors to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1940, Serial No. 345,906
2 Claims. (Cl. 197—149)

1. In combination, a printing device having a carriage movable to form character spaces, said carriage supporting a plurality of pivoted type bars movable in printing toward a common locus, guide rails disposed in the direction of movement of said carriage, a platen carrier slidably supported on said guide rails, a rotatable platen mounted on said carrier, said platen comprising an inverted conical frustum, said frustum tiltably positioned so that its peripheral surface adjacent said common locus is in a vertical plane, means for connecting said carriage with said



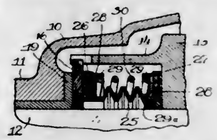
platen carrier, eccentric means for varying the spacial relationship between said peripheral surface and a predetermined vertical plane, and eccentric means operative at the point of articulation between said platen carrier and said carriage and effective as a consequence of the operation of said first mentioned eccentric means for effectuating a realignment between said common locus and said peripheral edge, whereby proper coincident printing relationship between said type bars and said platen is reestablished.

2,403,297
MACHINE FOR MAKING HOLLOW RIVETS
Charles R. Nichols, Jr., Jersey City, N. J., and Roswell H. Simpson, Staten Island, N. Y., assignors to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application January 4, 1945, Serial No. 571,336
12 Claims. (Cl. 10—11)



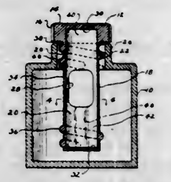
1. In a machine for making hollow rivets comprising means for forming a tube of fiber or plastic material, means for intermittently feeding said tube, a carrier, a plurality of cylindrical tube supports on said carrier disposed in a position to receive the fed tube, means for severing a predetermined length from the advance end of the tube after it has been fed into one of the tube supports on the carrier, means engageable with the severed tube for positioning and holding the tube for the heading operation, means for forming a head on the advance end of the tube so held, a source of power, and operative driving connections from said source of power to said carrier, said tube feeding means, said tube severing means, said tube positioning and holding means and said head forming means, said connections being synchronized to operate said several means in proper timed relation.

2,403,298
SEAL
Frank E. Payne, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application February 15, 1944, Serial No. 522,405
4 Claims. (Cl. 286—11)



4. A sealing apparatus for effecting a seal between relatively movable elements comprising a tubular sleeve of resilient compressible material said sleeve having spaced radially outwardly disposed flanges, an axially expansible central portion, and substantially cylindrical portions connecting the central portion to the flanges; resilient means surrounding the central portion and compressed between the flanges to tend to expand the central portion through the intermediary of the flanges and connecting portions, and rigid washers interposed between the resilient means and flanges, one of said washers having an axially turned inner edge which operates upon one cylindrical portion to exert a compressive force thereon, whereby to effect a seal between the cylindrical portion and one of said relatively movable elements.

2,403,299
CONTAINER
Rowland O. Pickin, Los Angeles, Calif.
Application May 25, 1944, Serial No. 537,299
4 Claims. (Cl. 222—361)



1. In a container, a container body, a stopper comprising a cap portion and a tube portion, the tube portion extending downwardly from the cap and being closed at both ends providing a chamber in the stopper, the tube being provided with an opening through the side allowing access to the chamber and forming a liquid holding well below the opening when the tube and container body are in normal vertical position, means including threads on the stopper and threads on the upper portion of the container body for the purpose of supporting the stopper and providing a stopper that may seal the contents of the container in the container and that may be disconnected from the container body and be raised and retained in elevated position with the opening in the tube exposed above the container body and then by further raising the stopper the portion of the tube from the opening downwardly may be

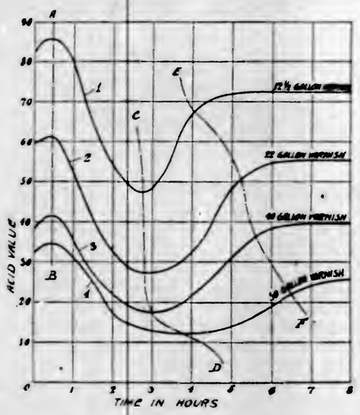
entirely exposed above the container body so that liquid on the outside of the tube may drain back into the container body as the stopper is removed entirely from the body of the container.

2,403,300

PREPARATION OF VARNISH COMPOSITIONS

Alfred E. Rheineck and Samuel B. Crecelius, Louisville, Ky., assignors to Devoe & Raynolds Company, Inc., a corporation of New York

Application July 28, 1942, Serial No. 452,660
15 Claims. (Cl. 260—104)



1. A process for making useful varnish bodies which comprises the steps of heating together castor oil and rosin at a temperature of between 290° C. and 325° C. and under conditions such that the rosin will react with the castor oil and continuing the heating for more than 3½ hours and until the acid number of the mass has risen substantially above its minimum value and until the rate of rise of the acid number is very slight, and subsequently esterifying with a polyhydric alcohol.

2,403,301

METHOD FOR MAKING ARTIFICIAL CARBON PIECES

André Richon, Sous-Geronde, Chippis, Valais, Switzerland

No Drawing. Application August 29, 1942, Serial No. 456,716
5 Claims. (Cl. 18—47.5)

1. A method for making artificial carbon pieces by casting, comprising subjecting a coherent, pasty mixture of carbon and binder to mechanical vibrations of a frequency of at least 6000 per minute and then baking the pieces.

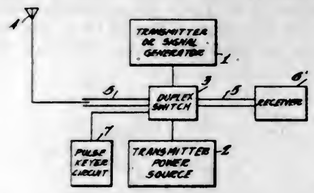
2,403,302

ULTRA HIGH FREQUENCY APPARATUS

Martin R. Richmond, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 25, 1943, Serial No. 477,167
9 Claims. (Cl. 250—13)

1. In a system of the type including a signal generator, a signal responsive device, a source of operating potential for said signal generator, and a signal source for said signal responsive device, the improvement comprising a duplex current discharge switching device comprising means providing a wave transmission path for coupling said signal source to said signal responsive device and means for selectively providing a current discharge transversely of said wave transmission path, and means for initiating a current discharge within said device for applying said operating potential to said signal generator and effectively isolating said signal responsive device from said signal source, and for alternately quenching said current discharge thus effectively isolating said signal generator from said potential source and effectively coupling said signal responsive device to said signal source.

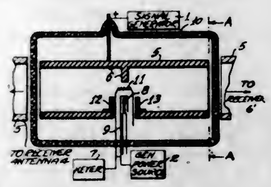


2,403,303

ULTRA HIGH FREQUENCY APPARATUS

Martin R. Richmond, Washington, D. C., assignor to Radio Corporation of America, a corporation of Delaware

Original application February 25, 1943, Serial No. 477,167. Divided and this application October 30, 1943, Serial No. 508,332
9 Claims. (Cl. 250—13)



1. In a system of the type including a radio transmitter, a radio receiver, a source of operating potential for said transmitter, and a signal source for said receiver, the improvement comprising a duplex ionizable switching device comprising means defining a wave transmission path between said receiver and said signal source and means selectively providing a current discharge path transversely of said wave transmission path, and means including and operable upon said device for applying said operating potential to said transmitter and effectively isolating said receiver from said signal source, and for alternately effectively isolating said transmitter from said potential source and effectively coupling said receiver to said signal source.

2,403,304

HIGH-TWIST ARTIFICIAL YARN PRODUCTION

Edwin Allin Robinson, Chatham, and Arthur De Castro, Newark, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application March 30, 1943, Serial No. 481,096
11 Claims. (Cl. 57—157)

1. Process of producing high-twist, nonsnarling artificial fiber yarn, which comprises distributing a hydrogenated fatty oil throughout an artificial fiber yarn; twisting the yarn to a degree which would normally result in excessive tendency to snarl; and setting the twist in the yarn by means of heat.

2,403,305

PRODUCTION OF HIGH-TWIST ARTIFICIAL YARNS

Laurence E. Rossiter, Kearny, and Ralph M. Beach, Florham Park, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application March 30, 1943, Serial No. 481,094
8 Claims. (Cl. 57—157)

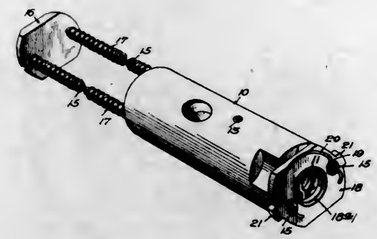
1. Process for producing pliable, nonsnarling high twist yarn from an artificial fiber yarn which comprises distributing throughout the yarn an aqueous emulsion of a hydrogenated oil; drying the yarn; twisting the yarn to a degree such that kinking would normally occur in the subsequent mechanical processing; and setting the twist in the yarn by means of heat.

2,403,306

FIREARM CONSTRUCTION

Frederick W. Sampson, Dayton, Ohio, and George J. Hyde, Brooklyn, N. Y., assignors to General Motors Corporation, a corporation of Delaware

Application May 1, 1944, Serial No. 533,569
5 Claims. (Cl. 42—3)



5. For use in a firearm a bolt mechanism comprising, a plurality of guide rods having locking means adjacent their front ends, a retaining plate attached to the rear ends of said rods, a bolt including means forming a plurality of longitudinally extending holes therein in which said rods are slidably received, driving springs surrounding said rods between said plate and said bolt, a locating member in engagement with the forward ends of said rods, and resilient means engaged with said locking means for releasably retaining said rods and said member in engagement.

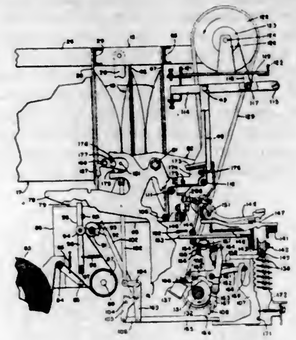
2,403,307

PROJECTOR FOR PAGE PRINTERS

Reginald G. Schuler, Highland Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application July 17, 1940, Serial No. 346,003. Divided and this application September 18, 1941, Serial No. 411,373
9 Claims. (Cl. 197—125)

3. In a printing apparatus, a printing bail, a movable type carriage slidably articulated to said printing bail, a platen rotatably carried by said carriage and movable therewith, and means effective upon each movement of said carriage to rotate said platen haphazardly.

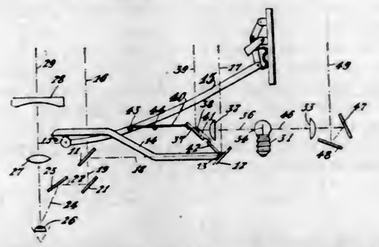


2,403,308

PHOTOGRAPH CAMERA CONSTRUCTION

Morris Schwartz and William Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., New York County, N. Y., a corporation of New York

Application July 15, 1943, Serial No. 494,872
4 Claims. (Cl. 95—44)



3. In a camera focusing device, a viewing range finder of the double object type and having a movable reflecting surface, means for moving said reflecting surface in accordance with the focusing movement of a camera lens, a projecting range finder for projecting a pair of lamp filament images also including a movable reflecting surface, separate members associated with each of said movable reflecting surfaces and movable therewith, said members engaging each other and means including said members to move the movable reflecting surface of said projecting range finder in synchronism with the movement of the movable reflecting surface of said viewing range finder whereby said two range finders are operated simultaneously.

2,403,309

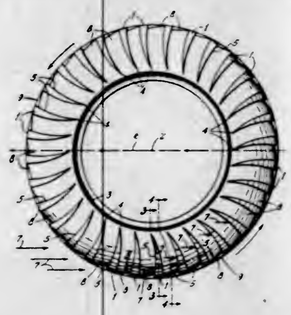
TIRE FOR AIRPLANE WHEELS

Russell J. Smith, Richmond Heights, Mo.

Application November 14, 1942, Serial No. 465,624
4 Claims. (Cl. 244—103)

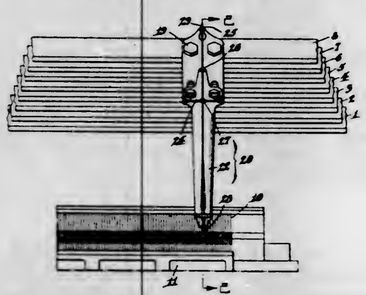
1. An airplane tire having an axis of rotation and comprising a tubular body open along its inner periphery and having an annular axis, a series of circumferentially spaced abrupt walls having portions near the outer periphery of said casing extending a substantial distance inwardly and radially toward said annular axis, each of said walls being of increasing width from near the inner periphery of said body at each side toward

said outer periphery and curving longitudinally toward the opposite side of said body and being located successively in series toward the front and below the plane of the horizontal diameter of the tire during rotation of said tire, said walls receiving air pressure to initiate and maintain rotation of the wheel on which said tire is mounted around said axis of rotation while said wheel is in position for landing of the airplane, said rotation being around said axis of rotation in the direction and at a speed approximating the speed of rotation of said wheel after said land-



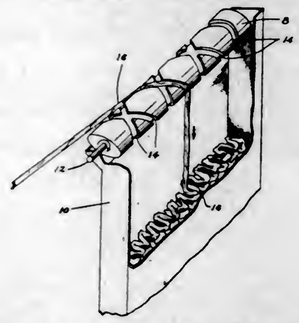
ing, circumferential bearing surfaces of increasing width from the ends of said abrupt walls toward the outer periphery of said casing and extending from one toward the next adjacent one of said pair of said walls, and rear walls inclining in planes inwardly from intersection with each of said surfaces to intersection with the inner edge of the next adjacent abrupt wall and preventing the formation of partial vacuums along said abrupt walls when said abrupt walls are above said horizontal diameter during rotation of said tire as aforesaid.

2,403,310
YARN CARRIER WITH A REPLACEABLE YARN GUIDE EYELET
Herman Staub, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application June 28, 1943, Serial No. 492,634
21 Claims. (Cl. 66—126)



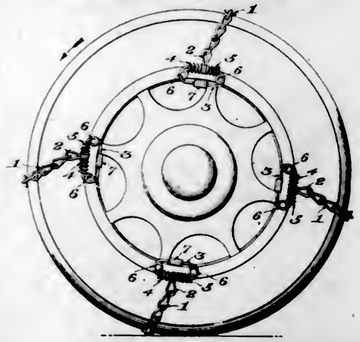
1. In a flat knitting machine, a group of reciprocating members having yarn carriers fixed thereto, each of said carriers including means including arms spaced and offset at their free ends and fixed to the carrier at their other ends for replaceably holding a yarn guide member at a point removed from its yarn delivery end and a yarn guide member releasably held in said means.

2,403,311
TEXTILE ROPE-STACKING APPARATUS
Sydney Steele, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 1, 1945, Serial No. 580,464
3 Claims. (Cl. 28—1)



1. A textile rope forwarding roller having reverse helical rope-forwarding grooves in which the bottom of the grooves, circumferentially of the roller, form an elliptical outline.

2,403,312
NONSKID CHAIN
James Sweeney, Detroit, Mich.
Application June 11, 1943, Serial No. 490,512
2 Claims. (Cl. 152—231)



1. In a non-skid chain, the combination of a series of transversely disposed non-skid chains, a series of elongated links to which the respective end links of each of the non-skid chains are engaged, coil springs mounted on each of the elongated links and disposed on opposite sides of each of the respective end links of the non-skid chain, whereby the ends of the coiled spring will engage the end links of the non-skid chains to take up tension exerted on said chain and allow the non-skid chain a limited degree of movement under the stress of traction to prevent its cutting into the tread, each of said elongated links having a loop formed at each end to increase the resilience of said links.

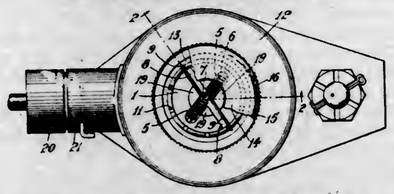
2,403,313
MANUFACTURE OF FOOTWEAR
Thomas T. Taylor, Boston, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
No Drawing. Application February 25, 1944, Serial No. 523,907
18 Claims. (Cl. 12—142)

1. A method of activating a waterproof, solvent-activatable cement applied to outsoles for attachment to shoe bottoms, which comprises treating such cemented outsole with a mixture of water vapor and solvent vapor to activate the cement.

2,403,314
HYDROCARBON ISOMERIZATION PROCESS
Carl O. Tongberg, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 15, 1941, Serial No. 406,937
14 Claims. (Cl. 260—683.5)

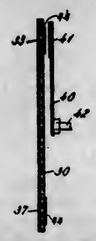
1. A process which comprises isomerizing at least one paraffin containing at least 4 carbon atoms per molecule under isomerization reaction conditions while in contact with a Friedel-Crafts type catalyst and in the presence of at least one alkyl sulfide.

2,403,315
SOLENOID
Henry William Trevaskis, Solihull, Birmingham, England, assignor to Dunlop Rubber Company Limited, London County, England, a company of Great Britain
Application January 6, 1945, Serial No. 571,687
In Great Britain April 4, 1944
15 Claims. (Cl. 175—341)



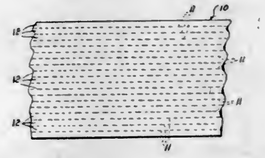
1. A solenoid comprising a casing and solenoid windings, a core movable axially in said solenoid and having a threaded axial recess in one end and transverse slots in the opposite end, a plunger threaded into said threaded recess, means to hold said plunger from rotation within said recess, a pin in one of the slots of said core and a pair of coil springs end to end on said pin and secured against rotation thereabout and having extensions in said slots at an angle to said pin and engaging said casing on diametrically opposite sides of said core.

2,403,316
RADIOACTIVE APPARATUS
Clarence W. Wallhausen, Morristown, N. J., assignor to United States Radium Corporation, New York, N. Y., a corporation of Delaware
Application July 14, 1943, Serial No. 494,616
5 Claims. (Cl. 250—72)



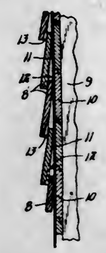
1. In a self-luminous indicator, the combination which comprises a translucent face member, a marker mounted on the back of the face member and formed of a non-radioactive but responsive phosphor capable of being activated by alpha rays, a pointer spaced from but movable over the rear surface of the face member in proximity to the marker, and a radioactive member of non-luminescent radio-active material which emits alpha rays, said radioactive member being mounted on the pointer in such a position that alpha rays therefrom strike the marker when the pointer passes over it.

2,403,317
ROPE
Richard F. Warren, Jr., Stratford, Conn.
Original application June 19, 1940, Serial No. 341,352. Divided and this application September 27, 1943, Serial No. 503,890
6 Claims. (Cl. 57—140)



6. A twisted strand of a normally crystalline vinylidene chloride polymer, wherein the crystals are oriented helically about the axis of the strand.

2,403,318
BUILDING SIDING
Chester A. Weseman, Austin, Minn.
Application January 7, 1942, Serial No. 425,911
2 Claims. (Cl. 20—5)

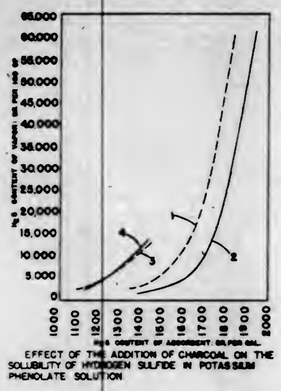


1. In an outer wall construction, a plurality of elongated rows of siding strips, said strips being arranged horizontally in rows overlapping each other to form elongated horizontal air pockets behind the rows, each of said strips being thicker at its bottom than at the top and having a plurality of spaced vertical slots undercut in the thicker bottom portions thereof between said pockets and the lower edges of said strips to a depth sufficient to insure free drainage through said slots without materially weakening said strips of siding.

2,403,319
REMOVAL OF H_2S FROM GASES
Milton Williams, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 20, 1942, Serial No. 447,767
4 Claims. (Cl. 23—2)

1. A method for removing an acidic constituent from a gas which comprises scrubbing the gas

with a liquid mixture containing a combination of a basic material and a slightly acidic material of the phenolic type of compound, said mixture being one the acidity of which tends to increase



EFFECT OF THE ADDITION OF CHARCOAL ON THE SOLUBILITY OF HYDROGEN SULFIDE IN POTASSIUM PHENOLATE SOLUTION

with temperature, and carrying in suspension an adsorbent having a preferential adsorbtivity for acidic substances in an amount insufficient to render the mixture unpumpable.

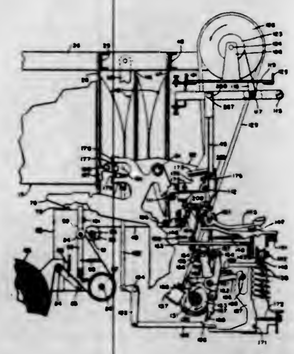
2,403,320

PROJECTOR FOR PAGE PRINTERS

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application July 17, 1940, Serial No. 346,004. Divided and this application September 18, 1941, Serial No. 411,375

5 Claims. (Cl. 197—1)



3. In a printing apparatus, paper supporting means, a printing bail, a movable type carriage slidably articulated to said printing bail, means for advancing said type carriage relative to said paper supporting means to form character spaces, a platen cooperably related to said type carriage, means for shifting said platen between two positions indicative of upper and lower case irrespective of the relative articulative positionment of said bail and said type carriage, and means for rendering said platen movable with said type carriage in character spacing movement independently of the case shifting movement of said platen shifting means.

2,403,321

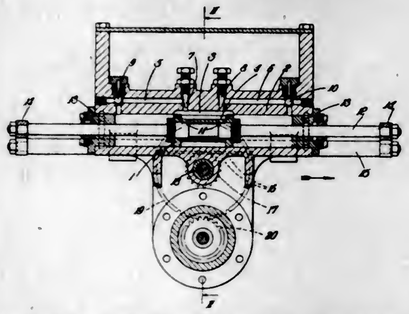
HYDRAULIC DASHPOT RETARDING DEVICE

Johann Hermann Abbink-Spaink, Jesmond, Newcastle-on-Tyne 2, and Arthur Spencer, Benwell, Newcastle-on-Tyne 5, England, assignors to Vickers-Armstrongs Limited, London, England, a company of Great Britain

Application March 19, 1942, Serial No. 435,351

In Great Britain March 26, 1941

4 Claims. (Cl. 188—97)



1. An hydraulic dash-pot retarding device comprising a cylinder containing the hydraulic damping fluid, a piston slidably mounted therein, means for effecting sliding movement of said piston, said cylinder being formed with a centrally arranged channel and said piston being formed with a further channel or passage in permanent communication with the channel in the cylinder during the whole of the sliding movement of said piston, two passages connecting said cylinder channel with said cylinder at the opposite ends thereof beyond the range of movement of said piston and said passages each containing a non-return valve permitting of the flow of oil from said cylinder only, and a needle valve or like controlling device for controlling the flow of oil through said passages, and said piston being formed to provide small passages permitting the slow passage of oil past said piston.

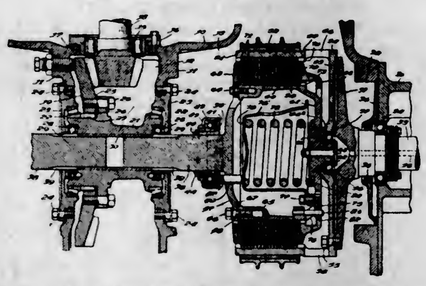
2,403,322

CLUTCH STRUCTURE FOR CRAWLER TRACTORS

Russel D. Acton, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application June 26, 1944, Serial No. 542,143

13 Claims. (Cl. 192—69)



1. A clutch device adapted to be positioned in a power transmitting construction having an internally splined driving member and a driven member formed with an attaching portion comprising, a splined shaft slidably fitted in said splined member, said shaft being formed with an attaching flange, a removable clutch unit including a plurality of clutch plates, an outer drum structure to which alternate clutch plates are drivingly connected and an inner drum structure to which alternate plates are drivingly connected, means for connecting the flange on the splined shaft to the inner drum structure, means for connecting the outer drum to the attaching portion on the driven member, releasable means within said drum structures for urging said plates together, and clutch operating means including a member supported around said shaft outside the drum structure and actuating means associated with said member and extending through the attaching flange on the splined shaft into operative relationship with said releasable means.

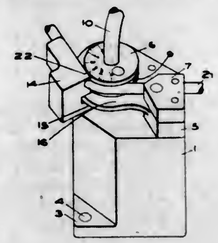
2,403,323

TUBE BENDING TOOL

Carroll E. Adreon, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application November 3, 1943, Serial No. 508,780

3 Claims. (Cl. 153—40)



1. A tube bending tool comprising a base, a handle pivoted in said base, a cam member fixed to said handle, a plate mounted on said base having an opening formed therein surrounding said cam, said opening formed to provide a follower for said cam, a curved die block concentric with the pivot of said handle having a groove around the periphery thereof, a retaining means to hold said tube in the initial position tangent to said die block, a forming block having a groove therein secured to said plate for movement therewith, said forming block spaced from said die block to allow the insertion of a tube to be bent whereby handle pivoting movement in one direction sequentially moves said plate and forming block radially of said die block to the tube engaging position and thereafter moves said die block bodily therewith to effect tube bending about the axis of said handle.

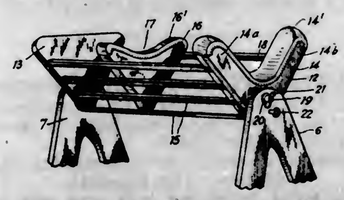
2,403,324

ADJUSTABLE SADDLE CLEANING HORSE

George C. Anderson, Great Neck, N. Y.

Application April 19, 1945, Serial No. 589,141

6 Claims. (Cl. 69—19)



1. A work stand for cleaning riding saddles, comprising a base, and a saddle supporting head pivotally mounted on the base and provided with an upper side having downwardly and oppositely inclined sides on which the saddle may be placed astride the head and provided with a nest on the opposite side to receive the upper side of the saddle when the head is reversed on the base.

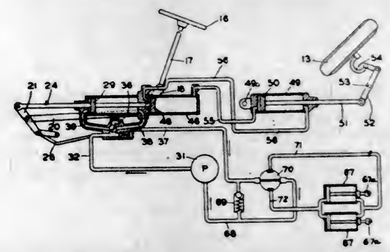
2,403,325

BOOSTER STEERING DEVICE

George E. Armington, South Euclid, Ohio, assignor to The Euclid Road Machinery Co., Euclid, Ohio, a corporation of Ohio

Continuation of application Serial No. 429,557, February 4, 1942. This application April 9, 1945, Serial No. 587,365

14 Claims. (Cl. 180—79.2)



9. Steering means for a vehicle having steerable wheel means, comprising a motor having cylinder and piston members one of which is movable, connecting means between said movable member and said steerable wheel means, a lever, an operative connection between said movable member and one end of said lever for moving said one end to follow movement of said movable member, an operator controlled vehicle steering member, an operative connection between said steering member and a point on said lever intermediate its ends, a lost motion mounting for holding the other end of said lever relative to said vehicle, means for supplying fluid to and away from said motor including a pump and a pressure pipe leading therefrom and two passageways leading respectively to opposite sides of said piston member and a discharge pipe and a valve for selectively connecting one of said passageways to said pressure pipe while connecting the other of said passageways to said discharge pipe, an operative connection from said other end of said lever to said valve to select the desired position of said valve, a fluid operated device connected with said discharge pipe, and said valve having a neutral position permitting flow from said pressure pipe directly to said discharge pipe, whereby said device may be operated in all positions of said valve.

2,403,326

BEARING LUBRICATION

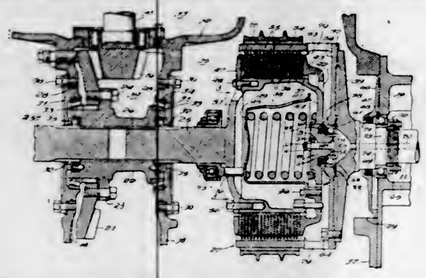
David B. Baker, Riverside, and William O. Bechman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application June 26, 1944, Serial No. 542,144

4 Claims. (Cl. 192—110)

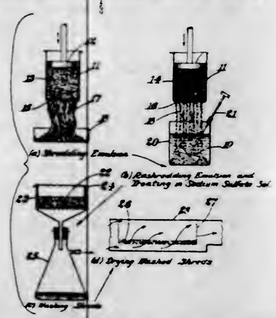
1. In a clutch and mounting therefor, a lubricant-free casing compartment, drive and driven dry clutch members in said casing and which are relatively rotatable when the clutch is released and having concentric hubs, a shaft journaled in said casing coaxially with said clutch members, said shaft having an end drivingly and supportingly connected with one of the clutch members and having a lubricant cavity in such end, means for maintaining a coaxial relative rotational rela-

tion between the other of said clutch members and said shaft comprising a bearing unit disposed between said hubs and including inner and outer races respectively thereon, said shaft end cavity being communicative with said bearing unit to



direct lubricant thereto, and an annular sealing device disposed between said hubs on the opposite side of the bearing unit from the shaft end cavity to cooperate with said hubs in confining the lubricant to said cavity and bearing unit.

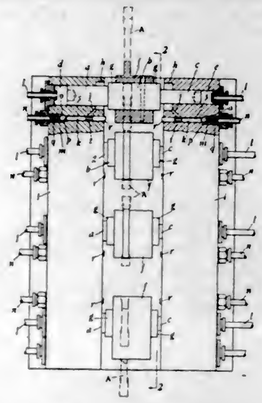
2,403,327
MANUFACTURE OF PHOTOGRAPHIC EMULSIONS
Thomas Thorne Baker, Pinner, England
Application May 31, 1945, Serial No. 596,918
In Great Britain May 30, 1944
10 Claims. (Cl. 95—7)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. A method of preparing a photographic gelatin emulsion in the form of apparently dry and freely-flowing granules which method comprises shredding a silver halide gelatin emulsion, treating the granules thus formed with a concentrated solution of sodium sulphate of dehydrating strength to harden the surfaces of the granules and thereafter drying the granules at a temperature of about 85° to 95° F. until the moisture content of said granules is reduced to 4 to 14%.

2,403,328
HYDRAULIC MECHANISM
Alfred James Banning, Coventry, England, assignor to A. C. Wickman Limited, Coventry, England
Application March 28, 1944, Serial No. 528,441
In Great Britain May 14, 1943
3 Claims. (Cl. 121—38)

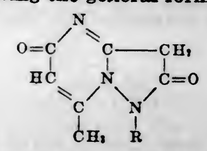
1. Hydraulic mechanism of the kind specified, comprising in combination a pair of principal plungers having different diameters and formed by opposite end portions of a compound plunger, a pair of principal cylinders in which the principal plungers are respectively slidable, a pair of secondary plungers formed by intermediate portions of the compound plunger, a pair of secondary cylinders at adjacent ends of the principal cylinders and adapted to receive the secondary plungers, valves for admitting pressure fluid to the secondary cylinders, and means responsive



to movements of the compound plunger for automatically opening the valves so that when the compound plunger approaches the end of its travel in either direction pressure fluid is admitted to the secondary cylinder at the leading end of the compound plunger for opposing the force exerted by the latter plunger.

2,403,329
1-SUBSTITUTED-2,5-DIKETO-7-METHYL-PYRIMIDOPYRAZOLES AS COUPLERS FOR COLOR PHOTOGRAPHY
Abraham Bavley, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 5, 1944, Serial No. 566,770
12 Claims. (Cl. 95—6)

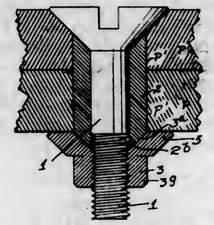
5. The method of producing a blue color photographic image in a gelatino silver-halide emulsion layer which comprises exposing the layer and developing it with an aromatic primary amino developing agent in the presence of a coupler compound having the general formula:



wherein R is selected from the class consisting of alkyl, aryl, aralkyl and heterocyclic groups.

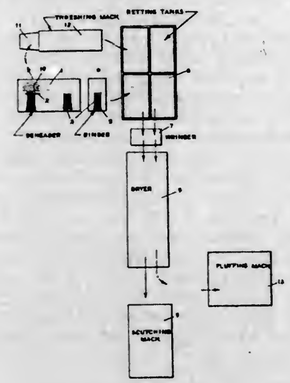
2,403,330
BLIND FASTENING BOLT AND NUT
Dudley C. Benton, San Diego, Calif., assignor and by decree of court of one-half to Marie E. Warren, San Diego, Calif.
Application January 22, 1944, Serial No. 519,260
3 Claims. (Cl. 85—2.4)

1. In a blind fastening bolt and nut of the class described, the combination of a bolt provided with a head at one end and threaded at its opposite end, a sleeve mounted on the body of said bolt with one end adapted to engage the head and its opposite end provided with a bevelled edge with its longer side toward said bolt, and a nut provided with an apron slotted to provide a plurality of sections with a bevelled edging adapted to conform to the bevelled edge on said sleeve and provided with threads at its inner end adapt-



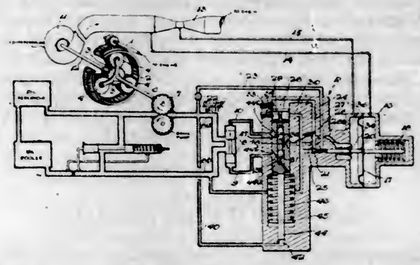
ed to fit the threads on said bolt, said nut provided with an external annular groove intermediate its ends adjacent to the inner end of said threads on said nut forming a weakened portion between said nut and said apron, said sleeve provided with a weakened portion close to its inner extremity.

2,403,331
METHOD OF PROCESSING VEGETABLE FIBERS
Charles D. Best, Portland, Oreg.
Application August 26, 1943, Serial No. 500,115
1 Claim. (Cl. 19—7)



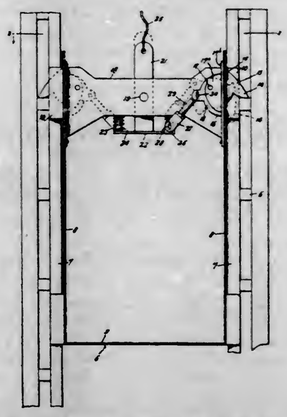
The method of obtaining an increased amount of spinnable fibers from plants, which method comprises completely severing the heads from the stalks, subjecting the stalks to the usual treatment for obtaining fiber therefrom including the passing of the stalks through a scutching machine, collecting the tow remaining from the stalks after the long fibers have been removed from the stalks in the scutching machine, subjecting the heads to a threshing operation to remove the seeds, retting the heads, drying the retted heads, passing the heads through a "fluffing machine," passing the tow remaining from the scutching of the stalks through the "fluffing machine" and combining the fibers recovered from the tow by the "fluffing machine" with the fibers obtained from the heads in the "fluffing machine."

2,403,332
REGULATOR
James E. Bevins, Hackensack, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 18, 1944, Serial No. 545,491
8 Claims. (Cl. 230—11)



1. A regulator for flow through a venturi from a blower which is driven with the torque governed by a hydraulic-pressure device, comprising a control valve for the hydraulic fluid, a servomotor positioning said valve, a relay for said servomotor, means including a pilot means for maintaining a governing pressure for said device proportional to the Venturi differential, a means including a spring and a piston having the piston movement proportional to the hydraulic pressure and hence to the driving torque, and a follow-up means connecting the relay with both the other means to correspondingly operate the relay upon a change in either said governing pressure or the position of said piston, said follow-up means including a reset means to gradually destroy the stated correspondence, whereby, upon a sudden change of the flow through the venturi, there is a sudden proportional change in the corresponding governing pressure and an actuation of the relay and of the reset means to produce a quick proportional change of the hydraulic pressure followed by a slow further change in the same direction.

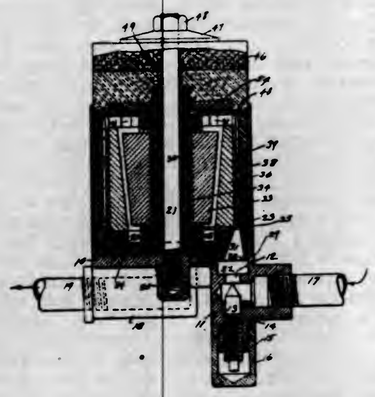
2,403,333
SAFETY MEANS FOR MINE CAGES
Edwin Bjerke, Wallace, Idaho
Application March 1, 1944, Serial No. 524,621
1 Claim. (Cl. 187—82)



In a mine, a shaft, provided with side horizontal timbers and central guide tracks, a cage having side walls with guides thereon running on said guide tracks, a hauling line for the cage, a

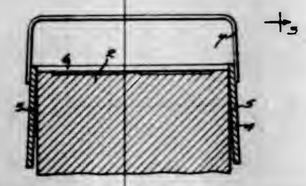
vertically slidable bar on the cage to which the line is attached, substantially circular plates on the cage adapted to be operated from normal position for engaging the side timbers when the hauling line breaks, said plates being rockably mounted on said side walls and staggered relatively laterally to clear said guide tracks, operating connections between said plates and the bar, and spring means for forcing the bar to plate operating position upon breaking of said line, said plates being provided with tangential teeth for hooking over said side timbers, said plates having diametrically opposite shoulders engaging opposite sides of said walls when said teeth are in position to engage said side timbers.

2,403,334
ELECTRIC WATER HEATER
Ralph A. Blanchard, Portland, Oreg.
Application May 20, 1944, Serial No. 536,502
1 Claim. (Cl. 219—40)



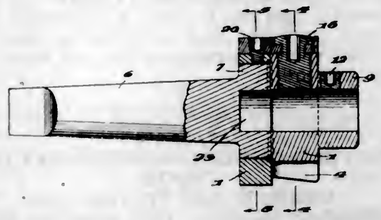
In a device of the class described, a combination of a cup of insulating material having an outer cylindrical electrode disposed therein, the interior of which is conical, a central conical electrode whose exterior is spaced from the interior of the outer electrode, means for adjusting the axial relationship of the two electrodes, a valved orifice in the bottom of said cup adapted to control the flow of water through the space around the outer electrode, and means for supplying current to said electrodes when water bridges the gap therebetween.

2,403,335
FIXTURE FOR SPREADING MORTAR ON GLASS BLOCKS
William Bortolotti, Detroit, Mich.
Application October 23, 1944, Serial No. 560,067
2 Claims. (Cl. 72—128)



1. A fixture for spreading mortar on glass blocks of uniform cross section including two substantially vertical plates of considerable length uniformly spaced from one another throughout their length, said plates tapering downwardly and outwardly with the upper portions thereof engaging the upper side edges of said blocks and the lower portions thereof being spaced from the sides of said blocks, and narrow cross members of uniform section throughout their length extending transversely between and secured at their extremities to said plates at points remote from the ends thereof, the undersides of said members being spaced a uniform distance beneath the upper edges of the plates and adapted to extend across the tops of said blocks to facilitate the spreading of a layer of stiff mortar of uniform thickness through the entire length and width of the blocks between said plates.

2,403,336
BORING CHUCK
Harry F. Brown, Chicago, Ill.
Application February 16, 1944, Serial No. 522,661
3 Claims. (Cl. 279—6)



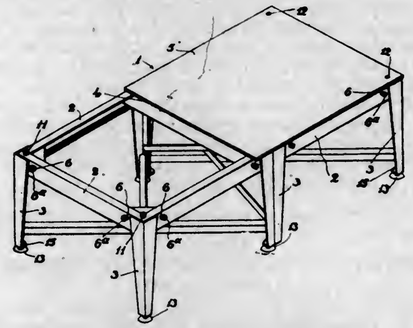
1. A boring chuck comprising a chuck body having a threaded opening extending axially thereinto for a substantial distance from one end thereof, said body having a dovetail slot with converging sidewalls transversely across the other end thereof, a chuck head having a dovetail end with diverging sidewalls adapted to fit into said dovetail slot, a shank having one end threaded to engage the threads of the opening of said body and traversable into said threads into pressure engagement with the dovetails of said head whereby said head is rigidified with said body, said body having a second threaded opening therethrough radially of said first opening, a plug in said second opening carrying a segment of threads for engagement with the threads of said shank and a set screw in said second opening traversable into pressure engagement with said plug to retain said shank against rotation with respect to said body.

2,403,337
ZINC BASE ALLOYS
Edward S. Bunn, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
No Drawing. Application March 13, 1943, Serial No. 479,113
7 Claims. (Cl. 75—178)

1. Workable alloys having, approximately, 0.1 to 7.5% copper and 0.01 to 0.75% phosphorus, the balance being substantially zinc, the percentage amount of phosphorus present not exceeding a value which varies approximately from 0.15 to 0.75% linearly and inversely with the percentage amount of copper present within the range of copper specified.

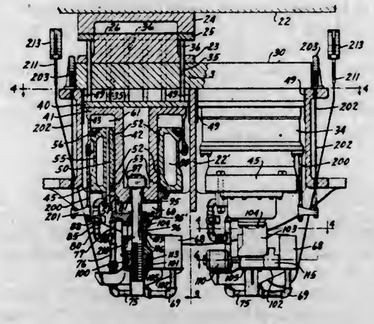
7. Alloys according to claim 1 containing approximately 0.005 to 0.5% vanadium substituted for an equal amount of the zinc.

2,403,338
MEANS FOR POSITIONING DRAWING-LAYOUT TABLES
Harold Guy Butler, Oxford, England, assignor to Harris and Sheldon Limited, Birmingham, and Joseph Sankey and Sons Limited, Bilston, Staffordshire, England
Application August 27, 1943, Serial No. 500,256
In Great Britain May 5, 1943
9 Claims. (Cl. 311—4)



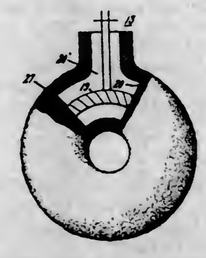
7. Means for use in the laying out of full scale drawings, comprising adjacent tables for the drawings, buffers carried by and projecting from the tables and having opposed faces adapted to contact with one another, means for adjusting each buffer relatively to the table by which it is carried, so that the distance between adjacent tables is varied when the buffers are in contact, and means for holding the tables together in their adjusted positions with the opposed faces of the adjusted buffers in contact.

2,403,339
PRESS
Arthur A. Byerlein, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a corporation of Delaware
Application March 27, 1943, Serial No. 480,765
25 Claims. (Cl. 113—46)



1. For use in a press of the character described, comprising relatively movable die carrying members and operating means for effecting work movement of the dies carried by said members, control means for the die operating means constructed for effecting control of the cycles of operation and for effecting predetermined points in the cycle of operation, and in combination, an air cushion mechanism including a cylinder member containing a pressure space and a cooperating piston member, means securing one of said cylinder and piston members in fixed relation with respect to one of said die carrying members, means supporting the other of said cylinder and piston members for movement in one direction with respect to said fixed member under pressure air admitted to said pressure space and for movement in the other direction with respect to said fixed member under pressure exerted thereon by the dies during working movement, adjustable means for limiting said relative movement of said cylinder and piston members under the influence of the pressure air to a travel slightly in excess of the travel caused by the working movement of the dies carried by said die carrying members, and means for adjusting said limiting means to accommodate dies constructed for different depths of draw.

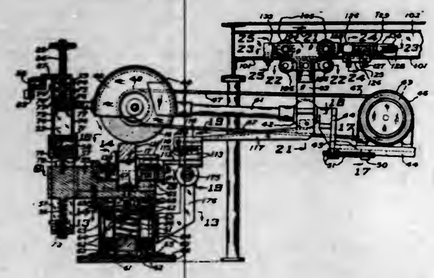
2,403,340
INSULATED CONDUCTING MEMBER AND METHOD OF APPLYING THE INSULATION
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 16, 1942, Serial No. 447,220
6 Claims. (Cl. 175—21)



1. An insulated coil winding for an electric apparatus including a conductor turn, screen means permeable to a fluid surrounding said conductor turn, means spacing at least a portion of said screen from said turn in order to form a fluid channel between said turn and said screen, a hydraulically applied insulating material surrounding and closely fitting said screen, said screen having a fluid passage connected to said channel through which a fluid may pass during application of said hydraulically applied insulating material, means surrounding said hydraulically applied insulation providing a second screen, integral protrusions extending from said second screen means to space said screen means from said insulation and provide a channel, and a hydraulically applied insulating material surrounding and closely fitting said second screen means.

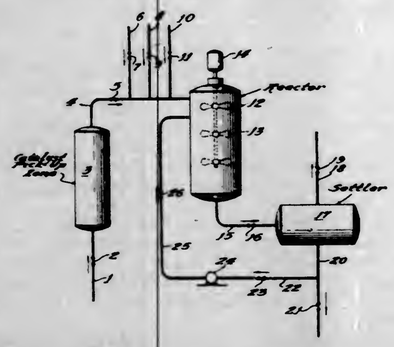
6. The method of hydraulically depositing tightly matted multi-layer fibrous insulation to any desired thickness on an electrical device including the steps of wrapping a channelled and perforated layer of insulation on top of and in contact with an under layer of insulation, submerging said device in a liquid bath having fibrous insulation held in suspension, causing said liquid to flow through said perforations and out of said channels at a predetermined initial rate so as to deposit said fibers on said perforated layer, stopping said flow substantially before the maximum thickness of deposit has been built up and while the outer surface of said deposit is relatively tightly matted, and repeating said steps until the desired total thickness of tightly matted insulation is deposited.

2,403,341
GRINDING MACHINE
Carl A. Carlson, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application June 5, 1944, Serial No. 538,816
19 Claims. (Cl. 51—33)



5. A machine for grinding the surface of a billet comprising mechanism for moving the billet endwise, a series of grinding wheels arranged with their axes substantially parallel with the direction of billet movement and offset relative to each other for grinding simultaneously a plurality of parallel arcuate paths, means for selectively removing the billet from the machine or alternatively returning it for another grinding operation and means for automatically turning the billet and presenting a new face for grinding during a second pass through the grinding zone.

2,403,342
CONVERSION OF HYDROCARBONS
Roland B. Day, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 11, 1944, Serial No. 521,929
2 Claims. (Cl. 260—683.4)



1. In the alkylation of isobutane with ethylene in a reaction zone in the presence of a Friedel-Crafts type catalyst, the improvement which comprises introducing to said zone simultaneously with the isobutane a normally liquid predominantly paraffinic straight-run gasoline fraction containing a normal paraffin of at least 5 carbon atoms to the molecule and therein isomerizing said normal paraffin with the aid of said catalyst during the alkylation of the isobutane, whereby to increase the antiknock value of the straight-run gasoline fraction and form a substantially saturated aviation fuel comprising isomerized and alkylated paraffines including 2,3-dimethylbutane.

2,403,343
COMPOSITION OF MATTER AND METHOD OF MAKING SAME
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Original application December 10, 1943, Serial No. 513,783. Divided and this application July 26, 1944, Serial No. 546,743
7 Claims. (Cl. 260—406)

1. A new composition of matter, consisting of an oxyalkylated, oxidized resultant of the acetalization reaction product of a member of the group consisting of ricinoleic acid, polyricinoleic acid and their esters, with a member of the group consisting of aldehydes and ketones; said oxidized product, prior to oxyalkylation, being a viscous, non-gelatinized product formed by oxidizing by an oxygen-containing gas, with the proviso that said oxyalkylated resultant have three to twenty ether linkages for each acyl radical.

2,403,344
COMPOSITION OF MATTER AND METHOD OF MAKING SAME
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Original application June 26, 1944, Serial No. 542,238. Divided and this application February 23, 1945, Serial No. 579,503
7 Claims. (Cl. 260—404)

1. A sub-resinous esterification product of the formula:

$$(OH)_n(Y_{y'}X_{x'})_q\begin{matrix}(COOH)_m\\(COOZ)_{m'}\end{matrix}$$

in which X is a polycarboxy acid fractional ester radical having (*a*) an unreacted carboxyl radical, and (*b*) a detergent-forming monocarboxy acid radical having at least 8 and not more than 32 carbon atoms, said detergent-forming acid radical being an integral part of a detergent-forming acid compound of the class consisting of acids, monohydric alcohol esters and polyhydric alcohol esters, and consisting of acids, monohydric alcohol esters and polyhydric alcohol esters; and *y'* is a number from 1 to 3, inclusive; and *x'* is a number from 1 to 5, inclusive; and *n*, *m* and *m'* are numerals from 0 to 40, inclusive; *q* is a number from 1 to 20, inclusive; Z is a hydrogen ion equivalent; Y is the radical of a basic esterified aminoalcohol of the formula:

$$\begin{matrix}R\\R_1\end{matrix}\!\!>\!N.R_1.OOCR_1$$

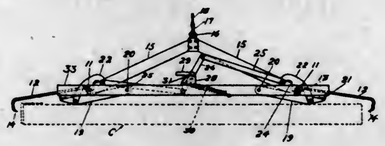
in which R is an ether radical having as an integral part thereof a hydrocarbon radical containing 8 carbon atoms and not more than 32 carbon atoms, and selected from the class consisting of alkyl radicals, alicyclic-alkyl radicals, and aralkyl radicals, in which a carbon atom chain is interrupted at least once by an oxygen atom and at least one such carbon atom attached to an ethereal oxygen atom is an acyclic carbon atom; R_1 is a member of the class of radicals consisting of (*a*) the same radical as R without the lower limitation of 8 carbon atoms; (*b*) non-aryl hydrocarbon radicals having 7 carbon atoms or less, and in turn, selected from the group consisting of alkyl radicals, aralkyl radicals and alicyclic radicals; (c) hydroxyalkyl radicals and hydroxyalkoxy radicals, in which the

alkylene radical contains less than 8 carbon atoms; R_2 is a divalent radical having less than 16 carbon atoms and not more than 3 ether linkages and being a member of the class consisting of alkylene radicals, hydroxyalkylene radicals, alkyleneoxy radicals, hydroxyalkyleneoxy radicals, polyglycol and hydroxypolyglycol radicals, in which any alkylene radicals present are selected from the group consisting of ethylene, propylene, butylene, and methylbutylene, and R_3CO is an acyl radical of a low molal monocarboxy acid having less than 8 carbon atoms; with the added proviso that at least one of the 3 radicals, R_1, R_2 and R_3 shall have present an alcoholic hydroxyl radical.

2,403,345
COMPOSITION OF MATTER AND METHOD OF MAKING SAME
Melvin De Groote, University City, Bernhard Keiser, Webster Groves, and Arthur F. Wirtel, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 1, 1943, Serial No. 493,160
7 Claims. (Cl. 260—406)

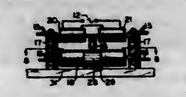
1. An ester derived by reaction between a reactive polybasic carboxy acid compound and a member of the class consisting of a drastically-oxidized, hydroxyacetylated ricinoleic acid compound, a hydroxyacetylated, drastically-oxidized ricinoleic acid compound, and a hydroxyacetylated, drastically-oxidized, dehydrated ricinoleic acid compound; the hydroxyacetylated reactants being free from any reactive alcoholic hydroxyl radical other than the hydroxyl radical of the hydroxyacetyl group.

2,403,346
GRAPPLE FOR HANDLING CROSSTIES AND THE LIKE
August M. Delters, Atlanta, Ga., assignor to Southern Wood Preserving Company, Atlanta, Ga., a corporation of Georgia
Application January 22, 1945, Serial No. 573,885
8 Claims. (Cl. 294—87)



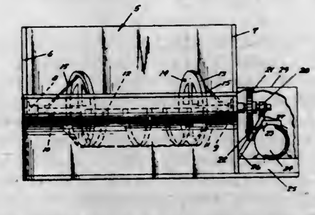
1. A grapple for handling crossties and the like, comprising in combination, a rectangular frame composed of rigidly connected structural elements having provision to be suspended from the hoisting cable of a crane; a pair of fixed transverse shafts near the opposite ends of the frame; a plurality of grab hooks having rigid arms individually and pivotally mounted on said shafts and adapted to engage the ends of a group of crossties; bail and latch means associated with each set of grab hooks to hold the hooks open; and manually operable means connected to release the latch members when the grapple is resting upon a group of crossties, so that the hooks are free to swing into grasping engagement therewith as the grapple is lifted, all of said hooks being swung open automatically when the crossties are deposited and the bail members engage the crossties as the frame descends upon the deposited load.

2,403,347
FLUX VALVE
Marlin C. Depp, Hempstead, and Caesar F. Fragola, Brooklyn, N. Y., assignors to Sperry Gyroscope Company, Inc., a corporation of New York
Application April 15, 1943, Serial No. 483,224
17 Claims. (Cl. 177—380)



1. In a device sensitive to an external magnetic field and adapted to supply signal voltage outputs dependent in magnitude upon the position thereof relative to the direction of said field, a core of permeable magnetic material, means for producing periodically varying exciting fluxes flowing in opposite directions for any instantaneous value thereof in said core, a pick-up winding associated with said core, and common means extending into closely spaced relation to the pick-up winding in a central zone substantially midway between its ends for controlling the linking of the exciting fluxes with said pick-up winding.

2,403,348
WASHING MACHINE
Adolph M. Dinetz, Detroit, Mich.
Application April 5, 1945, Serial No. 586,670
1 Claim. (Cl. 134—140)

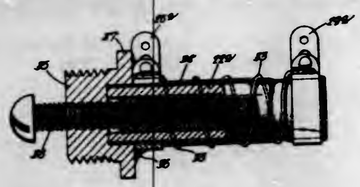


A barrel washing and tumbling machine comprising a tank having end walls, each provided with a shaft bearing, two alined stub shafts mounted in said bearings, a barrel cradle between the stub shafts, and each stub shaft having a connection securing it to the cradle, one of said connections being separable, one of the stub shafts projecting through one of the tank end walls, means secured to the tank for supporting a shaft bearing at a point remote from the last named tank-end, a bearing on said means, the last named stub shaft being journalled at spaced points in said last-named bearing and in the bearing of the adjacent tank end, a gear on said last-named stub shaft between its two bearings, a motor and a speed reducer drive means mounted on a platform below the stub shaft and gear, and a pinion on the drive means meshing with said gear.

2,403,349
COMBINATION COIL AND CONDENSER
Charles E. Dolberg, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 26, 1944, Serial No. 524,047
2 Claims. (Cl. 250—40)

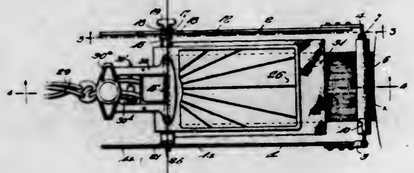
1. A combination coil and condenser unit, comprising a tubular insulating support, external and internal conductive elements on said support forming a condenser, a coil wound about the ex-

ternal conductive element and insulated therefrom, a hollow mounting member attached to one end of said support for mounting the unit on a



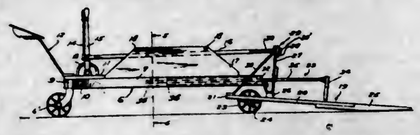
supporting medium, and a tuning element threadedly supported by said mounting member and extending within said insulating support for varying the inductance of said coil.

2,403,350
HAIR TREATING MACHINE
Bertha A. Dodd, Washington, D. C.
Application February 21, 1944, Serial No. 523,355
5 Claims. (Cl. 132—31)



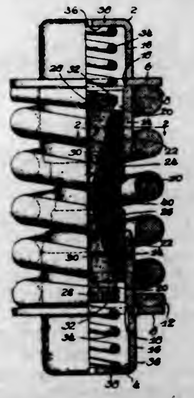
4. In a hair straightening device, the combination of a frame having side members, a clamp supported on the frame members at or near one end of the frame for clamping a strand of hair near its roots, a tensioning device supported on the frame members at or near the opposite ends of the frame and in spaced relation to the clamp for gripping and tensioning the free end of a strand extended thereto from the clamp, said tensioning device including a part rotatably engaging one of the side members of the frame, a clamp for holding the strand in engagement with the rotatable part, a non-rotatable part engaging the other side of the frame and resilient means coupling said parts and adapted to permit rotation of the first named part to tension the strand and to act thereon to hold the strand under elastic tension, and a heater comprising a pair of pivotally connected handles adapted to be disposed at the second-named end of the frame in juxtaposition to the tensioning device, a pair of cover members having heating means therein and attached at one end to the handles so as to be movable thereby by pivotal movement thereof to open and closed positions and whereby said cover members are adapted to be passed in open position over the tensioning device and disposed between the clamp and tensioning device and brought to lie in closed position with their inner faces in proximate relationship to opposite sides of the clamped strands, and spring means acting on the handles to normally hold the handles and cover members closed, the inner surfaces of the ends of said cover members attached to the handles being recessed to receive and partially enclose the tensioning device to allow the cover members to swing to open and closed positions without interference from the tensioning device and to allow said faces of the cover members in their closed position to come into close heating relationship to the clamped strand.

2,403,351
SWEEP RAKE
Oscar J. Durand, Hall, Mont.
Application May 5, 1944, Serial No. 534,326
1 Claim. (Cl. 56—396)



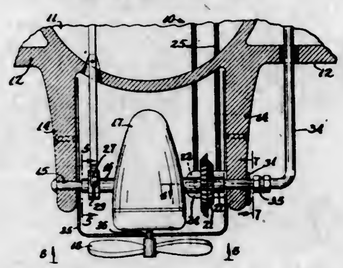
A sweep rake construction of the class described comprising a low slung horizontal frame with swivel supporting wheels at its rear end, an attendant operator's seat supported on said rear end, a segmental rack on said rear end portion, a lever pivotally associated therewith, a pawl mounted on said lever and coacting with said rack, and rake means on the front end of said frame, comprising an apron provided with ground engaging wheels adjacent its rear end on which the apron is fulcrumed, hinges connecting the front end of said frame with said apron in advance of the wheels of the apron, gathering teeth extending forwardly from said apron, an openwork, rack-like back-stop on said apron extending upwardly therefrom in front of said frame, push-pull link connections extending longitudinally of said frame which are connected at their rear ends to the intermediate portion of the lever and pivotally connected at their forward ends to the upper end of said back-stop, and an ejector extending across said apron in advance of the back-stop and having mounting means slidable longitudinally of the frame and yieldably held against rearward movement said last mentioned means including parallel, transversely spaced supporting arms, slidable in guides carried by the spaced sides of the frame, and resilient means at the rearward end of the arms and guides and abutting against portions of the frame.

2,403,352
SNUBBER
Carl A. Edstrom, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 5, 1943, Serial No. 481,839
15 Claims. (Cl. 105—197)



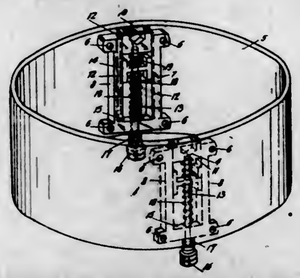
9. In a railway car truck, a support member having a box-section, a supported member having a box-section, aligned openings in adjacent chords of said members, and a friction device mounted between said members with opposite followers extending through said openings respectively, said followers housing wedging means, each of said followers having an annular flange affording a seat therefor against the adjacent chord, and a load-carrying spring seated at opposite ends against said flanges.

2,403,353
AUXILIARY PROPELLER FOR AIRPLANES
James Ernest, New York, N. Y.
Application December 11, 1943, Serial No. 513,836
1 Claim. (Cl. 244—56)



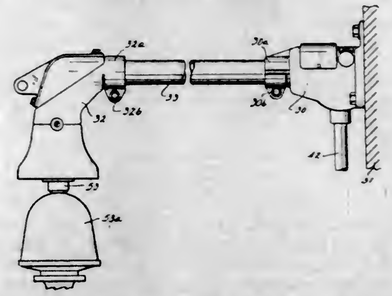
An airplane having a pair of spaced brackets rotatively supporting a first shaft upon which a motor driven propellor unit is turnably supported, means for turning said unit in one direction or the other at different rates of speed, comprising a tubular shaft slidably but non-rotatively mounted on said first mentioned shaft, a pair of spaced driven bevel gears positioned adjacent one end of said tubular shaft, a pair of opposed bevel gears of different diameters mounted on the end of said tubular shaft between said spaced driven bevel gears, means for moving said tubular shaft on said first mentioned shaft one way or the other for selectively engaging either of said opposed bevel gears with its respective gear of said pair of spaced driven bevel gears and means carried by said first mentioned shaft for supplying fuel to said motor.

2,403,354
SUSPENSION FOR COMPASSES AND SIMILAR INSTRUMENTS
Edward William Esdaile, Sydney, New South Wales, Australia
Application November 27, 1944, Serial No. 565,303
In Australia November 17, 1943
2 Claims. (Cl. 248—358)



1. Means for minimising the effect of vibration upon ships' compasses and other relatively delicate instruments comprising in combination a mounting means such as a gimbal and wherein the instrument is suspended, diametrically opposed frames fixed within a binnacle head, a cross head and a crosshead plate slidable in each frame, a spindle fixed at its upper end to the crosshead and passing freely through the crosshead plate and through a member of the frame, springs of dissimilar resiliency sleeved upon the spindle and a recoil spring sleeved upon the end of the spindle whereon are adjusting nuts.

2,403,355
LAMP SUPPORTING MEANS
Thayer B. Farrington, Cleveland Heights, Wade T. Keller, Cleveland, and Robert K. Farrington, Cleveland Heights, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application April 21, 1944, Serial No. 532,116
7 Claims. (Cl. 248—320)

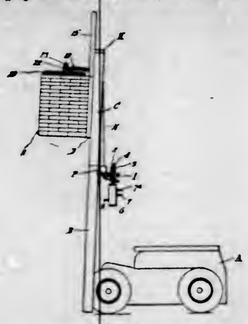


1. In combination, a hollow arm having one end connected to a fixed support, said arm extending laterally outwardly from said support, an electrical device detachably mounted at the other end of said arm, a housing at one of the ends of said arm, a pulley rotatably mounted within said housing, partition means dividing the hollow of said arm into two separate passageways extending longitudinally through said arm, shrouding means for said pulley substantially completely surrounding said pulley within said housing, there being two openings provided in said shrouding means for the passage of a flexible member around said pulley, one of said openings communicating with one of said passageways in said hollow arm, there being an opening in said housing outside of said shrouding means and communicating with the other of said passageways in said arm, a flexible tension member connected with said electrical device for raising and lowering the latter, said tension member passing through said one of said passageways in said arm and passing, by way of said two openings in said shrouding means, around said pulley and out of said housing, and electrical conductors for said device passing through the other passageway of said arm and through said housing outside of said shrouding means, whereby said conductors are protected against contact with said pulley and cable.

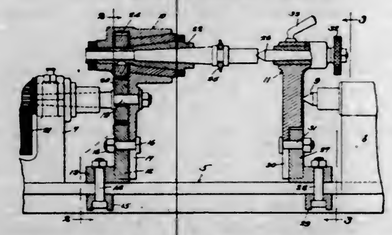
2,403,356
HYDRAULIC LIFT ASSEMBLY ATTACHMENTS
Wilbur C. Francis, Lee's Summit, Mo., assignor of one-fourth to Ray C. Burch, Kansas City, Mo., and one-half to United Brick & Tile Company, Kansas City, Mo., a corporation of Delaware
Application May 14, 1945, Serial No. 593,694
7 Claims. (Cl. 214—65.2)

1. The combination in a hydraulic system including a load apron having a pair of laterally-movable lift arms to be raised by liquid under pressure of such system and lowered by relaxation of such pressure respectively, of a branch line of

said system, an expansible hydraulic cylinder on said branch line, a valve on said branch line closed against liquid under pressure and open to back flow of fluid from said cylinder, a regulator valve on the main line of such system closed against the flow of fluid under pressure for effecting the raising of the load apron until the fluid attains a given pressure against said valve and the closed valve in the branch line, and then opens to supply fluid under pressure to effect upward straining pressure of the lift arms against a load to be lifted, a trigger, yielding means holding the trigger inoperative, means actuated by the upward pressure of the lift arms on the load, to overcome said yielding means and cause the trigger to open said branch line valve to effect the expansion of said cylinder by fluid under pressure passing through the opened branch line valve, and means actuated by the expansion of said cylinder to cause the lift arms to approach and apply opposite clamping pressure on the load.

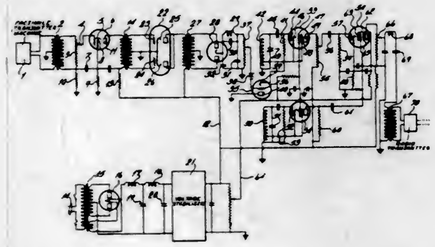


2,403,357
GEARED CENTER RAISER FOR LATHES
Robert E. Garrett, Nashville, Tenn.
Application September 29, 1944, Serial No. 556,409
1 Claim. (Cl. 82—28)



An adjustable head stock attachment for lathes, comprising a base including an upstanding bracket, a body portion having parallel flanges formed along the side edges thereof adapted to be positioned over the bracket, said flanges contacting opposite side edges of the bracket, said body portion having a slot extending inwardly from the lower end thereof, at a point between the flanges, a bolt extending through the slot and upstanding bracket, the head of the bolt being in contact with the body portion adjustably securing the body portion to the bracket, a tapered power shaft mounted in the body portion adapted to fit in the tapered socket of a head stock to rotate therewith, a gear secured to the latter shaft, a standard taper arbor mounter within the body portion, a gear in mesh with the first mentioned gear and being secured to the standard taper arbor, whereby rotary movement is imparted to the standard taper arbor from said power shaft.

2,403,358
FACSIMILE TRANSMITTING AND REPRODUCING SYSTEM, METHOD, AND APPARATUS
Anthony E. Gerhard, Los Angeles, Calif., and Everett G. Fraim, Hicksville, N. Y., assignors to Press Wireless, Inc., Chicago, Ill., a corporation of Delaware
Original application April 16, 1941, Serial No. 388,742. Divided and this application April 30, 1942, Serial No. 441,120
9 Claims. (Cl. 250—6)



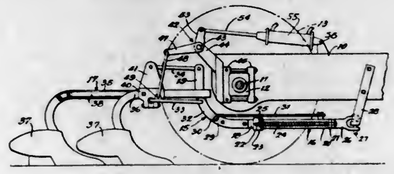
2. A frequency modulating system comprising, an oscillator tube for generating variable frequencies said tube having a D. C. control grid-cathode return circuit, a control tube for varying the frequency of said oscillator tube, said control tube having an anode, a cathode and a control grid, said anode being grounded, and a D. C. return path for the anode-cathode said control tube including the control grid to cathode D. C. return circuit of said oscillator tube, and means to vary the conductivity of said control tube by variable amplitude signals applied between the control grid and anode of said control tube to thereby produce frequency-modulated waves representing original signals to be transmitted.

2,403,359
SCREW
Alfred Gerhold, Westcliff-on-Sea, England
Application October 5, 1944, Serial No. 557,336
In Great Britain November 5, 1943
3 Claims. (Cl. 85—47)



1. A screw including a sharp-pointed nose having a single straight groove of arcuate section which is obliquely inclined in relation to the screw shank, said groove being disposed to form said nose with a substantially radial and undercut cutting face the undercut of which affords a rake to a cutting edge of said face, the said raked cutting edge extending to the point of the nose and acting to cut away material when driving in the screw by rotation.

2,403,360
AGRICULTURAL IMPLEMENT
William S. Graham, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 15, 1944, Serial No. 535,637
5 Claims. (Cl. 97—47)



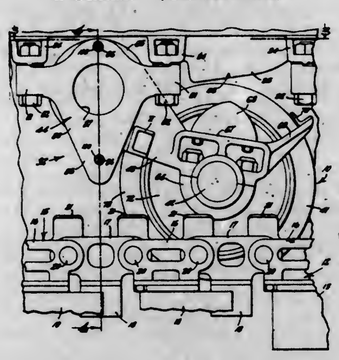
1. In an agricultural implement, a supporting structure, an elongated tool-carrying member pivoted at one end on the supporting structure for vertical movement relative thereto, said member comprising separate forward and rearward sections, vertically spaced generally parallel links connecting said sections, and stop means limiting relative movement of said sections in one direction.

2,403,361
CURTAIN OR DRAPERY TIEBACK
John Hagen, Overland, Mo.
Application April 24, 1944, Serial No. 532,461
7 Claims. (Cl. 160—349)



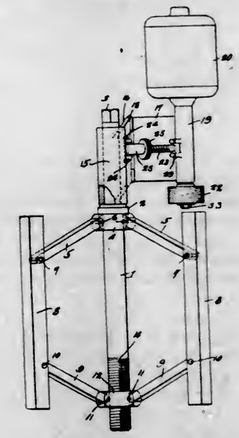
1. A tie-back for a draped curtain comprising a pair of spaced paralleling legs joined at one end, and a resilient clasp for curtain engagement secured to one of said legs adjacent its free end.

2,403,362
RUNNING GEAR
James M. Hait, San Gabriel, and Thomas B. Keesling, San Jose, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 5, 1943, Serial No. 493,588
1 Claim. (Cl. 267—21)



In a running gear the combination of: an annular elastic torque spring including an inner cylindrical member, an outer sleeve member through which the inner member extends, and a tubular elastic element disposed in the space between and bonded to said members; means provided upon opposite ends of said inner member to mount said spring on a vehicle; a pair of arms rigidly fixed upon opposite ends of said sleeve member; an axle supported between said arms; a wheel rotatably carried on said axle, an annular space being left free between said members at each end of said elastic element; a pair of annular axial flanges provided on said spring mounting means and extending into said annular spaces to form limit stops preventing pinching or undue stretching of said elastic element and also preventing excessive cocking of said wheel while permitting free resilient support of said vehicle by said spring without frictional metallic contact therein during ordinary operating conditions; and a pair of radial flanges provided on said spring mounting means and spaced from opposite ends of said sleeve member to limit end play of the latter under side thrust.

2,403,363
CYLINDER RIDGE GRINDER
Edward S. Hanson, Jr., Zion, Ill.
Application February 2, 1945, Serial No. 575,802
4 Claims. (Cl. 51—245)

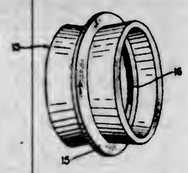


1. A grinder comprising a spindle having a shoulder, a collar wherein the spindle is rotatable, the collar engaging the shoulder, a nut spaced from the collar and threaded on the spindle, links having their inner ends pivoted to the nut, links having their inner ends pivoted to the collar, circumferentially spaced jaws, the outer ends of all the links being pivoted to the jaws, a motor having a shaft, a dressing tool attached to the shaft, and means for mounting the motor on the spindle for movement in an orbit.

2,403,364
GASKET
Emanuel A. Hertzell and Richard H. Anderson, Dover, Ohio, assignors to The Robinson Clay Product Company, Akron, Ohio, a corporation of Maine
Application July 31, 1943, Serial No. 497,142
5 Claims. (Cl. 288—24)

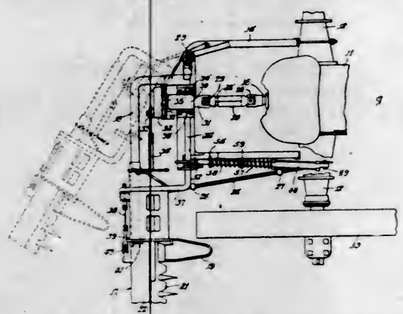
1. A gasket for pipe joints composed of impervious resilient material adapted to telescope within the confronting end portions of conjoined

pipe sections, said gasket consisting of a one-piece structure comprising two coaxial hollow



truncated cones that meet and are united with each other at their smaller ends.

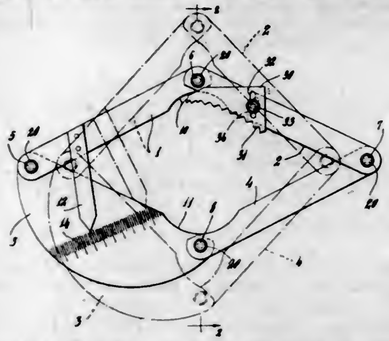
2,403,365
MOWER
Samuel E. Hilblom, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 26, 1943, Serial No. 496,105
11 Claims. (Cl. 56—25)



1. In a mower having a support and a cutter-bar connected thereto for movement through horizontal and vertical ranges, means for directly raising the cutter-bar vertically, said means comprising a lever hinged on said support and arranged to lift said attachment upon swinging movement thereof, said lever having a cup-shaped socket at one end thereof and a push rod having a ball-shaped end adapted to loosely and separably engage the cup-shaped socket, whereby the mower bar is permitted horizontal movement without any hindrance from the separable ball and socket connection for the vertical movement of the mower.

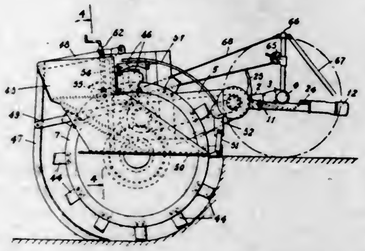
2,403,366
JAW GAUGE FOR DENTAL TREATMENT
Kalman Horvat, New York, N. Y.
Application April 24, 1944, Serial No. 532,460
1 Claim. (Cl. 33—174)

A mechanical device for controlling the movement of the lower jaw in dental treatment comprising four arms jointed in parallelogram form and adapted to embrace the jaw and the neck of a patient; screws extended through the adjoining ends of each two arms; thumb nuts engaging at least two opposite screws for frictionally retaining said arms in adjusted position; two of said arms in the vicinity of the connecting screw being shaped so as to conform substantially with the shape of the chin and the two other arms in the vicinity of the opposite screw being shaped so as to conform substantially with the shape of the rear portion of the neck; and a plate having a rough edge being adjustably secured to one of the chin engaging arms so that said rough edge causes a slight discomfort to the patient if he attempts to misdirect his jaw; one of said arms being shaped as a half-circular disk which is provided with a graduated scale and whose straight edge is at the inner side of the parallelogram formed by said arms, and that arm which is



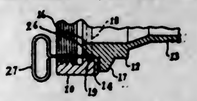
jointed to said half circular shaped arm being provided with a hand adapted to indicate on said scale the angle which is formed by said two last mentioned arms, all substantially as described.

2,403,367
TRENCH DIGGING MACHINE
Arthur Clifford Howard, Upminster, England
Application June 7, 1943, Serial No. 489,969
In Great Britain May 21, 1942
9 Claims. (Cl. 37—94)



1. In a trench digging machine of the type having a frame adapted for connection to a tractor, a wheel provided with peripheral digging tools supported in the frame, a drive transmission for said digging wheel acting to drive the bottom of the wheel in the direction of travel of the machine, means contacting the ground at a side of the ditch for controlling the depth of operation of said digging wheel, means for stripping the sods from the digging wheel tools, and a mould board having its lower edge mounted to travel closely adjacent the surface of the ground at an angle to the direction of travel for depositing the sods at the side of the trench.

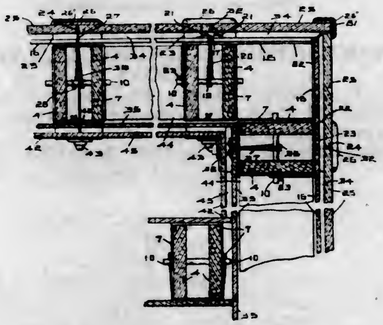
2,403,368
HOSE COUPLING
George G. Howard, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application November 14, 1942, Serial No. 465,820
2 Claims. (Cl. 285—97.3)



1. In a swivel coupling comprising a body and a nut member having interfitted portions with

aligned circumferential grooves therewithin, said nut member having an opening leading from the exterior and intercepting the respective groove, a locking wire having a pointed leading end with a cross slot adjacent thereto and a bevelled trailing end, means for locking said wire to said body by the use of a removable key engaging in said wire cross slot and said body axial slot, whereupon said wire may be assembled into the grooves by turning said nut relative to said body and removed from said grooves by inserting an instrument through the nut opening to engage the wire bevelled end and by turning the nut in the reverse direction relative to said body.

2,403,369
GLASS BUILDING CONSTRUCTION
Joseph C. Huber, Jr., La Porte, Ind.
Application June 21, 1943, Serial No. 491,609
4 Claims. (Cl. 72—16)

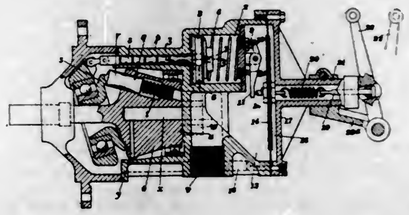


1. A building unit comprising a plurality of framing elements, and facing panels applied to opposite faces of said elements, each framing element comprising a pair of elongated strips, means for maintatining said strips in spaced parallel relation, pins extending through said strips and bridging said space, said elements being positioned with their long edge faces directed toward the facing panels; adjacent panels being positioned with their end edge portions overlying a space between a pair of the strips forming a framing element, said edge portions there being in substantial abutment, and means having a part engaging the outer faces of adjacent wall panels and another part extending between said abutment-approaching edge portions and attached to said pins for securing said panels in assembled relation with said framing elements.

2,403,370
ALKYLATION OF HALOGENOSILANES
Dallas T. Hurd, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 15, 1945, Serial No. 582,999
14 Claims. (Cl. 260—607)

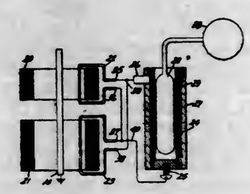
1. The method of substituting low alkyl radicals for at least some of the halogen atoms in a halogenosilane containing at least two silicon-bonded halogen atoms and at least one silicon-bonded monovalent hydrocarbon radical which comprises bringing a mixture comprising said halogenosilane and a lower alkyl halide into contact at an elevated temperature with a metal selected from the class consisting of aluminum and zinc.

2,403,371
VARIABLE OUTPUT PUMP
Richard Joseph Ifield, Solihull, Birmingham, and Wilfrid Edward Walter Nicolls, Ealing, London W. 5, England, assignors to Joseph Lucas Limited, Birmingham, England
Application November 30, 1942, Serial No. 467,408
In Great Britain September 16, 1941
6 Claims. (Cl. 103—162)



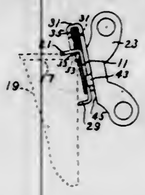
1. A variable-output pump of the swash plate type having in combination with it a cylinder which at one end is adapted to communicate with the delivery side of the pump, a fluid vent at the other end of the cylinder, a spring-loaded piston slidable in the cylinder under fluid pressure and adapted to vary the position of the swash plate of the pump, means for effecting a restricted communication between the two ends of the cylinder, a movable closure member for controlling the vent, and means responsive to fluid pressure for actuating the closure member.

2,403,372
THERMAL PROTECTION OF ELECTRIC APPARATUS
Frederick R. Jackson, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 19, 1943, Serial No. 487,602
10 Claims. (Cl. 73—350)



8. A temperature responsive apparatus including a primary winding adapted to be connected in series with a device the temperature of which is to be indicated, a pair of core members inductively associated with said primary winding, each of said core members having a secondary winding thereon, resistor means, means for connecting said secondary windings across said resistor means in parallel opposition so that current flow therethrough will be the difference between said secondary currents, said core members having similar characteristics for load currents within a predetermined range and different saturation characteristics for load currents above said predetermined range so that a resultant current will flow through said resistor only when the load current is above said predetermined range, and temperature responsive means thermally associated with said resistor for giving an indication proportional to the change in load current above said predetermined range.

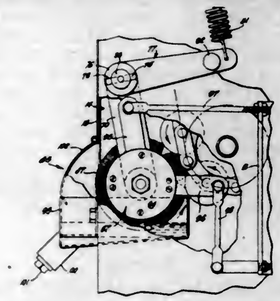
2,403,373
CAN OPENER
Jay M. Johnson, Detroit, Mich.
Application July 30, 1945, Serial No. 607,779
4 Claims. (Cl. 30—15)



4. In combination in a can opener, a base plate, a traction wheel rotatively mounted on said plate for rotation adjacent the inner side of the plate, manual turning means secured to said wheel and extending adjacent the outer side of the plate, a pair of guides extending from the upper edge of said plate and projecting inwardly to slide around the top of a can while holding the upper edge of the traction wheel snugly against the under edge of the peripheral rim of the can top, a cutter of a generally U-shape, said U-shape cutter being disposed to pass down over the upper edge of the base plate in inverted position with the inner end passing down between said pair of guides projecting in from the upper edge of the plate, the terminus of said inner end of the cutter having a sharp portion disposed adjacent the inner side of the traction wheel for cutting the top of a can or movable to a higher position to facilitate installation upon a can, the outer end of said cutter passing down over the outer side of said plate and having a surface disposed for engagement by said manual turning means, the engageable surfaces of said outer end of the cutter and the manual turning means being suitably conformed for camming the cutter down to pierce and cut a can top, a spring within said U-shaped cutter and reacting between the yoke of the cutter and the upper edge of said plate to continuously urge the cutter to move to an uppermost position, and the rear edge of the inner end of said cutter having a notch adapted to fit over the adjacent edge of the rearmost guide of the pair of guides from the upper edge of the plate, when the cutter is moved down, where it is held in latching position while the cutter is moved ahead for cutting the top of a can.

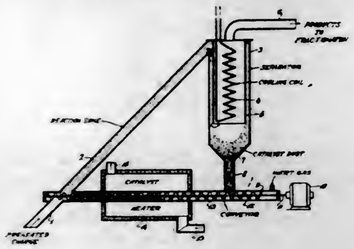
2,403,374
ROLL CLEANER
Arthur F. Kalmar and Glenn E. Stilwell, Riverside, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application June 5, 1944, Serial No. 538,838
18 Claims. (Cl. 198—229)

1. In combination: an endless traveling roller conveyor the rollers of which may acquire a deposit in use; means for rotating said rollers where they travel with said conveyor past a cleaning station; a rotary cleaning brush; means for mounting said brush with freedom to move towards and away from said conveyor; means yieldably holding said brush in contact with the rollers of said conveyor as the latter travels through said station; means for keeping said brush supplied with a solvent for said deposit and means actuated by the movement of said brush towards and away from said conveyor to



cause said brush to rotate in the same direction as said conveyor rollers.

2,403,375
PROCESS FOR EFFECTING CATALYZED REACTIONS
Louis S. Kassel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 30, 1939, Serial No. 253,484
24 Claims. (Cl. 196—52)

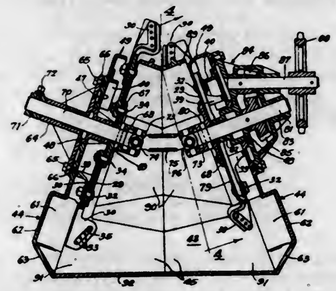


5. In a process of the character wherein a vaporous reactant is endothermically reacted while passing through a reaction zone in admixture with a powdered catalyst, the improvement which comprises preheating powdered catalyst to at least the reaction temperature of the reactant and imparting thereto sufficient heat to maintain said reaction temperature in the reaction zone, commingling with and dispersing in the vaporous reactant such an amount of thus preheated catalyst as will supply substantially all of the heat required for the endothermic reaction, passing the resultant catalyst-reactant dispersion through and maintaining the same in said zone for a sufficient time to effect the endothermic reaction of the reactant and thereafter separating the resultant reaction products from the catalyst, reheating the separated catalyst to at least said reaction temperature and commingling it with additional quantities of the reactant as aforesaid.

2,403,376
PLANTER
Lee H. Kaupke, La Grange, and Lewis E. Smith, Congress Park, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application November 17, 1943, Serial No. 510,576
5 Claims. (Cl. 222—13)

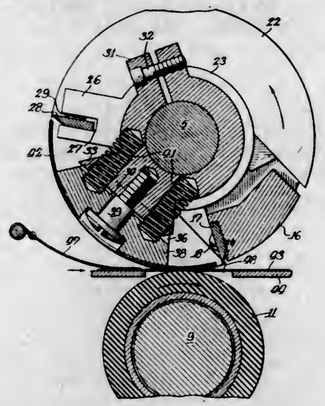
1. A planter comprising a pair of rotatable carriers arranged with their axes of rotation out of

parallelism and alinement so as to be relatively closely spaced with respect to one another but out of contact at portions at one side of the axes of rotation and relatively widely spaced from one another at portions at the other side of the axes of rotation, radially outwardly extending hinged means mounted on the carrier for causing



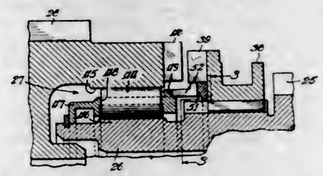
seeds to be received at the widely spaced portions, means for causing seeds to be discharged from said means at the closely spaced portions, drive means axially disposed respectively relative to each carrier, and means drivingly interconnecting said drive means between the carriers to rotate the carriers together.

2,403,377
SCORING ROLL
Daniel E. Kelley, Chicago, Ill., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a corporation of Illinois
Application September 4, 1944, Serial No. 552,640
8 Claims. (Cl. 93—58.1)



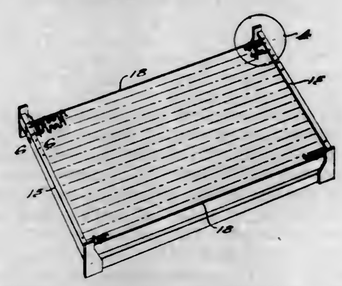
1. In a scoring roll, the combination of a rotatable shaft, a pair of collars adjustably mounted thereon, a bar connecting said collars, a lower score blade mounted on said bar, a pair of circular disc-like score blades mounted in spaced apart relation to rotate concentrically with said shaft, a pair of collars adjustably mounted on the shaft between said circular score blades, a top score blade carried by said last mentioned collars, a block yieldingly mounted for movement radially of the shaft but restricted against movement longitudinally of said shaft, and a curved plate of substantially the area enclosed by said score blades mounted on said block.

2,403,378
TRANSMISSION
Ano E. Kilpela, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 4, 1943, Serial No. 477,953
2 Claims. (Cl. 192—48)



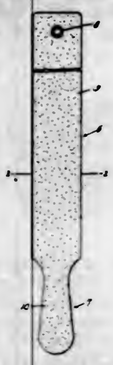
1. In combination, a driving member, a driven member, a one-way clutch for connecting said members in driving relation, said clutch comprising a plurality of rollers and opposite surfaces between which the rollers are adapted to wedge for locking up the clutch, a carrier for said rollers and movable with the rollers, a positive type clutch for connecting said members in driving relation, said positive clutch comprising a pair of members having axially extending teeth one of which members is axially movable for interengaging the teeth of the positive clutch members, an axially extending cam on said carrier, and an axially extending cam on the movable member of said positive clutch and located radially inwardly of the teeth on said member, said cam on the movable member of said positive clutch being adapted to cooperate with the cam on said carrier whereby, when the movable toothed member is moved to engage the positive clutch, the carrier is moved and the rollers are moved out of position for wedging between said opposite surfaces, thereby rendering the one-way clutch inoperative.

2,403,379
SPRING ELEMENT AND CONSTRUCTION
Abraham Krakauer, Brooklyn, N. Y., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application July 28, 1941, Serial No. 404,301
4 Claims. (Cl. 5—189)



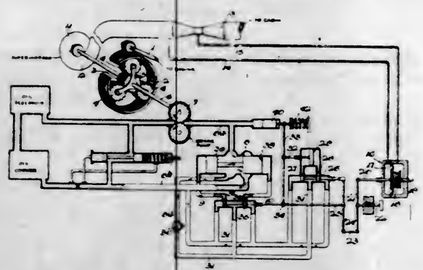
1. A spring construction comprising a plurality of sinuous strips formed of wire bent into S-shaped convolutions of predetermined width and other convolutions of greater width with the convolutions of greater width disposed between a plurality of the convolutions of predetermined width, the adjacent strips being formed with the extended convolutions disposed in the opposite direction to be in aligned abutting relation, and means for securing the extended convolutions together.

2,403,380
RAZOR STROP
Anthony Kuzdal, Willimantic, Conn.
Application May 23, 1945, Serial No. 595,319
1 Claim. (Cl. 51—200)



A straight razor stropper of the class described comprising an elongated strip of soft balsa wood of predetermined shape and proportions, and a companion and coacting correspondingly shaped and proportioned elongated strip of leather, said strips being securely fastened together at their respective outer ends and having their intermediate portions freely detached and separated from one another.

2,403,381
REGULATED SYSTEM
Donald M. Lawrence, Newark, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 19, 1944, Serial No. 545,688
8 Claims. (Cl. 230—11)



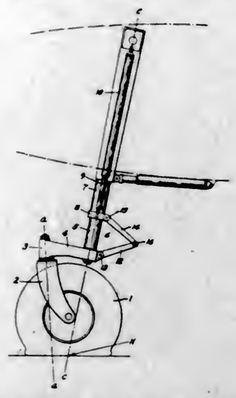
1. A regulated system comprising, in combination, a blower, a venturi for the flow from the blower, a hydraulic device for governing the driving torque for the blower, and a regulator for the hydraulic device, which regulator includes means for maintaining a value of a physical variable proportional to the Venturi differential, means including a spring and piston for creating a movement of the piston proportional to the hydraulic pressure, a control valve for the hydraulic pressure, a servomotor for positioning said valve, a throttling relay for said servomotor, and follow-up means operatively connecting the relay with both the other means to correspondingly operate the relay upon a change in either the value of said physical variable or the position of said piston, said follow-up means including a resilient reset means having a second relay actuated upon a change of either said value or said position and a second servomotor governed by said second relay to reset the follow-up means to gradually destroy the stated correspondence, whereby, upon a sudden change of the flow through the venturi, there is a sudden proportional change in the corresponding value of said physical variable and an actuation of the first-named relay and of the reset means to produce a quick substantially proportional change of the hydraulic pressure followed by a slow further change thereof in the same direction.

2,403,382
SLIDE RULE
Samuel Lerner, Pawtucket, R. I.
Application March 20, 1944, Serial No. 527,296
1 Claim. (Cl. 235—70)



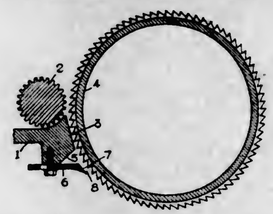
A calculating instrument comprising a cylindrical body member, having a scale thereon, a transparent cylindrical tubular member having a bore of a size to slidingly fit said body member, telescoping thereover and having scale thereon cooperating with the scale on the body, and a cylindrical cursor member of transparent material slidably fitting said tubular member and having two datum lines one on its inner surface and the other on its outer surface, said lines being in a plane at right angles to the scales on said body and cylindrical members.

2,403,383
FRONT STRUT FOR TRICYCLE LANDING GEARS
René Lucien Levy, Paris, France, assignor to Societe D'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland
Application May 4, 1943, Serial No. 485,661
In France July 24, 1941
1 Claim. (Cl. 244—104)



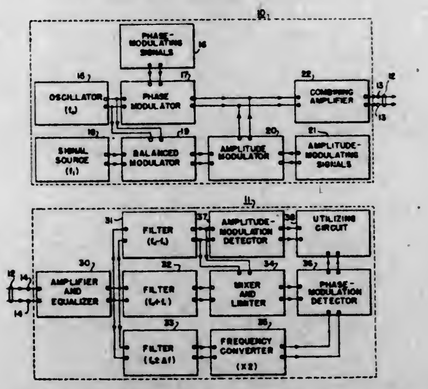
In a front strut for tricycle landing gear, a forwardly inclined main damping device including an upper relatively fixed part and a lower movable part, a bracket carried with the lower part of the damping device and extending forwardly thereof, a slightly rearwardly inclined post rotatably mounted adjacent the front end of said bracket, a rearwardly inclined fork supported by said post, a rolling member journalled in said fork, the axis of the damping device passing through the mean point of the contact surface of the rolling member with the ground, a socket carried with the lower end of the upper part of the main damping device, secondary damping devices operatively connected to the socket, and arms articulated to each other and to the socket on the main damping device and to the bracket to prevent angular displacement of the bracket around the axis of the main damping device.

2,403,384
CARDING ENGINE
John Locke, Didsbury, Manchester, England, assignor to The British Cotton Industry Research Association, Didsbury, Manchester, England, a British association
Application April 7, 1944, Serial No. 529,942
In Great Britain April 23, 1943
7 Claims. (Cl. 19—105)



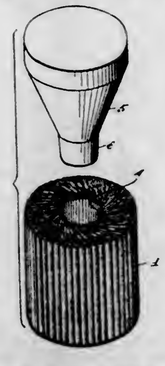
1. In a carding machine having a taker-in and a dish plate provided with a complementary striking face disposed adjacent to said taker-in for cooperation therewith, said dish-plate having a second face below said striking face and extending at an obtuse angle therefrom, a cleaning device comprising a control member carried by said dish plate and having an upper surface lying in a plane facing the oncoming stream of material from said striking face, said surface being disposed at an acute angle to the taker-in and forming with said second face a wedge-shaped space diverging toward the taker-in, said control member having also a striking edge disposed in a plane at an obtuse angle to the striking face of the dish plate and forming a second striking surface below said wedge-shaped space.

2,403,385
SIGNAL-TRANSLATING SYSTEM
Bernard D. Loughlin, Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application September 20, 1943, Serial No. 503,071
32 Claims. (Cl. 179—15)



1. A signal-translating system comprising, means for supplying a first signal, means for effectively supplying a second signal comprising a pair of signal components having predetermined phase relations with reference to said first signal and being individually spaced therefrom in the frequency spectrum by equal and opposite values, means for modulating the angular velocity of one of said first and second signals in accordance with information to be transmitted to develop a modulated carrier signal having predominant modulation components within a modulation band located only in a portion of the frequency spectrum which is adjacent its carrier frequency, the width of one modulation sideband thereof being less than one of said values, a signal-translating channel having input and output terminals, means for applying said modulated carrier signal and the other one of said first and second signals to said input terminals, and means coupled to said output terminals for utilizing said modulated carrier signal and said other one of said first and second signals to derive said modulation components.

2,403,386
BLASTING PLUG
Benjamin L. Lubelsky, Wynnewood, and Walter R. Walburn, Shamokin, Pa., assignors to Heitzman Safety Blasting Plug Corp., Shamokin, Pa., a corporation of Pennsylvania
Application January 30, 1941, Serial No. 376,684
13 Claims. (Cl. 102—30)

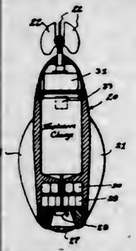


8. A blasting plug comprising a substantially tubular body composed of flexible sheet material, the wall of said body exhibiting a plurality of pleats with edges disposed at the inner and outer peripheral surfaces of the wall and extending longitudinally of the tubular bore of the body, said pleats providing for increase in the effective circumferential dimension of the wall and expansion of the body radially with respect to the longitudinal axis of said bore, and the longitudinal edges of the pleats being contiguous so as to afford substantially even and continuous inner and outer wall surfaces.

2,403,387
RADIANT ENERGY RESPONSIVE DIRECTIONAL CONTROL
Miles A. McLennan, Detroit, Mich.
Application December 19, 1942, Serial No. 469,511
10 Claims. (Cl. 250—41.5)

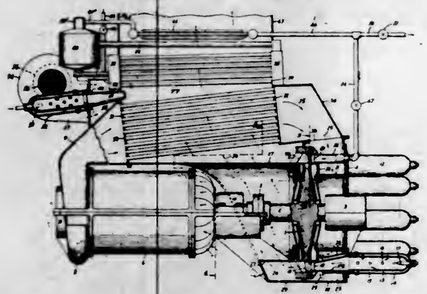
5. A control mechaninsm responsive to radiant energy contrast which comprises an optical device for picking up and concentrating energy rays, a photo sensitive device including a plurality of sensitized electrodes located in the focus of said optical device, a plurality of control devices, one for each sennsitized electrode, means for ampli-

fying signals caused by light concentration on said electrodes, and means for discharging the energy collected on said electrodes in succession and for causing simultaneous energization of a



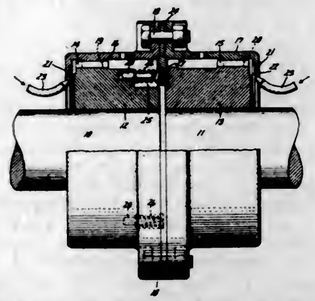
control device corresponding to the electrode energized to effect a predetermined movement of said control devices depending on the relation of said source of radiant energy to said optical device.

2,403,388
GAS TURBINE POWER PLANT
Arthur H. Morey and Alan Howard, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application April 26, 1944, Serial No. 532,785
3 Claims. (Cl. 60—49)



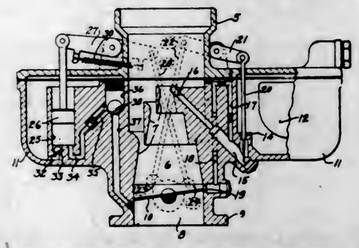
1. In a compact portable turbine powerplant, the combination of an air compressor and a turbine with their rotors mounted on a common shaft, the inlet end of the compressor being adjacent the discharge side of the turbine and the compressor discharge scroll remote from the turbine, a nozzle diaphragm for the turbine including hot gas nozzles and a limited arc of steam nozzles, bearing means supporting the shaft including a bearing at either end of the shaft and an intermediate bearing between the compressor and turbine, an end wall spaced from the turbine and arranged to support the turbine end bearing, an annular plenum chamber surrounding the turbine end bearing between the turbine and the end wall, a plurality of combustors radially spaced from and circumferentially spaced around the turbine end bearing and projecting through and supported by the end wall, each combustor including an outer substantially cylindrical casing and an inner liner spaced from the casing to form an annular air inlet passage therebetween, the inner liner having an end transition section communicating with the turbine nozzle diaphragm and the outer casing having an end portion terminating within the plenum chamber and cooperating with the liner transition section to form an annular opening arranged to admit air from the plenum chamber to the air inlet passage of the combustor, an air preheater arranged closely adjacent and immediately above the compressor and turbine, conduit means connecting the discharge scroll of the compressor with the preheater and the plenum chamber in series flow arrangement, and an annular turbine discharge casing surrounding the intermediate bearing and spaced therefrom to provide free access of ambient air to the compressor inlet, the side walls of the discharge casing extending upwardly and transitioning to the bottom of the preheater casing to form the hot gas inlet thereto, a steam waste heat boiler mounted above, supported directly on, and arranged to receive hot combustion gases discharged from the preheater, means for supplying steam from the boiler to the steam nozzles of the turbine, and auxiliary combustion means supported adjacent a side wall of the steam boiler and arranged to supply hot gases thereto independently of the operation of the turbine.

2,403,389
FLEXIBLE GEAR COUPLING ARRANGEMENT
Robert L. Morey, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application April 21, 1944, Serial No. 532,059
3 Claims. (Cl. 64—9)



1. Flexible gear coupling arrangement comprising two gears each having a row of teeth, a shell having internal teeth meshing with said rows of teeth, and means for centering the shell on the gears comprising a plate secured to the shell and having one side contacting the end face of the first gear and resilient means arranged between the other side of the plate and the second gear so as to bias the plate into yielding engagement with the end face of said first gear.

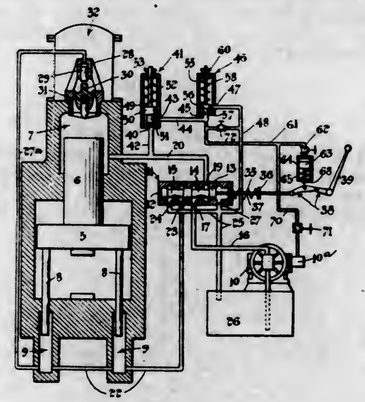
2,403,390
CHARGE FORMING DEVICE
James T. W. Moseley, Clayton, Harold A. Carlson, University City, and Alex N. Szwargulski, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 1, 1943, Serial No. 508,572
3 Claims. (Cl. 261—34)



3. In a charge forming device, a mixing conduit having a throttle therein, an accelerating pump,

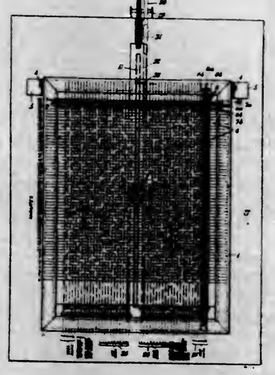
yielding means to discharge said pump responsive to opening of said throttle, intersecting passageways forming a connection between said pump discharge and said mixing conduit, a pair of oppositely facing valve seats formed in said intersecting passageways, one of said seats being located in the first of said passageways, the other seat being located at the intersection of said passageways, a pressure actuated valve for the first of said seats normally closing the first of said passageways and unseated by fluid pressure from said pump, a suction actuated valve arranged for seating with the opposite valve seat, said suction actuated valve being seated responsive to relatively high suction conditions in said mixing conduit for closing the second of said passageways and for applying pressure to said pressure actuated valve to assist in retaining said pressure actuated valve on its seat, and means for unseating said suction actuated valve under normal or low suction conditions upon operation of said pressure actuated valve.

2,403,391
HYDRAULIC PRESS
William P. Muir, Hampstead, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada
Application June 13, 1942, Serial No. 446,994
In Canada April 11, 1942
2 Claims. (Cl. 60—52)



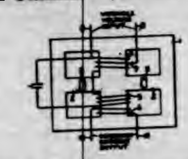
1. A hydraulic press including a main control valve through which pressure fluid is routed to effect a working stroke of the press in one position of said valve and to effect a return stroke of the press in another position of said valve, a collapsible valve-actuating toggle connected to said valve and serving, when extended, to hold said valve in its first mentioned working stroke position, a fluid pressure toggle-collapsing device comprising a cylinder and a piston working in said cylinder and connected to said toggle, biasing means arranged to shift said valve to the second mentioned or return stroke position upon collapse of said toggle by said piston, a fluid line through which pressure fluid is conducted from said valve to the pressing cylinder of the press in the working stroke position of the valve, an excess-pressure relief line connected to said first mentioned line at a point between the pressing cylinder and said valve, a normally closed working-pressure regulating valve arranged in said relief line and adapted to be instantly opened by the pressure fluid when the working pressure in the pressing cylinder is built up to a predetermined maximum value, said relief line and pressure regulating valve being of sufficient capacity to carry off from said first mentioned line all the pressure fluid in excess of that required to maintain the said predetermined maximum working pressure in said pressing cylinder, a back pressure regulating valve included in said relief line at the discharge side of the working-pressure regulating valve and functioning, in the open position of said working-pressure regulating valve, to maintain a definite intermediate pressure in a portion of the relief line located between said valves, a valve-controlled fluid transfer line connected between the cylinder of the toggle collapsing device and the portion of the relief line located between the discharge side of the working-pressure regulating valve and the inlet side of the back pressure regulating valve and a valve-controlled by-pass line having one end connected to said fluid transfer line and the other end connected to said relief line at the discharge side of the back pressure regulating valve.

2,403,392
ELECTRIC MASTER SWITCH OR ELECTRICAL TIMING DEVICE FOR CONTROLLING THE OPERATIONS OF LAUNDRY OR OTHER PLANTS OR APPARATUS
Stanley Newbery, London, England
Application May 18, 1945, Serial No. 594,453
In Great Britain July 2, 1943
6 Claims. (Cl. 200—35)



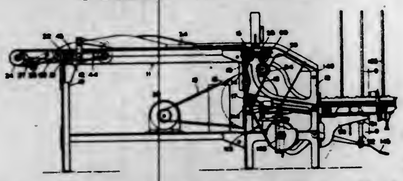
1. A master switch or electrical control device for controlling the operations of laundry or other plant, comprising a contact control member displaceable at a predetermined time rate, a set of parallel members spaced apart in one plane at predetermined time intervals with respect to the travel of the contact control member and adapted successively to be energised by the said control member, a second set of operational members connectable in different operating circuits of the plant or apparatus and arranged in a parallel plane transversely to the first set so as to afford separated crossing points, and a set of contact pieces for forming conducting bridging elements between members of one set and members of the other set at selectively predetermined crossing points ready to receive current when the control member in succession contacts with the time members of the selected crossing points.

2,403,393
REGULATOR
Justin Peterson, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application April 16, 1943, Serial No. 483,353
11 Claims. (Cl. 171—119)



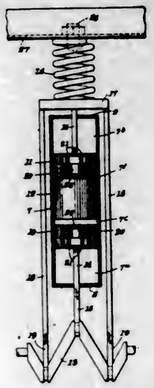
4. In combination, a transformer having a continuous magnetic leakage flux path with a saturated restricted section magnetically between all of the primary winding and all of the secondary winding, a capacitor, and coupling means for impressing across said capacitor a voltage which is proportional to the leakage reactance voltage drop of said transformer.

2,403,394
COMBINED FOLDING AND STACKING MACHINE
John E. Preston, Northport, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Original application March 27, 1942, Serial No. 436,466. Divided and this application December 8, 1943, Serial No. 513,332
3 Claims. (Cl. 270—82)



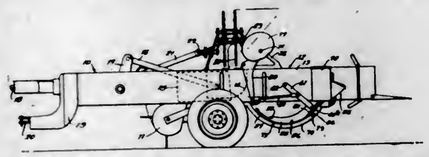
3. A machine of the character described, including means for moving flat articles to be folded along a path, a reciprocating cross folding device located adjacent said path and having advance folding and retiring movements, stacking means arranged to stack the folded articles by additions to the bottom of the stack and including a reciprocating lifting plate having advance stacking and retiring movements, means for delivering folded articles from the folding device into position resting upon the lifting plate, controlling means sensitive to movement of an article along said path, operating means for the cross folding device controlled thereby, actuating mechanism for the lifting plate including a trigger device, means operatively connected to said controlling means for actuating said trigger device, said operating means and actuating mechanism being so constructed and so associated with said controlling means that when operated they simultaneously initiate advance folding movement of the folding device and advance stacking movement of the lifting plate, whereby one folded article is lifted and added to the stack at the same time a following article is folded, and manually operated means also connected to said trigger device and extending to the outside of the machine to a position convenient for access by the operator, whereby the operator at will can cause actuation of the lifting plate without operation of the folding device, for the purpose of advancing to stack position in the stacking means an article which otherwise might remain unstacked therein.

2,403,395
COMBUSTION ENGINE
Fernando G. Prieto, Los Angeles, Calif.
Application September 10, 1945, Serial No. 615,401
2 Claims. (Cl. 123—51)



1. A two-stroke cycle internal combustion engine comprising a crankshaft, at least one cylinder associated with the crankshaft, a pair of opposed working pistons in each cylinder, a free piston freely movable between said working pistons to form a combustion chamber between itself and its related working pistons alternately, means directly connecting one working piston to the crankshaft, and means including an inertia member connecting the other working piston to said crankshaft.

2,403,396
TYING MECHANISM
Russell R. Raney, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 17, 1943, Serial No. 510,582
18 Claims. (Cl. 100—20)

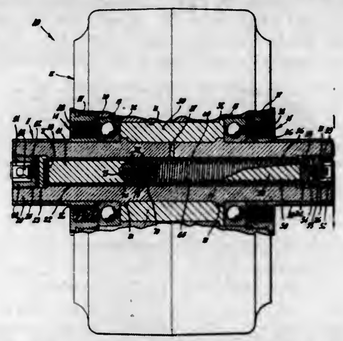


1. In combination, means forming a chamber for a mass of material to be tied, a supporting member movable across one side of the mass, a tying-strand-carrying element movably connected to the supporting member, means for moving the supporting member across the said one side of the mass to bring the element across the said one side to an adjacent side of the mass, and means positioned at the said adjacent side to cause the element to move along the said adjacent side of the mass.

2,403,397
LUBRICATION SYSTEM
Dan R. Rankin, Los Angeles, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 19, 1942, Serial No. 462,485
7 Claims. (Cl. 308—93)

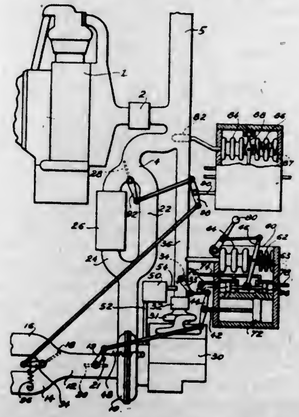
1. In a lubrication system for supplying lubricant to a lubricant chamber, the combination of: means forming a cylinder having an air-tight closed end, the open end of said cylinder being

adapted to communicate with said chamber; a cup plunger disposed in said cylinder and adapted when lubricated to make an airtight fit therewith; and an expansion spring in said cylinder



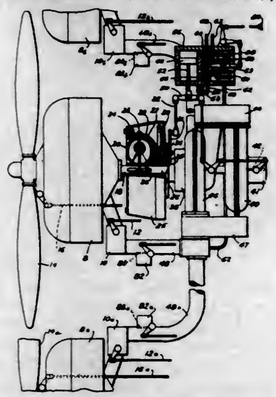
between the closed end thereof and said plunger, said spring having sufficient expansive strength when compressed to expand and force said plunger toward the open end of said cylinder against the pressure of the atmosphere.

2,403,398
ENGINE REGULATING MEANS
Ferdinando Carlo Reggio, Norwalk, Conn.
Original application February 5, 1938, Serial No. 188,960. Divided and this application May 7, 1945, Serial No. 592,419
57 Claims. (Cl. 123—119)



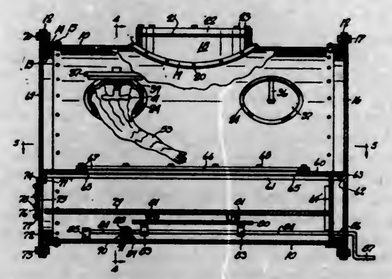
1. In combination with an internal combustion engine, a blower to supply a compressed fluid thereto, means for throttling the intake of said blower, a motor to drive said blower at variable speed, means for adjusting the speed of said blower between predetermined minimum and maximum values, control means for regulating the pressure of said fluid supplied to said engine, and means cooperating with said first, second and third mentioned means whereby in response to the adjustment of said control means a certain lower range of pressure of said fluid is obtained by keeping the speed of said blower substantially constant at said minimum value and suitably throttling the intake of said blower, and the values of pressure of said fluid beyond said lower range are obtained by keeping the inlet of said blower wide open and suitably adjusting the speed of said blower beyond said minimum value, thereby avoiding the waste of power that would occur if simultaneously the intake of said blower were partially throttled and the speed thereof adjusted at an unnecessarily high value.

2,403,399
POWER PLANT
Ferdinando Carlo Reggio, Detroit, Mich.
Application March 29, 1941, Serial No. 385,806
18 Claims. (Cl. 170—135.6)



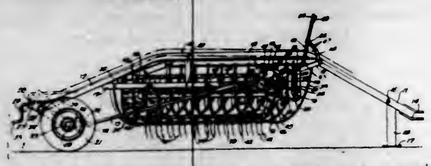
11. In an aircraft having engines, variable pitch propellers driven from said engines, and means for controlling said pitch thereof to keep said engines at the same speed, one supercharger delivering air to said engines, one throttle valve common to said engines, a variable-speed transmission driving said supercharger from one of said engines, transmission speed ratio control means, means responsive to an operative condition of one of said engines and to the atmospheric pressure to control said speed ratio control means and throttle valve, and manual control means for altering the operative adjustment of said operative condition and atmospheric pressure responsive means during flight.

2,403,400
SURGICAL OPERATING DEVICE
James A. Reyniers, Niles, Mich.
Application November 3, 1941, Serial No. 417,657
18 Claims. (Cl. 128—1)



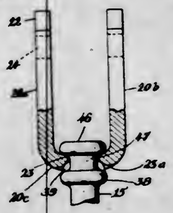
1. A surgical operating device comprising a housing having a restricted opening at one end and two or more openings at its upper portion, a flexible glove marginally secured to said housing around one of said upper openings, a transparent closure sealing another upper opening, a horizontal apertured partition, a severable sheet spanning said partition opening, said partition and sheet separating said housing into a lower patient-receiving compartment communicating with said end opening and an upper operating compartment, a horizontal patient-supporting member within said lower compartment.

2,403,401
SIDE DELIVERY RAKE
Edward L. Rietz, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 27, 1943, Serial No. 515,643
3 Claims. (Cl. 56—377)



1. A side delivery rake comprising a supporting frame adapted to be held at its forward end by a draft vehicle and at its rear end by a two wheel truck including an axle and a pair of spaced wheels attached to said axle, a cylinder frame suspended from said supporting frame and positioned at an angle from the right front to the left rear, a raking cylinder rotatably journaled in said cylinder frame, means for driving the raking cylinder at its right front end from said axle at a position adjacent the left rear wheel, said means for driving the raking cylinder comprising a drive arm extending substantially parallel with the angularly positioned cylinder frame and associated with the wheel truck axle and raking cylinder.

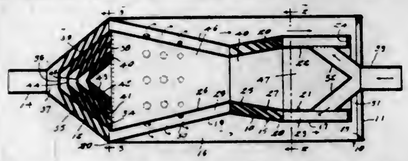
2,403,402
TURNBUCKLE
Peter Rossi, Brooklyn, N. Y., assignor to Joseph W. Yellen, New York, N. Y.
Application July 19, 1943, Serial No. 495,267
2 Claims. (Cl. 287—103)



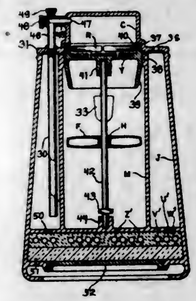
2. In a turnbuckle assembly, a connector, a rod in threaded engagement therewith, a jaw having a base member provided with an aperture therein, the aperture adjacent the lower surface of the base member being elliptical, the rod at the outer end thereof penetrating said aperture, means at the end of the rod to engage the upper surface of said base member adjacent the aperture and means spaced from said first mentioned means on the rod to engage the aperture adjacent the elliptical portion whereby a rigid and non-rotatable joint is formed between the jaw and rod.

2,403,403
MUFFLER
Urban Sauer, Pittsburgh, Pa., assignor of two-fifths to Harry R. Levy, McKeesport, Pa.
Application August 21, 1944, Serial No. 550,445
8 Claims. (Cl. 181—58)

1. A muffler comprising an outer cylindrical casing, a conical forward end carried by said casing, a discharge nipple extending from said conical forward end, an inner casing disposed within said outer casing, a conical forward end carried by said inner casing aid disposed within the forward end of said outer casing, spiral blades disposed between the conical forward ends of said inner and outer casings, an intermediate casing disposed between said inner and outer casings and terminating at the forward end thereof at the base of said first conical end, means discharging gases into the space between said inner and intermediate casings, said intermediate casing having openings forwardly of the rear end thereof whereby some of the gases in said space may enter the chamber formed between said intermediate and outer casings, said inner casing being open at the rear thereof and having communication with said chamber whereby all of the gases in said chamber will enter said inner casing from the rear thereof.



2,403,404
VACUUM SIPHON PERCOLATOR
Frank Earl Scott, Wallace, Idaho
Application August 10, 1943, Serial No. 498,068
9 Claims. (Cl. 99—302)

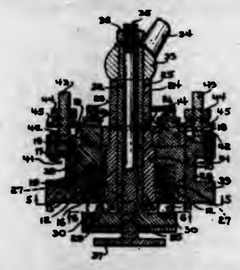


1. A vacuum siphon percolator comprising a main chamber, a constantly vented hot water jacket surrounding the side walls only of said main chamber, a ground coffee container seating upon said main chamber and having an airtight union with the walls thereof and a communication with the interior thereof, a siphon leading from said ground coffee container and into said hot water jacket, means for venting said main chamber direct to atmosphere while boiling water therein, means for hermetically sealing said main chamber so that condensation of steam therein will afford a partial vacuum and thereby lift water from said hot water jacket through said siphon and through said ground coffee container and into said main chamber whereby said hot water jacket will retard the temperature drop within said main chamber thereby retarding the rate of flow through said ground coffee container.

2,403,405
TURRET HEAD FOR LATHES
Frank Sirola, New York, N. Y.
Application July 26, 1945, Serial No. 607,236
6 Claims. (Cl. 29—48)

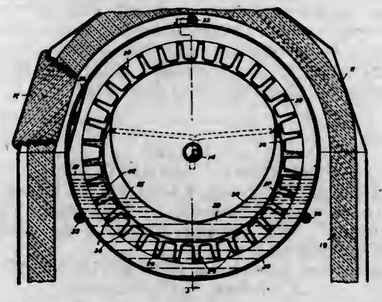
1. A turret head for a lathe comprising a carrier having four sides, each provided with a dovetail tongue, a vertical bore adjacent each side and opening through the side of the adjacent tongue, and a central bore, slide block means in said central bore for connecting said head to said

lathe, a tool holder slidably mounted on each of said tongues, each of said holders having a vertically upstanding threaded stud, an eccentric pin in each of said vertical bores, having journals at its ends, the bottom journals fitting in bearings in said carrier, each pin having a cam portion between said journals adapted to engage the inner face of the adjacent holder for locking said holder when said pin is rotated, a bearing disc on each pin top journal fitting in a recess in said carrier top wall, a nut threaded on each of said studs, each of said nuts having a flange abutting



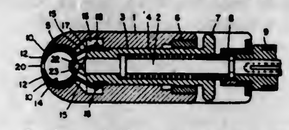
the top of the adjacent bearing disc and adapted, when said cam portion does not lock the holder, to move the holder vertically dependent upon the direction of rotation of said nut, each of said eccentric pins having a groove in which the adjacent nut flange fits, the top wall of said groove having one flat side adapted, when turned toward said adjacent nut, to leave the flange of the nut uncovered whereby when said eccentric pin is rotated to lock said holder by its said cam portion said top wall of said groove overlies said nut flange, and means overlying the inner edges of said bearing discs, holding them against said carrier.

2,403,406
ICE CUBE MANUFACTURING APPARATUS
Arthur D. Smith, Canton, Ohio, assignor to Barium Steel Corporation, Canton, Ohio, a corporation of Delaware
Application September 12, 1944, Serial No. 553,735
16 Claims. (Cl. 62—106)



1. An apparatus for freezing ice cubes, comprising a water jacket for containing water to be frozen, a hollow drum rotatable within said water jacket, ice cube molds arranged in the periphery of the drum, an evaporator comprising a cylinder located within the drum and forming a brine chamber between the exterior of said cylinder and the interior of the drum, an evaporator chamber formed in the lower portion of said cylinder, means for introducing a refrigerant fluid into the refrigerant chamber, means for introducing brine into the brine chamber and means for rotating the drum.

2,403,407
MECHANICAL RAZOR
John Soane, Cleveland, Ohio
Application January 1, 1944, Serial No. 516,618
11 Claims. (Cl. 30—43)

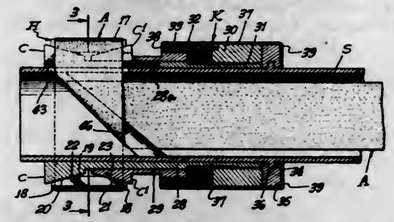


1. In a device of the character described, the combination with a cylindrical shell having plural series of longitudinally spaced cutting edges which face each other and are adapted to be brought in contact with the skin of a person to permit hair to enter said shell; of a second shell oscillatorily mounted within said first shell and having a longitudinal slot, the respective sides of such slot constituting uninterrupted cutting edges adapted to cooperate with such spaced cutting edges in said first shell.

2,403,408
PRODUCTION OF THICKENED PRODUCTS FROM FATTY ACID ESTERS
Paul Stamberger, Dover, Del.
No Drawing. Application January 11, 1943, Serial No. 472,022
11 Claims. (Cl. 106—254)

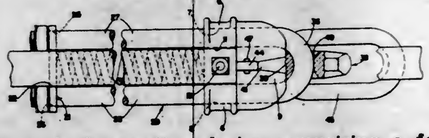
9. A process for producing stable aqueous oil-in-water emulsions of thickened esters, which process comprises emulsifying in water by the aid of an emulsifying agent a polyhydric alcohol ester of a polyunsaturated long chain fatty acid, to form an oil-in-water emulsion and subjecting the emulsified particles to oxidation with hydrogen peroxide in the presence of a drier, the emulsion, during oxidation, having a pH value between about 4 and 10, and the oxidation being continued until the ester is appreciably thickened.

2,403,409
HONING TOOL
Gaylord E. Strahm, Los Angeles, Calif.
Application September 22, 1943, Serial No. 503,320
11 Claims. (Cl. 51—194)



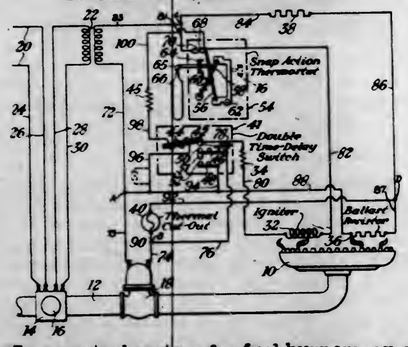
1. A honing tool comprising a tubular support; an expansible head on the outside of said support; and guide members in said support so constructed and arranged that two connected lengths of flexible and abrasive material positioned longitudinally within said support, can be extended radially outward of the support and around said head to cover the latter to provide a substantially circular abrasive medium for said head; complemental cams between said head and said support movable lengthwise of said support to effect radial expansion of said head; sleeves secured to said cams for movement lengthwise on said support; and a collar threadedly engaging both of said sleeves so that by rotation of said collar said cams will be moved in opposite directions to expand said head.

2,403,410
HITCH DEVICE
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 13, 1944, Serial No. 540,098
2 Claims. (Cl. 280—33.16)



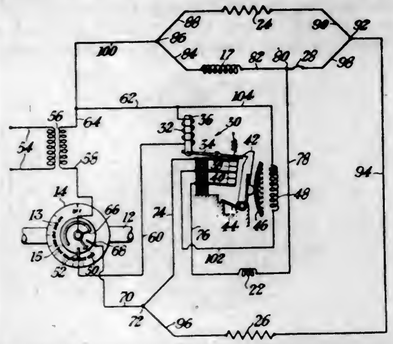
1. A draft coupling device comprising a fore and aft extending frame, a U-shaped draft bolt formed of substantially round stock and disposed for longitudinal movement relative to said frame, spring means for resisting such movement of the draft bolt, the intermediate portion of the draft bolt being of generally arcuate formation, being arcuate about a center substantially midway between the sides of the draft bolt, and a coupling member rotatably mounted on the arcuate portion of said draft bolt, said coupling member having a central opening receiving the draft bolt, the interior surface of said coupling member being of generally hourglass configuration and presenting a curved surface formed by a generatrix which comprises a curved line arcuate about a center and having a radius substantially equal to the radius of curvature of the inner arcuate portion of said draft bolt, whereby said coupling member fits closely against the rear portion of the arcuate section of the draft bolt, the radius of the path of movement of said generatrix, in generating said curved surface, being movable about an axis that is spaced from said arcuate line a distance equal substantially to one half the diameter of said drive bolt, whereby said coupling member is removable from the draft bolt, as by sliding the coupling member around the arcuate portion of the draft bolt and then along one end portion of the latter.

2,403,411
CONTROL SYSTEM FOR FUEL BURNERS
Charles K. Strobel, Pittsburgh, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application August 23, 1944, Serial No. 550,757
10 Claims. (Cl. 158—117.1)



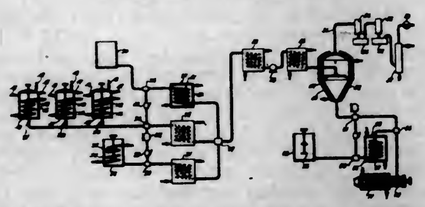
1. In a control system for fuel burners, an electrical igniter, an energizing circuit for said igniter, a thermal switch having contacts operable for opening and closing said circuit, a heater for said switch, and a control switch having contacts operable for controlling said heater and being cooperable with said thermal switch contacts for controlling said circuit.

2,403,412
IGNITION AND SAFETY CONTROL SYSTEM FOR FUEL BURNERS
Charles K. Strobel, Pittsburgh, Pa., and Samuel G. Eskin, Los Angeles, Calif., assignors to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application August 8, 1945, Serial No. 609,626
6 Claims. (Cl. 158—117.1)



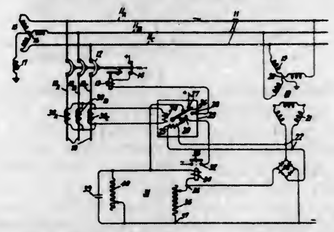
4. An ignition and safety control system for fuel burners energizable from a source of current supply and comprising an electric igniter for the fuel connected in a first arm of an electrical bridge circuit, an electrically operable fuel control device in a second arm of said bridge and operable to supply fuel when current of sufficient value is supplied thereto, a pair of resistors in third and fourth arms respectively of said bridge, one of said resistors being exposed to the heat of the burning fuel for varying in resistance and causing variation in said current value, control means for rendering said igniter inoperable and said current value insufficient after a predetermined period unless said one resistor is heated, said control means comprising switch contacts operative for opening and closing said first arm and a winding for operating said contacts, switching means for connecting the source across opposite junctions of said bridge with said first and second arms and said third and fourth arms in series circuit respectively and in multiple across said junctions, said winding being connected in a separate circuit with the source and adapted to be deenergized by operation of said switching means to cause operation of said switch contacts for opening said first arm.

2,403,413
PROCESS OF MAKING SOAP
Benjamin H. Thurman, Charlotte, N. C., assignor, by mesne assignments, to Benjamin Clayton, Houston, Tex., doing business as Refining, Unincorporated
Application March 23, 1942, Serial No. 435,900
12 Claims. (Cl. 252—39)



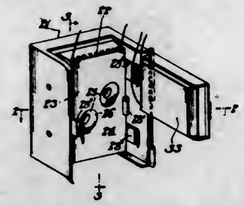
1. The process of making soap and recovering glycerine from glycerides, which comprises, splitting said glycerides to produce a mixture of glycerine, fatty acids and water, adding a saponifying agent to said mixture to convert said fatty acids into soap, and separating glycerine from said soap.

2,403,414
PROTECTIVE SYSTEM
Oliver C. Traver, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application January 27, 1944, Serial No. 519,928
31 Claims. (Cl. 175—294)



1. Controlling means for an electric circuit comprising an electroresponsive device, and means for energizing said electroresponsive device from said circuit so as to be dependent solely on overvoltage to effect a circuit controlling action upon the occurrence of a ground fault on said circuit in a time proportional to the distance of said device from said fault.

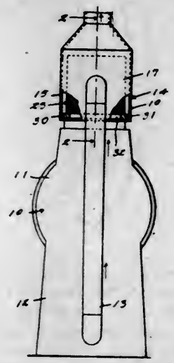
2,403,415
HEATING GUNS
Gerrit Van Daam, Buffalo, N. Y.
Application October 1, 1943, Serial No. 504,597
4 Claims. (Cl. 219—19)



1. A heating device for guns, comprising an electrical resistance, a housing enclosing the same, a frame for securing the heater to the gun for right-hand or left-hand position, the gun having a contact surface provided with a convex formation, the housing having a contact face provided with two spaced apart concavo formations each of which is adapted for selective registration with said convex formation, and resilient means for insuring effective contact between the heater and the gun.

2,403,416
LINT TRAP
Ragan M. Vandegriff, Atlanta, Ga.
Application April 16, 1945, Serial No. 588,697
1 Claim. (Cl. 183—36)

In a device as described, a lint and detergent conveying vertically disposed conduit, a chamber to which the lower end of the conduit is secured as a source of forcing a draft of air through said conduit, a chute surmounting said chamber consisting of a lower case and an upper convergent spout having a discharge pipe continuing the conduit line to the atmosphere, a pair of oppositely arranged elongated strips secured marginally in the bottom of said case, a reticulated closed body resting upon said strips marginally so as to have its bottom spaced above the bottom of the case, and being spaced with its opposing ends from opposite walls of the case and arranged to present its reticulated top opposite to said spout, means giving access to the interior of the reticulated body, means opening said case



to give access to said means, and a right angular inner open terminal upon said conduit projecting supportedly into said case and into an adjacent part of the reticulated body to center the latter upon said strips and relatively to the walls of the case, whereby lint conveyed from said conduit into the case by means of said right angular open terminal is trapped in said body, while under influence of the forced draft of air in said conduit, the detergent is blasted out of the spout through said discharge pipe.

2,403,417
BOBBIN FOR USE IN SPINNING OR WEAVING
Christopher Van Deventer, Knoxville, Tenn., assignor to National Plastics, Inc., Knoxville, Tenn., a corporation of Tennessee
Application October 11, 1943, Serial No. 505,756
5 Claims. (Cl. 242—120)

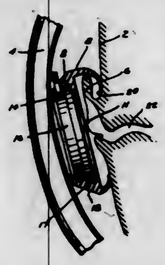


1. A bobbin for use in spinning and weaving, having a wood body and a tip thereof comprising a plastic shell covering the end of the bobbin and adhered thereto, the bobbin body having a reduced end fitting in the shell, the reduced end having a recess in its periphery and the shell having a projection extending into the recess.

2,403,418
EARPHONE SOCKET
John Volkmann, Cambridge, Mass., assignor to the United States of America, as represented by the Secretary of War
Application June 19, 1944, Serial No. 541,007
2 Claims. (Cl. 179—182)

1. An earphone socket for use in conjunction with steel helmets of the type used for military

equipment, comprising a body portion tapered to provide beveled edges to permit use inside a helmet, said body portion having an earphone receptacle formed by a partition dividing the body portion into two compartments, the remaining compartment being adapted to completely surround an ear and formed of sound insulating material, a resilient rolled edge extending elliptically around the inner compartment, said rolled



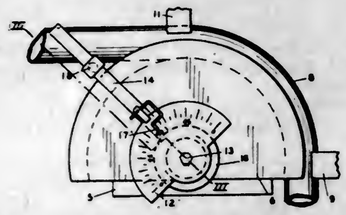
edge being sharply curved over itself to provide a compliant element to resiliently and lightly urge the earphone socket against the head, said rolled edge being spaced away from said partition a greater distance at the rear side of the socket than at the front side so that the socket is in an offset position similar to that of the ear whereby the socket is close to the ear canal without contacting the outer ear.

2,403,419
METHOD OF RECOVERING THE CONSTITUENTS OF SCRAP BI-METAL
Richard A. Wilkins and Edward S. Bunn, Rome, N. Y., assignors to Revere Copper and Brass Incorporated, New York, N. Y., a corporation of Maryland
Application April 15, 1943, Serial No. 483,142
8 Claims. (Cl. 75—63)



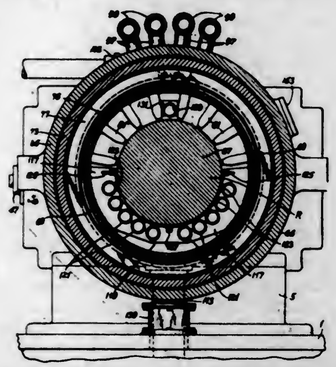
1. The method of separately recovering cuprous and ferrous constituents of scrap consisting of low carbon steel and associated copper or brass which comprises melting the scrap, enriching the molten ferrous constituent with carbon, silicon and manganese to cause it to contain at least about 2% carbon, at least about 1.5% silicon, and at least about 0.3% manganese, and separating ferrous and cuprous constituents of the scrap so treated by permitting them to stratify while in the molten condition at temperatures above the melting point of the carbon enriched ferrous constituent.

2,403,420
PROTRACTOR FOR PIPE BENDING MACHINES
Elijah N. Willingham, Santa Rosa, Calif.
Application February 24, 1944, Serial No. 523,759
1 Claim. (Cl. 153—46)



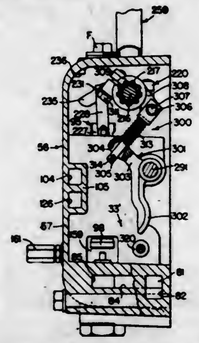
The combination with a pipe bending machine having an upstanding stub shaft, a protractor provided with indicia adjustably locked to said shaft and having its axis coinciding with the axis of said shaft; a curved forming die mounted on said shaft and having the axis of its curvature coinciding with the axis of said shaft and adapted to have a pipe bent thereagainst; a movable jaw engaging said pipe and adapted to bend a portion of said pipe about said die and an arm carried by said protractor, said arm having a roller engaging the side of said pipe next to said die and at a point always tangent to the face of said forming die projected from a point where the movable jaw faces the die.

2,403,421
ELECTROMAGNETIC APPARATUS
Martin P. Winther, Waukegan, Ill., assignor to Martin P. Winther, as trustee
Application March 12, 1945, Serial No. 582,301
18 Claims. (Cl. 188—104)



1. Apparatus of the class described comprising inner and outer relatively rotary members which are substantially radially spaced, flux-concentrating poles extending from one of the members toward the other and into close proximity with the latter, said poles being peripherally spaced throughout an arc over only upper portions of said inner member, a field coil in one of the members adapted to generate a flux field interlinking the members through said poles, axial conduit means located between said members and having openings directed against one of the members for flooding it with a liquid coolant, means for introducing coolant into said conduit means, the space between said members being sufficient to accommodate beneath the inner member a relatively large pool of coolant without the rotor dripping therein.

2,403,422
POWER LIFT
Wayne H. Worthington, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa
Application August 6, 1942, Serial No. 453,907
14 Claims. (Cl. 60—97)



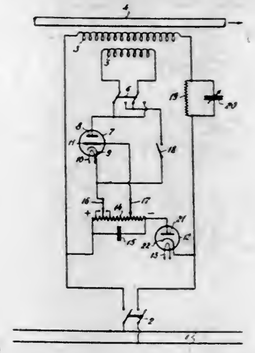
5. Control mechanism for a hydraulically operated device that includes two piston and cylinder units respectively connected with parts to be actuated, said mechanism including a valve box, a tubular shaft journaled in one wall of said valve box, a second shaft journaled in the opposite wall of said valve box, said shafts being in alignment, a third shaft extending through said tubular shaft and socketed in said second shaft, means connecting the latter with control valve means for one of said units for controlling the same independently of the other unit, means connecting said tubular shaft with control valve means for said other unit for controlling the latter, two means for operating said control valve means for said other unit, one connected to the outer end of said tubular shaft and the other connected to the inner end of said third shaft, and means at the outer end of said third shaft for operating said tubular shaft.

2,403,423
PAINT
Paul Zurcher, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
No Drawing. Application June 26, 1943, Serial No. 492,447
4 Claims. (Cl. 106—263)

1. A non-aqueous paint comprising a drying oil vehicle having the characteristics of forming a hard, dry elastic film after being applied to a surface, said vehicle having added thereto methyl dichlorostearate in amounts ranging from about .001 per cent to about 2.5 per cent of the paint composition, said paint also including a high flash point amine from the group consisting of triethanol amine, diethanol amine, triamyl amine, tributyl amine and aniline to reduce the skin forming tendency of the paint, said amine being present in amounts ranging from about 0.1 per cent to about 2.5 per cent of the paint composition.

2,403,424
DEMAGNETIZING APPARATUS
Theodore Zuschlag, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y., a corporation of New York
Application November 1, 1943, Serial No. 508,525
4 Claims. (Cl. 175—181)

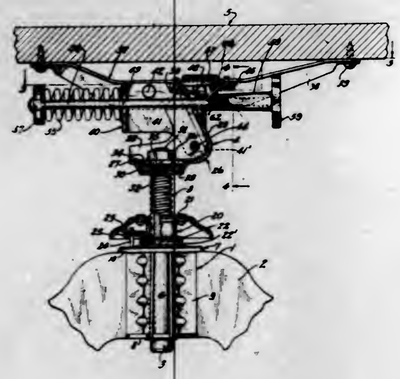
1. In apparatus for demagnetizing a magnetic body movable with respect to said apparatus, the combination which includes a demagnetizing coil connectible to a source of alternating current, said coil being disposable in inductive relation to said body, a neutralizing coil inductively related to said demagnetizing coil and disposable in inductive relation to said body, a rectifier tube having an anode, a control grid and a cathode, said coils being positioned to be in inductive relation simultaneously to the same portion of said body as said body moves with respect to said coils, a rectifier circuit for producing unidirectional neutralizing current in said neutralizing coil, said circuit including said neutralizing coil and a half-wave rectifier including the anode and cathode of said tube, said circuit being coupled to said source only by means of said inductive relation to said demagnetizing coil, whereby changes in the magnitude of alternating current in said demagnetizing coil resulting from variations in the magnetic effect of said body on said demagnetizing coil as said body passes through the field thereof automatically produce corresponding changes in said unidirectional current in said neutralizing coil, a second rectifier, a resistor connected in series with said second rectifier across said source, connections from the cathode and control grid of said half-wave rectifier tube to said resistor, whereby a bias potential derived from the second rectifier is impressed on said control grid, and means for adjusting said bias potential.



2,403,425
TILTABLE CHAIR
Harry W. Bolens, Port Washington, Wis., assignor, by mesne assignments, to The Seng Company, Chicago, Ill., a corporation of Illinois
Application February 16, 1942, Serial No. 431,109
4 Claims. (Cl. 155—77)

2. A chair iron comprising a spindle having a reduced and externally threaded upper end with an upwardly facing shoulder at the juncture of the main portion of the spindle and the reduced upper end thereof, a head-piece having a horizontal body plate provided with a depression formed with a central opening through which the reduced end of the spindle projects, a washer interposed between the shoulder of the spindle and the underside of the depressed portion of the body plate, a second annular washer fitted over the reduced end of the spindle and bearing against the floor of the depression, and a nut and lock washer coacting with the upper end of the spindle and with the second washer to secure the head piece in a position of rigid support on the spindle.

4. A chair comprising a tiltable element, elastic means for elastically resisting tilting of the element and manually adjustable means for varying the tension of the elastic means and including an adjustable abutment, a tensioning rod therefor, a hand nut cooperable with the tensioning rod, a fulcrum means for the tensioning rod comprising a fixed fulcrum block provided with trans-

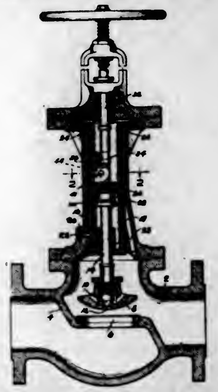


versely spaced seats, a cooperable tiltable fulcrum block carried by the tensioning rod and hardened steel balls permanently secured to the tiltable abutment block by the force of adhesion, the balls being located on the opposite sides of the tensioning rod and projecting beyond the tiltable fulcrum block and engaging in semi-spherical seats formed in the fixed fulcrum block.

2,403,426
METAL COATING PROCESS
Alfred Douty, Elkins Park, and Gerald C. Romig, Melrose Park, Pa., assignors to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application November 14, 1944, Serial No. 563,458
4 Claims. (Cl. 148—6.5)

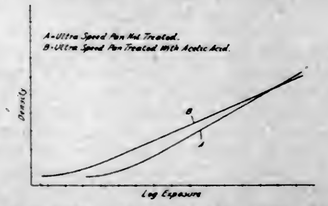
1. In the art of finishing ferrous metal surfaces, the method which includes treating the surface with a composition which consists essentially of an aqueous solution of both primary and secondary phosphates from the class which consists of alkali metals and ammonium, the pH of which lies between 4.7 and 6.5 and is greater than that corresponding to the mono-basic phosphate present alone and lower than that corresponding to the dibasic phosphate present alone, rinsing the surface so treated with a dilute aqueous solution containing chromic acid having a pH in the range 2.0 to 4.6, inclusive, and containing no more soluble salt than corresponds to the metal equivalent of 30 oz. of sodium dihydrogen phosphate per 100 gallons, drying the rinsed surface and then applying a siccative finishing coat to the dry surface.

2,403,427
VALVE MECHANISM
Oscar H. Ludeman, New York, N. Y., assignor to Skinner Engine Company, Erie, Pa., a corporation of Pennsylvania
Application January 27, 1944, Serial No. 519,857
6 Claims. (Cl. 137—139)



1. Valve mechanism comprising in combination a valve, a stem therefor, a piston slidably mounted on the valve stem, a spring for holding the piston in its outermost position on the stem, a latching member fulcrumed to said stem, means offset with respect to said fulcrum for connecting the latching member to said piston, a handwheel stem provided with a latching shoulder for engagement with said latching member to hold said valve off its seat, movement of said piston on said valve stem against the action of said spring, pivoting the latching member on the said fulcrum to disengage the latching member from the handwheel stem to permit said valve to close.

2,403,428
INTENSIFICATION OF THE LATENT IMAGE
Fritz W. Hellmut Mueller and James E. Bates, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application September 30, 1942, Serial No. 460,196
10 Claims. (Cl. 95—6)

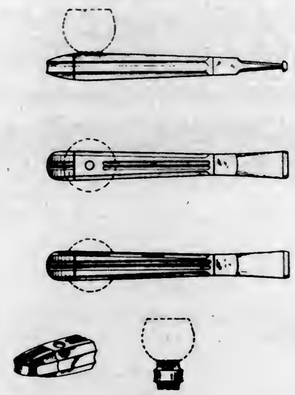


1. The process of intensifying the latent image of an exposed photographic silver halide emulsion which comprises contacting the exposed emulsions prior to development with a member of the group consisting of organic acid vapors containing at least traces of water and solutions of organic acids in volatile alcohols and volatile nonpolar solvents containing up to 1% of water and developing the latent image.

DESIGNS

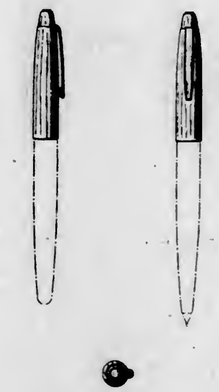
JULY 2, 1946

145,113
DESIGN FOR A SMOKING PIPE
Herman A. Bercu, Palo Alto, Calif.
Application June 2, 1945, Serial No. 119,867
Term of patent 7 years
Cl. D85—8)



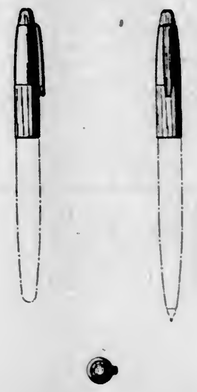
The ornamental design for a smoking pipe, as shown and described.

145,114
DESIGN FOR A FOUNTAIN PEN
Thomas F. Brinson, Atlanta, Ga., assignor to Scripto Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application March 19, 1945, Serial No. 118,575
Term of patent 14 years
Cl. D74—17)



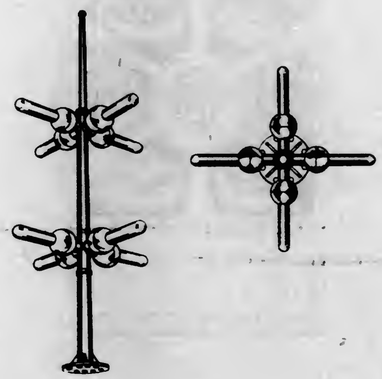
The ornamental design for a fountain pen, as shown and described.

145,115
DESIGN FOR A FOUNTAIN PEN
Thomas F. Brinson, Atlanta, Ga., assignor to Scripto Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application March 19, 1945, Serial No. 118,576
Term of patent 14 years
(Cl. D74—17)



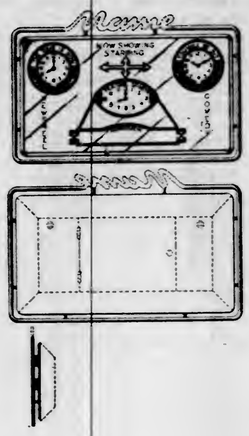
The ornamental design for a fountain pen, as shown and described.

145,116
DESIGN FOR AN ANTENNA
George H. Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 26, 1945, Serial No. 119,750
Term of patent 14 years
(Cl. D26—14)



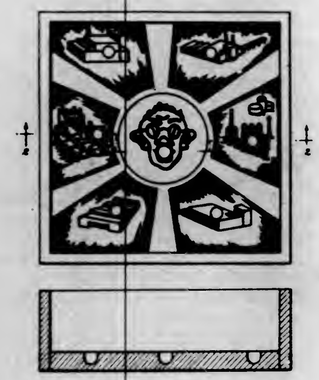
The ornamental design for an antenna, substantially as shown.

145,117
DESIGN FOR A THEATER SIGN
Richard L. Byrd, Dallas, Tex.
Application June 15, 1945, Serial No. 120,131
Term of patent 14 years
(Cl. D1—12)



The ornamental design for a theater sign, as shown and described.

145,118
DESIGN FOR A GAME BOARD
Ralph W. Byrer, Rockford, Ill.
Application August 11, 1945, Serial No. 121,382
Term of patent 3½ years
(Cl. D34—5)



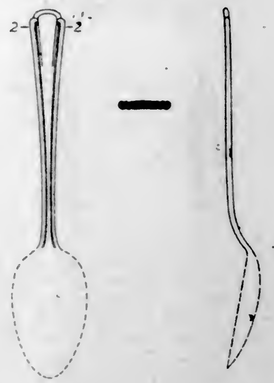
The ornamental design for a game board, substantially as shown and described.

145,119
DESIGN FOR A FABRIC
Ruth Sacks Caplin, New York, N. Y., assignor to Kaylon Incorporated, New York, N. Y., a corporation of New York
Application August 25, 1945, Serial No. 121,628
Term of patent 14 years
(Cl. D92—1)



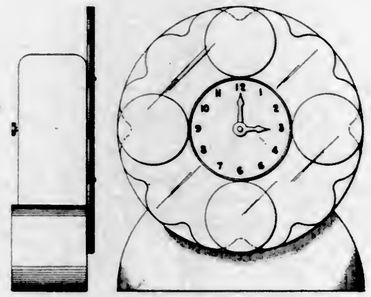
The ornamental design for a fabric, as shown and described.

145,120
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Edward J. Conroy, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application March 10, 1945, Serial No. 118,398
Term of patent 14 years
(Cl. D54—12)



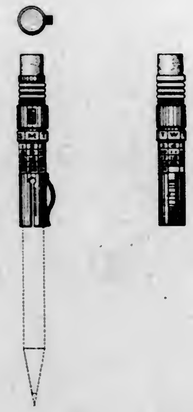
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

145,121
DESIGN FOR A COMBINED CLOCK AND KIDDIE SCHEDULE
Lola Cookston, St. Louis, Mo.
Application October 10, 1945, Serial No. 122,731
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a combined clock and kiddie schedule, as shown.

145,122
DESIGN FOR A COMBINED PENCIL AND CALENDAR
Lawrence B. Crain, Los Angeles, Calif.
Application September 25, 1945, Serial No. 122,325
Term of patent 14 years
(Cl. D74—5)



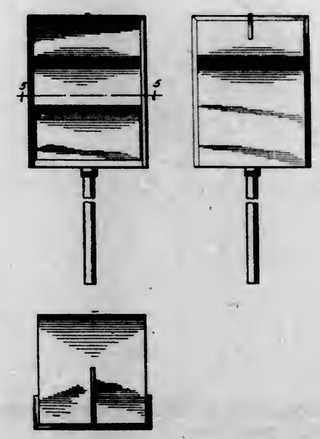
The ornamental design for a combined pencil and calendar, substantially as shown and described.

145,123
DESIGN FOR A COMBINED CIGARETTE TRAY AND HOLDER
Gertrude Dubey, New York, N. Y.
Application November 28, 1945, Serial No. 124,151
Term of patent 3½ years
(Cl. D85—2)

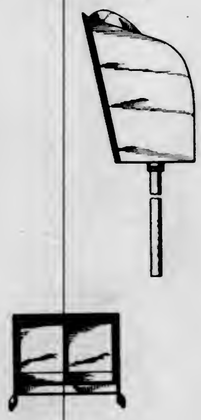


The ornamental design for a combined cigarette tray and holder, substantially as shown.

145,124
DESIGN FOR A WIND CONTROL WEATHER-PROOF FEED BOX OR SIMILAR ARTICLE
Carl Fenton, Arcadia, Fla.
Application March 7, 1945, Serial No. 118,307
Term of patent 14 years
(Cl. D12—2)

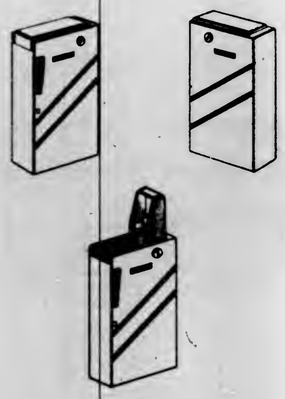


145,124—Continued



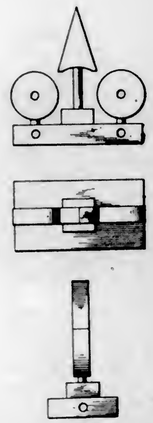
The ornamental design for a wind control weatherproof feed box or similar article, as shown.

145,125
DESIGN FOR A CIGARETTE LIGHTER
Robert Feurer, Jackson Heights, N. Y., assignor to Feurer Bros., New York, N. Y., a firm
Application October 9, 1945, Serial No. 122,680
Term of patent 14 years
(Cl. D48—27)



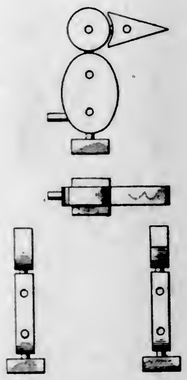
The ornamental design for a cigarette lighter, substantially as shown.

145,126
DESIGN FOR A FIGURE TOY
Robert C. Flynt, Winston-Salem, N. C.
Application October 9, 1945, Serial No. 122,674
Term of patent 3½ years
(Cl. D34—15)



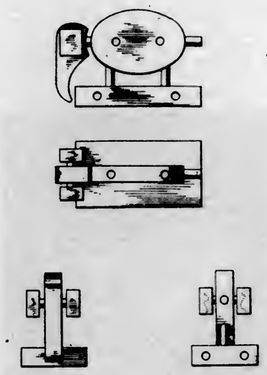
The ornamental design for a figure toy, as shown and described.

145,127
DESIGN FOR A FIGURE TOY
Robert C. Flynt, Winston-Salem, N. C.
Application October 9, 1945, Serial No. 122,677
Term of patent 3½ years
(Cl. D34—15)



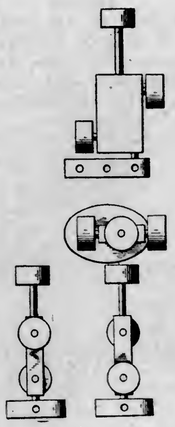
The ornamental design for a figure toy, as shown and described.

145,128
DESIGN FOR A FIGURE TOY
Robert C. Flynt, Winston-Salem, N. C.
Application October 9, 1945, Serial No. 122,678
Term of patent 3½ years
(Cl. D34—15)



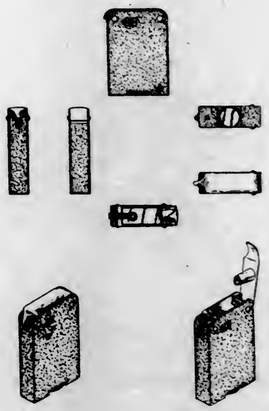
The ornamental design for a figure toy, as shown and described.

145,129
DESIGN FOR A FIGURE TOY
Robert C. Flynt, Winston-Salem, N. C.
Application October 9, 1945, Serial No. 122,679
Term of patent 3½ years
(Cl. D34—15)



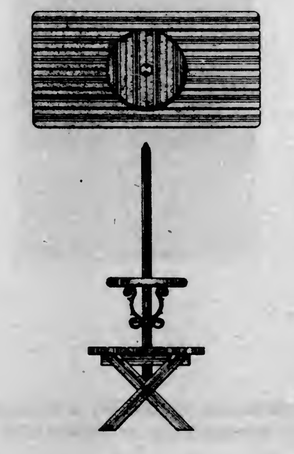
The ornamental design for a figure toy, as shown and described.

145,130
DESIGN FOR A CIGAR AND CIGARETTE LIGHTER
Jack Galter, Chicago, Ill.
Application October 12, 1945, Serial No. 122,804
Term of patent 14 years
(Cl. D48—27)



The ornamental design for a cigar and cigarette lighter, substantially as shown.

145,131
DESIGN FOR A TABLE
Frederick Grossi, Los Angeles, Calif.
Application June 8, 1945, Serial No. 119,957
Term of patent 14 years
(Cl. D33—14)



145,131—Continued



The ornamental design for a table, as shown.

145,132
DESIGN FOR A NAPKIN OR SIMILAR ARTICLE
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 27, 1946, Serial No. 127,985
Term of patent 14 years
(Cl. D59—2)



The ornamental design for a napkin or similar article, substantially as shown and described.

145,133
DESIGN FOR A PLACE MAT OR SIMILAR ARTICLE
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 27, 1946, Serial No. 127,987
Term of patent 14 years
(Cl. D59—2)



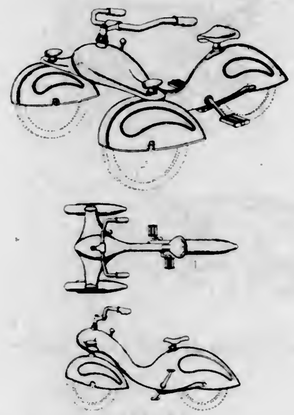
The ornamental design for a place mat or similar article, substantially as shown.

145,134
DESIGN FOR AN EARRING
Charles W. Hardy, New York, N. Y.
Application October 26, 1945, Serial No. 123,184
Term of patent 7 years
(Cl. D45—9)



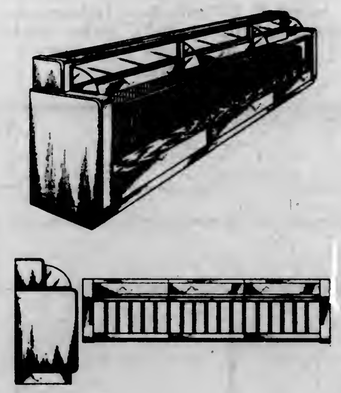
The ornamental design for an earring, substantially as shown.

145,135
DESIGN FOR A TRICYCLE
Arno Hecht, Babylon, N. Y., assignor to Henry Schirokauer, New York, N. Y.
Application October 25, 1945, Serial No. 123,160
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a tricycle, substantially as shown and described.

145,136
DESIGN FOR A SELF-SERVICE FROSTED FOOD FIXTURE
Cyrus F. Hoffman, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application October 22, 1945, Serial No. 123,080
Term of patent 14 years
(Cl. D80—11)



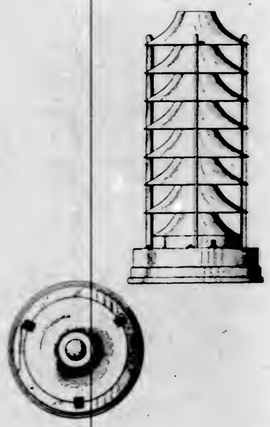
The ornamental design for a self-service frosted food fixture, substantially as shown.

145,137
DESIGN FOR AN ELECTRIC LAMP
John Lolli, Chicago Heights, Ill.
Application October 8, 1945, Serial No. 122,635
Term of patent 7 years
(Cl. D48—20)



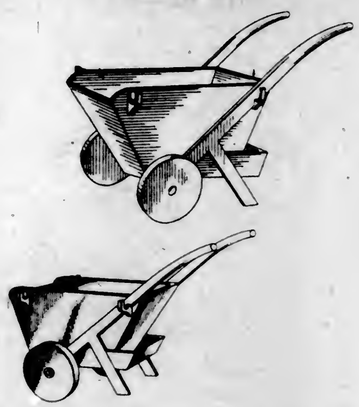
The ornamental design for an electric lamp, substantially as shown.

145,138
DESIGN FOR AN ELECTRIC LAMP
John Lolli, Chicago Heights, Ill.
Application October 8, 1945, Serial No. 122,636
Term of patent 7 years
(Cl. D48—20)



The ornamental design for an electric lamp, substantially as shown.

145,139
DESIGN FOR A UTILITY TRUCK
George H. Lowerre, Balboa Island, Calif.
Application December 14, 1944, Serial No. 116,894
Term of patent 3½ years
(Cl. D14—3)



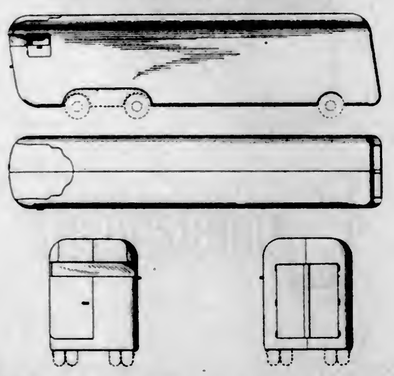
The ornamental design for a utility truck, as shown.

145,140
DESIGN FOR AN EARRING
Frank Morrow, Johnston, R. I.
Application July 18, 1945, Serial No. 120,793
Term of patent 3½ years
(Cl. D45—9)



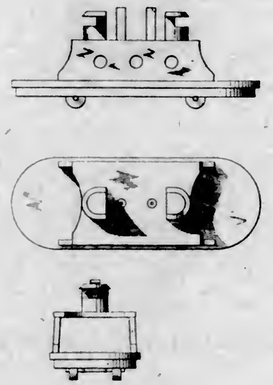
The ornamental design for an earring, substantially as shown.

145,141
DESIGN FOR A MOTOR VEHICLE
Joseph V. O'Neill, New Orleans, La.
Application June 23, 1945, Serial No. 120,300
Term of patent 3½ years
(Cl. D14—3)



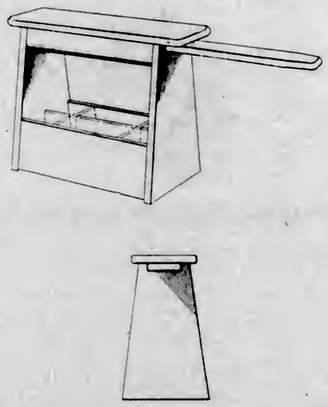
The ornamental design for a motor vehicle, as shown and described.

145,142
DESIGN FOR A TOY FERRY BOAT
George N. Overath, Belleville, N. J., assignor to Engineers, Incorporated, Irvington, N. J.
Application May 23, 1945, Serial No. 119,685
Term of patent 3½ years
(Cl. D34—15)



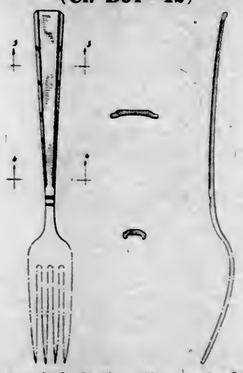
The ornamental design for a toy ferry boat, as shown.

145,143
DESIGN FOR A SHOESHINE BOX
Joseph T. Pearson, Jr., Huntingdon Valley, Pa.
Application December 8, 1945, Serial No. 124,511
Term of patent 7 years
(Cl. D58—12)



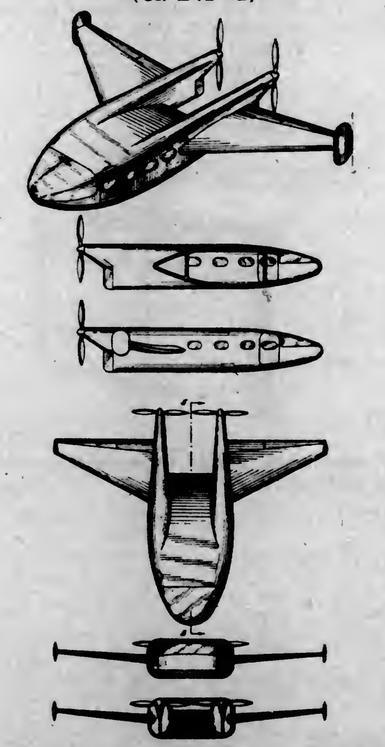
The ornamental design for a shoeshine box, substantially as shown and described.

145,144
DESIGN FOR A FORK OR OTHER ARTICLE OF FLATWARE
James Russell Price, Cranston, R. I., assignor to The Alvin Corporation, Providence, R. I., a corporation of New York
Application March 14, 1946, Serial No. 127,477
Term of patent 14 years
(Cl. D54—12)



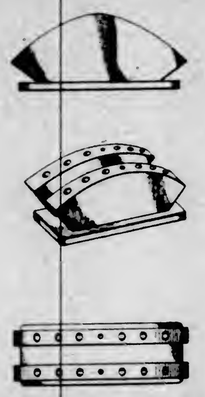
The ornamental design for a fork or other article of flatware, as shown.

145,145
DESIGN FOR AN AIRPLANE
Kermit R. Riegel, Mount Rainier, Md.
Application November 29, 1945, Serial No. 124,205
Term of patent 14 years
(Cl. D71—1)



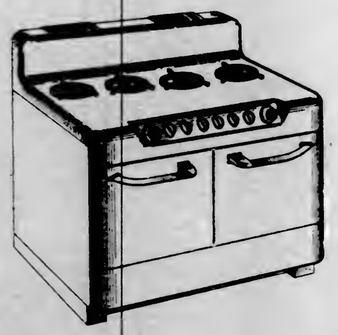
The ornamental design for an airplane, as shown.

145,146
DESIGN FOR A HOLDER FOR COCKTAIL OR SODA STIRRERS, PENCILS, OR THE LIKE
Manfred Rosenblatt, Kew Gardens, N. Y.
Application September 27, 1945, Serial No. 122,372
Term of patent 3½ years
(Cl. D44—24)



The ornamental design for a holder for cocktail or soda-stirrers, pencils, or the like, substantially as shown.

145,147
DESIGN FOR A COOKING STOVE
Albert E. Smallwood, Taunton, Mass., and Lurelle Guild, Noroton, Conn., assignors to Servel Inc., New York, N. Y., a corporation of Delaware
Application December 30, 1944, Serial No. 117,200
Term of patent 14 years
(Cl. D81—4)



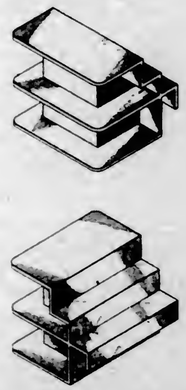
The ornamental design for a cooking stove, as shown and described.

145,148
DESIGN FOR A DISPLAY COUNTER
Ferdinand G. Welke, San Francisco, Calif., assignor to Shell Oil Company, Inc., San Francisco, Calif., a corporation of Virginia
Application October 15, 1945, Serial No. 122,831
Term of patent 7 years
(Cl. D80—9)



The ornamental design for a display counter, as shown.

145,149
DESIGN FOR A DISPLAY COUNTER
Ferdinand G. Welke, San Francisco, Calif., assignor to Shell Oil Company, Inc., San Francisco, Calif., a corporation of Virginia
Application October 15, 1945, Serial No. 122,832
Term of patent 7 years
(Cl. D80—9)



The ornamental design for a display counter, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Nutritive preparations. Serial No. 496,293; July 2. Class 6.
Abco, Inc., New York, N. Y., and San Antonio, Tex. Piece goods. Serial No. 491,225; July 2. Class 42.
Ace Hardware Mfg. Co., Inc., Huntington Park and Maywood, Calif. Overhead garage door fittings and parts. Serial No. 492,246; July 2. Class 13.
Adam, Ruth Couffer, doing business as Personality Products, Kansas City, Mo. Infant's knitted wear. Serial No. 481,565; July 2. Class 39.
Akhtar, Jamil, doing business as Taj Perfume Company, Detroit, Mich. Incense. Serial No. 476,897; July 2. Class 6.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and also Quackenbush Company, Paterson, N. J. Garment washing machines. Serial No. 493,711; July 2. Class 24.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and also Quackenbush Company, Paterson, N. J. Garment washing machines. Serial No. 493,713; July 2. Class 24.
American Brake Shoe Company, New York, N. Y. Publication. Serial No. 482,664; July 2. Class 38.
American & Foreign Rosary Company: *See*—
Gilooly, William J.
Aristocrat Leather Products, Inc., New York, N. Y. Compacts of face powder, rouge, lipsticks, etc. Serial No. 489,703; July 2. Class 6.
Arkansas Peanut Company: *See*—
Haynes, John E.
Arkwright, Incorporated, New York, N. Y. Wrist watch bracelets and watch chains. Serial No. 491,381; July 2. Class 28.
Bailey, Prihoda & Company, Kalamazoo, Mich. Estrogenic hormone skin cream. Serial No. 493,724; July 2. Class 6.
Baker, Walter, & Company, Inc., Dorchester, Mass. Candy. Serial No. 491,226; July 2. Class 46.
Basalt Rock Company, Inc., Napa, Calif. Concrete blocks. Serial No. 495,355; July 2. Class 12.
Belden, Perry, assignor to Rotomower, Inc., Lansdale, Pa. Lawn mowers. Serial No. 486,083; July 2. Class 23.
Bell Oil and Refining Co., Los Angeles, Calif. Asphalt. Serial No. 491,453; July 2. Class 12.
Belmont Formulas, Inc., Tampa, Fla. Powder for use in the treatment of athlete's foot, heat rash, etc. Serial No. 493,880; July 2. Class 6.
Berry-Lebeck Mfg. Co.: *See*—
Berry, Robert W.
Berry, Robert W., doing business as Berry-Lebeck Mfg. Co., California, Mo. Fish lures. Serial Nos. 495,360–1; July 2. Class 22.
Biddle-Cox Company, Inc., New York, N. Y. Luminous capsules. Serial No. 492,424; July 2. Class 50.
Bon Marche, The: *See*—
Allied Stores Corporation.
Bristol Laboratories Inc.: *See*—
Cheplin Laboratories Inc.
Bristol-Myers Company, New York, N. Y. Preparation for the care and treatment of the hair and scalp. Serial No. 480,735; July 2. Class 6.
Buenger, Clem, doing business as Highland Manufacturing Company, Cold Springs, Ky. Pyrophoric cigarette lighters. Serial No. 497,991; July 2. Class 34.
Cameo Doll Products Co.: *See*—
Kallus, Jos. L.
Cannon, Elaine, Batavia, Ill. Dolls. Serial No. 495,214; July 2. Class 22.
Carter, H. W., & Co., Limited, Bristol, England. Black currant syrup for making beverages. Serial No. 495,449; July 2. Class 45.
Catholic Foreign Mission Society of America, Inc., Ossining, N. Y. Periodical publication. Serial No. 492,031; July 2. Class 38.
Celanese Corporation of America, assignee: *See*—
Tubize Rayon Corporation.
Celanese Corporation of America, New York, N. Y. Reticular metallic and/or textile base. Serial No. 490,998; July 2. Class 50.
Celanese Corporation of America, New York, N. Y. Sheets, films, foils, etc. Serial No. 492,427; July 2. Class 1.
Cheplin Laboratories, Inc., Syracuse, N. Y., now by change of name, Bristol Laboratories Inc. Nose drops. Serial No. 481,210; July 2. Class 6.
Chicago Copper & Chemical Company, Blue Island, Ill. Chemical compound. Serial No. 494,306; July 2. Class 6.
China Overseas, New York, N. Y. Jewelry. Serial No. 494,259; July 2. Class 28.
Ciba Pharmaceutical Products, Inc., Summit, N. J. Medicinal preparation. Serial No. 499,116; July 2. Class 6.
Cohen, Goldman & Co., Inc., New York, N. Y. Men's, boys' and children's outer garments. Serial No. 489,040; July 2. Class 39.
Cole, Rex, Inc., Long Island City, N. Y. Field testing sets, turbo-supercharger regulators, and automatic engine controls, etc. Serial No. 483,714; July 2. Class 26.
Commonwealth Plywood Company Limited, Ste. Therese, Quebec, Canada. Plywood. Serial No. 496,430; July 2. Class 12.
Compañia Comercial E Industrial Nicolas Merino S. A., Havana, Cuba. Rum. Serial No. 478,950; July 2. Class 49.
Concordade Company, Inc., Providence, R. I. Coffee sirup and coffee extract. Serial No. 491,235; July 2. Class 46.
Consolidated Cosmetics, Chicago, Ill. Cigarettes and cigars. Serial No. 493,327; July 2. Class 17.
Consolidated Distilleries, Inc., East Taunton, Mass. Whiskey. Serial No. 487,357; July 2. Class 49.
Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes and structural parts thereof. Serial Nos. 486,243–4; July 2. Class 19.
Corn Products Refining Company, New York, N. Y. Sugar. Serial No. 497,372; July 2. Class 46.
Coro, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 494,033; July 2. Class 28.
Cosmos International Corporation, New York, N. Y. Dietetic salt. Serial No. 495,275; July 2. Class 46.
Cover Girl: *See*—
Revoc, Inc.
Cowles Detergent Company, The, Cleveland, Ohio. Calcium hypochlorite. Serial No. 495,867; July 2. Class 6.
Daird Traum Company, Incorporated: *See*—
Dritz-Traum Company, Inc.
Dental-Specialty Manufacturing Co., Inc., The, Denver, Colo. Handpiece lubricant and cleaner. Serial No. 493,433; July 2. Class 15.
Dey Brothers & Company: *See*—
Allied Stores Corporation.
Dritz-Traum Company, Inc., New York, N. Y., now by change of name Daird Traum Company, Incorporated. Bag pulls and clips. Serial No. 479,381; July 2. Class 40.
Dynamic Razor Blade Company: *See*—
Segelman, Jacob P.
Ellison & Spring, Inc., New York, N. Y. Table cloths, table covers, napkins, etc. Serial No. 492,828; July 2. Class 42.
Elmore Silver Company, Inc., The, Meriden, Conn. Silverware. Serial No. 495,961; July 2. Class 28.
Eloy Ranches, Inc., Eloy, Ariz. Fresh asparagus, fresh broccoli, fresh cabbage, etc. Serial Nos. 486,370–1; July 2. Class 46.
Empire Products Corporation, El Paso, Tex. Imitation grape punch concentrate. Serial No. 492,995; July 2. Class 45.
Fageol, William B., Kent, Ohio. Child's tricycle. Serial No. 494,546; July 2. Class 19.
Feboe Perfumers, New York, N. Y. Cosmetics. Serial No. 482,155; July 2. Class 6.
Freydberg Bros.-Strauss, Inc., New York, N. Y. Pressure adhesive tape dispensers. Serial Nos. 496,230–1; July 2. Class 2.
Frizzell, Robert E., Fort Worth, Tex. Prepared foods. Serial No. 485,477; July 2. Class 46.
G and G Super Foot Remedy: *See*—
Gisondi, August H.
Geller, Irving, New York, N. Y. Radio receiving and/or transmitting sets, television receiving and sending apparatus, etc. Serial No. 487,612; July 2. Class 21.
Gellman Manufacturing Company, Rock Island, Ill. Domestic sewing machines. Serial No. 494,322; July 2. Class 23.
General Aniline & Film Corporation, New York, N. Y. Photographic apparatus and accessories thereto. Serial No. 487,674; July 2. Class 26.
General Biochemicals, Inc., Chargrin Falls, Ohio. Alpha tocopherol, carotene, inositol, etc. Serial No. 496,956; July 2. Class 6.
General Desserts Corporation, New York, N. Y. Gelatin dessert. Serial No. 477,650; July 2. Class 46.
Gilooly, William J., doing business as American & Foreign Rosary Company, Central Falls, R. I. Rosaries. Serial No. 494,672; July 2. Class 28.
Gisondi, August H., doing business as G and G Super Foot Remedy, Schenectady, N. Y. Preparation for treating tender, tired, burning, etc., feet. Serial No. 484,890; July 2. Class 6.
Goodrich, B. F., Company, The, New York, N. Y., and Watertown, Mass. Synthetic resin material. Serial No. 494,060; July 2. Class 12.
Gougler, C. L., Keyless Lock Company, The, Kent, Ohio. Locks. Serial No. 496,505; July 2. Class 25.

Grosset & Dunlap, Inc., New York, N. Y. Printed books. Serial No. 488,897; July 2. Class 38.
Habitant Shops, Inc., Bay City, Mich. Corner trellises, lawn trellises, arbors, etc. Serial No. 496,506; July 2. Class 12.
Hale, Elwyn C., Fisheries and Estate of C. P. Hale, San Francisco, Calif. Canned fish, fish meal, salad dressing, etc. Serial No. 493,887; July 2. Class 46.
Hargold Associates, Inc., New York, N. Y. Pipes, cigar and cigarette holders, and tobacco pouches. Serial Nos. 493,555–6; July 2. Class 8.
Hause, Charles F., doing business as Chas. F. Hause Mfg. Co., Reseda, Calif. Faucet washers. Serial No. 488,266; July 2. Class 35.
Hause, Chas. F., Mfg. Co.: *See*—
Hause, Charles F.
Haynes, John E., doing business as Arkansas Peanut Company, Hot Springs, Ark. Salted peanuts. Serial No. 482,625; July 2. Class 46.
Heller, B., & Company, Chicago, Ill. Insecticide preparation. Serial No. 496,238; July 2. Class 6.
Highland Manufacturing Company: *See*—
Buenger, Clem.
Hilliard Corporation, The, Elmira, N. Y. Filtering apparatus. Serial No. 494,218; July 2. Class 31.
Hollander-Craft, Neptune, N. J. Wearing apparel and accessory racks. Serial No. 494,679; July 2. Class 32.
Hopkins Plastics, Inc., Baltimore, Md. Thread. Serial No. 494,326; July 2. Class 43.
Hughes Aircraft Company: *See*—
Hughes Tool Company.
Hughes Tool Company, doing business as Hughes Aircraft Company, Culver City, Calif. Small boats. Serial No. 492,441; July 2. Class 19.
Imre, Edith, and Company, New York, N. Y. Protective facial cream. Serial No. 495,171; July 2. Class 6.
International Pharmaceutical Corporation, Boston, Mass. Antiseptic solution. Serial No. 494,559; July 2. Class 6.
Irresistible, Inc., New York, N. Y. Lipsticks. Serial No. 496,312; July 2. Class 6.
Jaguar Cars Limited, Warwickshire, England. Automobiles, buses, motor vans, etc. Serial No. 492,201; July 2. Class 19.
Kallus, Jos. L., doing business as Cameo Doll Products Co., Port Allegany, Pa. Toy dolls. Serial No. 496,084; July 2. Class 22.
Kennedy, David E., Inc., Brooklyn, N. Y. Floor tiles. Serial No. 497,250; July 2. Class 12.
Kennerly, H. B., & Son, Nanticoke, Md. Canned fish and canned vegetables. Serial No. 495,173; July 2. Class 46.
Knoepfler Bros., Inc., New York, N. Y. Pyrophoric lighters. Serial No. 493,046; July 2. Class 34.
Kramer, Charles A., doing business as Southern California Fruit Products Company, La Crescenta and Los Angeles, Calif. Bottled lemon juice. Serial No. 482,748; July 2. Class 46.
Lancome S. A., Paris, France. Perfumes and rouges. Serial No. 491,849; July 2. Class 6.
Lanselle Parfumeur (S. A. R. L.), Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 492,146; July 2. Class 6.
Lederle Laboratories, Inc., New York, N. Y. DDT concentrate solution. Serial No. 496,915; July 2. Class 6.
Lederle Laboratories, Inc., New York, N. Y. Sulfadiazine-desoxyephedrine eyedrop preparation. Serial No. 496,916; July 2. Class 6.
Lederle Laboratories, Inc., New York, N. Y. Suspension of sulfadiazine. Serial No. 497,255; July 2. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. Serial Nos. 496,643–4; July 2. Class 6.
Lincoln Electronics Corporation, New York, N. Y. Electric phonographs. Serial No. 494,853; July 2. Class 21.
Marjan, Incorporated, Lancaster, Pa. Infants' and children's dresses. Serial No. 497,487; July 2. Class 39.
McCoy, Jones & Company, Inc., Chicago, Ill. Handknitting yarns. Serial No. 475,434; July 2. Class 43.
Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece. Serial No. 492,723; July 2. Class 42.
Mido Watch Company of America, Inc., assignee: *See*—
Societe Anonyme Mido.
Midwestern Beverage Laboratories, St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverages. Serial No. 495,250; July 2. Class 45.
Monte Carlo Wine Co., Inc., New Brunswick, N. J. Wines. Serial No. 484,492; July 2. Class 47.
Moran, R. J., Co., Boston, Mass. Vitamin tonic. Serial No. 496,257; July 2. Class 6.
Nardis Sports Wear, Dallas, Tex. Misses' sportswear. Serial No. 491,493; July 2. Class 39.
National Pectin Products Company, Chicago, Ill. Emulsifiers. Serial No. 493,504; July 2. Class 46.
Neilson Chemical Company, Detroit, Mich. Preparation comprising water, phosphoric acid, and a sodium secondary alcohol sulphate, etc. Serial No. 489,598; July 2. Class 6.
Neilson Chemical Company, Detroit, Mich. Chemical preparation for cleaning, etc. Serial No. 489,600; July 2. Class 6.
New England Extract Company, Boston, Mass. Coffee extracts. Serial No. 494,858; July 2. Class 46.
Northern Engineering Co., Milwaukee, Wis. Pyrophoric cigarette and cigar lighters. Serial No. 494,514; July 2. Class 34.
Odeon Theatres Limited, London, England. Confectionery. Serial No. 490,206; July 2. Class 46.
Oz Laboratories: *See*—
Reichman, Henry H.
Paramount Paper Products Co., Omaha, Nebr. Machines for dispensing initially rolled strips of adhesive sealing tape. Serial No. 494,111; July 2. Class 23.
Parfums Nattier Societe Anonyme, Paris, France. Perfumes, toilet waters, rouge, etc. Serial No. 489,483; July 2. Class 6.
Park Sherman Co., Inc., Chicago, Ill. Pyrophoric cigarette lighters. Serial No. 492,082; July 2. Class 34.
Parsons Company, The, Newton, Iowa. Ditching or trenching machines. Serial No. 484,497; July 2. Class 23.
Pearson, E. J., & Sons Limited, London, England. Leather wrist watch straps. Serial No. 485,591; July 2. Class 40.
Perry Bottling Company, Perry, Iowa. Non-alcoholic maltless beverage. Serial No. 492,579; July 2. Class 45.
Personality Products: *See*—
Adam, Ruth C.
Pipe Couplings, Inc., New York, N. Y. Flexible pipe couplings. Serial No. 495,623; July 2. Class 13.
Pipe Couplings, Inc., New York, N. Y. Flexible gaskets. Serial No. 495,624; July 2. Class 35.
Polycraft, Inc., New York, N. Y. Notebooks, pads, diaries, etc. Serial No. 490,852; July 2. Class 37.
Post, Frederick Company, The, Chicago, Ill. Light-sensitized light-transmitting base-sheets. Serial No. 495,024; July 2. Class 26.
Puritan Chemical Company, Atlanta, Ga. Chemical preparation. Serial No. 495,988; July 2. Class 6.
Purocaine, Inc., Philadelphia, Pa. Amino acids and amino acid mixtures. Serial Nos. 496,155–7; July 2. Class 6.
Purocaine, Inc., Philadelphia, Pa. Amino acids and amino acid mixtures. Serial No. 496,159; July 2. Class 6.
Quackenbush Company: *See*—
Allied Stores Corporation.
Rapid Sportswear Co., New York, N. Y. Ladies' raincoats. Serial No. 497,334; July 2. Class 39.
Reichman, Henry H., doing business as Oz Laboratories, New York, N. Y. Packaged prepared desserts. Serial No. 491,286; July 2. Class 46.
Revoc, Inc., New York, N. Y. Cigarette and cigar holders, pipe cleaners, pipes, and pipe racks. Serial No. 488,370; July 2. Class 8.
Revoc, Inc., doing business as Cover Girl, New York, N. Y. Dolls, games, toy paint books, etc. Serial No. 488,372; July 2. Class 22.
Reynolds Brothers, Niagara Falls, N. Y., and Senoia, Ga. Food products. Serial No. 496,519; July 2. Class 46.
Rice Conversion Limited, London, England. Rice. Serial Nos. 472,257–8; July 2. Class 46.
Rich Laboratories, Inc., Lebanon, Pa. Capsules. Serial No. 496,983; July 2. Class 6.
Rich-land Canning Corporation, Friesland, Wis. Canned peas and canned corn. Serial No. 481,804; July 2. Class 46.
Robbins Engineering Company, Highland Park, Mich. Sine plates. Serial No. 493,283; July 2. Class 26.
Rotomower, Inc., assignee: *See*—
Belden, Perry.
Sayers, Edwin M., Harrisburg, Pa. Heat exchange units. Serial No. 493,224; July 2. Class 6.
Schwarting, Julia, Hollywood, Fla. Articles of jewelry. Serial No. 495, 510; July 2. Class 28.
Sears, Roebuck and Co., Chicago, Ill. Umbrellas. Serial No. 471,105; July 2. Class 41.
Security Liquor Company, St. Louis, Mo. Whiskey. Serial No. 485,888; July 2. Class 49.
Segelman, Jacob P., doing business as Dynamic Razor Blade Company, Los Angeles, Calif. Razor blades. Serial No. 487,215; July 2. Class 23.
Simons & French Company, Incorporated, Sacramento, Calif., and New York, N. Y. Fresh deciduous fruits. Serial No. 496,991; July 2. Class 46.
Societe Anonyme Mido, Bienne, Switzerland, assignor to Mido Watch Company of America, Inc., New York, N. Y. Watches, chronometers, watch movements, etc. Serial No. 459,380; July 2. Class 27.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricating oils and greases. Serial No. 493,628; July 2. Class 15.
Solar Aircraft Company, San Diego, Calif. Aircraft heaters. Serial No. 482,510; July 2. Class 34.
Southern California Fruit Products Company: *See*—
Kramer, Charles A.
Southern Comfort Corporation, St. Louis, Mo. Liqueur. Serial No. 491,891; July 2. Class 49.
Spiegel, Inc., Chicago, Ill. Linoleum. Serial No. 492,288; July 2. Class 20.
Sponge Rubber Products Company, The, Shelton, Conn. Material used as cushioning supports and fillers. Serial No. 495,767; July 2. Class 32.
Squibb, E. R., & Sons, New York, N. Y. Antibacterial preparations. Serial No. 493,631; July 2. Class 6.

Star Brush Manufacturing Co. Inc., Boston, Mass. Paint brushes. Serial No. 494,412; July 2. Class 29.
Syracuse Ornamental Co., New York, N. Y. Brush and comb sets, combs, ornamental pins, etc. Serial No. 490,982; July 2. Class 40.
Taj Perfume Company: *See*—
Akhtar, Jamil.
Tallman-McCluskey Fabrics Co., St. Louis, Mo. Wicks. Serial No. 492,404; July 2. Class 34.
Theilman, Milton R., Cincinnati, Ohio. Storm sash. Serial No. 493,936; July 2. Class 12.
Thompson, Ebenezer Frank, Titusville, Pa. Medicinal preparation. Serial No. 491,177; July 2. Class 6.
Tubize Rayon Corporation, assignor to Celanese Corporation of America, New York, N. Y. Rayon yarns. Serial No. 492,595; July 2. Class 43.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework yarns. Serial No. 493,155; July 2. Class 43.
Ung, Tom, doing business as United China Trading Company, Los Angeles, Calif. Hair oil, hair pomade, hair tonic, etc. Serial No. 496,286; July 2. Class 6.
Union Oil Company of California, Los Angeles, Calif. Organic hydroperoxides. Serial No. 497,684; July 2. Class 6.
United Advertising Corporation, New Haven, Conn. Charcoal broilers. Serial No. 492,600; July 2. Class 34.
United China Trading Company: *See*—
Ung, Tom.
United States Time Corporation, The, Waterbury, Conn. Watches and clocks. Serial No. 488,877; July 2. Class 27.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 497,143; July 2. Class 6.
Venn, Louey, of London, Inc., Washington, D. C. Eau de cologne. Serial No. 490,156; July 2. Class 6.
Venn, Louey, of London, Inc., Washington, D. C. Toilet water. Serial No. 490,157; July 2. Class 6.
Vicellio, Dan, Chicago, Ill. Non-alcoholic, non-cereal, maltless, carbonated and non-carbonated beverages. Serial No. 496,288; July 2. Class 45.
Victory Soap & Chemical Co., Inc., New York, N. Y. Chemical cleaning preparation. Serial No. 487,230; July 2. Class 4.
Vulcan Iron Works Company, The, Denver, Colo. Portable power operated saw. Serial No. 494,993; July 2. Class 23.
Walker Vitamin Products, Inc., Mt. Vernon, N. Y. Capsules. Serial No. 499,028; July 2. Class 6.
Weissberg, Harry E., Los Angeles, Calif. House and camp trailers. Serial No. 486,838; July 2. Class 19.
West Foods: *See*—
West Mushroom Company.
West Mushroom Company, also doing business as West Foods, Salem, Oreg. Canned mushrooms. Serial No. 497,639; July 2. Class 46.
Western Trail Company, Portland, Oreg. Lawn and party room furniture. Serial No. 488,631; July 2. Class 32.
Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid resistor compound. Serial No. 494,881; July 2. Class 21.
Wheeler Paper Corporation, Albany, N. Y. Paper towels. Serial No. 493,523; July 2. Class 37.
Wolverine Manufacturing Company, Berrien Springs, Mich. Toy wagons, toy sleds, etc. Serial No. 495,926; July 2. Class 22.
Worthman, Irving, Brooklyn, N. Y. Toilet waters, colognes, perfumes, etc. Serial No. 483,406; July 2. Class 6.
Zeidman and Lieberstein, Brooklyn, N. Y. Powder cleaning compound. Serial No. 483,710; July 2. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

A. B. T. Manufacturing Corp., Chicago, Ill. Coin slides for coin-operated amusement devices and machines. 422,051; July 2; Serial No. 477,678; published Apr. 16, 1946. Class 22.
Abercrombie & Fitch Company: *See*—
Von Lengerke & Detmold.
Abraham & Straus, to Abraham & Straus, Inc., Brooklyn, N. Y. Gloves. 49,701; re-renewed Feb. 13, 1946. O. G. July 2. Class 39.
Abraham & Straus, Inc.: *See*—
Abraham & Straus.
Agency Paper Company, New York, N. Y. Air mail paper, air mail envelopes, printing paper, etc. 422,050; July 2; Serial No. 476,489; published Apr. 16, 1946. Class 37.
Albermarle Paper Manufacturing Company, The, Richmond, Va. Wrapping paper. 210,429; renewed Mar. 16, 1946. O. G. July 2. Class 37.
Alien Property Custodian: *See*—
Mulhens & Kropff.
Aluminum Company of America, Pittsburgh, Pa. Aluminum and aluminum alloys. 215,544; renewed July 20, 1946. O. G. July 2. Class 14.
Aluminum Industries, Inc.: *See*—
Permite Piston Co.
American Can Company: *See*—
Beautébox, Inc.
American Chicle Company: *See*—
American Chicle Co.
Bon-Bon Company.
American Chicle Co., New York, to American Chicle Company, Long Island City, N. Y. Chewing-gum. 54,506; re-renewed June 26, 1946. O. G. July 2. Class 46.
American Fruit Growers Incorporated, Wilmington, Del., and Pittsburgh, to American Fruit Growers Incorporated, Pittsburgh, Pa. Fresh citrous fruits, fresh deciduous fruits, fresh berries, etc. 212,033; renewed Apr. 27, 1946. O. G. July 2. Class 46.
American Hoist & Derrick Co.: *See*—
American Hoist & Derrick Company.
American Hoist & Derrick Company, to American Hoist & Derrick Co., St. Paul, Minn. Rope-clips. 50,804; re-renewed Apr. 3, 1946. O. G. July 2. Class 13.
American Lead Pencil Company: *See*—
American Lead Pencil Co.
American Lead Pencil Co., New York, N. Y., to American Lead Pencil Company, Hoboken, N. J. Lead-pencils. 51,414; re-renewed Apr. 17, 1946. O. G. July 2. Class 37.
American Shearer M'f'g Co., Nashua, N. H. Hair and wool clippers and their parts. 55,032; re-renewed Aug. 7, 1946. O. G. July 2. Class 23.
Am-Rus Music Agency, Inc., New York, N. Y. Sheet music and music books. 422,078; July 2; Serial No. 488,844; published Apr. 16, 1946. Class 38.
Anderson Company, The, Gary, Ind. Windshield wiper arms and windshield wiper blades. 422,112; July 2. Class 19.
Appleford Counter Check Book Co., Limited, The, to Appleford Paper Products Limited, Hamilton, Ontario, Canada. Account forms, bookkeeping blanks, counter check books, etc. 205,932; renewed Nov. 17, 1945. O. G. July 2. Class 37.
Appleford Paper Products Limited: *See*—
Appleford Counter Check Book Co., The.
Arabol Mf'g Co., The, New York, N. Y. Turkey-red oil, also called "soluble oil" and "soluble grease." 51,416; re-renewed Apr. 17, 1946. O. G. July 2. Classes 4, 6, and 15.
Arabol Mf'g Co., The, New York, N. Y. Turkey-red oil, also called "soluble oil" and "soluble grease." 54,806; re-renewed July 31, 1946. O. G. July 2. Classes 4, 6, and 15.
Arabol Mf'g Co., The, New York, N. Y. Liquid and dry adhesives. 213,215; renewed May 25, 1946. O. G. July 2. Class 5.
Artex-Green Corporation, New York, N. Y. Venetian blinds. 422,096; July 2; Serial No. 491,149; published Apr. 16, 1946. Class 32.
Asphalt Cold Mix Limited, England, assignor to Asphalt Cold Mix (1925) Limited, to The Flintkote Company, New York, N. Y. Bituminous emulsions. 213,936; renewed June 8, 1946. O. G. July 2. Class 12.
Asphalt Cold Mix Limited, England, assignor to Asphalt Cold Mix (1925) Limited, to The Flintkote Company, New York, N. Y. Bituminous paints. 216,439; renewed Aug. 10, 1946. O. G. July 2. Class 16.
Asphalt Cold Mix (1925) Limited, assignee: *See*—
Asphalt Cold Mix Limited.
Associated Bearings Company, Kansas City, Mo. Ball, roller, and plain bearings. 422,117; July 2. Class 23.
Balicer, Morris, New York, N. Y. Men's jewelry. 422,079; July 2; Serial No. 488,949; published Apr. 9, 1946. Class 28.
Barclay Hat Co., Cleveland, Ohio. Men's and boys' hats and caps. 422,064; July 2; Serial No. 484,077; published Nov. 13, 1945. Class 39.
Beautébox, Inc., to American Can Company, New York, N. Y. Plain and decorated metallic art boxes and containers. 210,211; renewed Mar. 9, 1946. O. G. July 2. Class 2.
Bell & Zoller Coal Company: *See*—
Blanchard, Charles N.
Benrus Watch Company, New York, N. Y. Watches. 422,103; July 2. Class 27.
Berry Growers Packing Co., The, to Gresham Berry Growers, Gresham, Oreg. Canned berries. 212,276; renewed Apr. 27, 1946. O. G. July 2. Class 46.
Blancard & Co., Inc., Newark, N. J., to Blancard & Co., Inc., New York, N. Y. Wedding rings. 214,411; renewed June 22, 1946. O. G. July 2. Class 28.
Blancard & Co., Inc., Newark, N. J., to Blancard & Co., Inc., New York, N. Y. Finger rings. 214,412; renewed June 22, 1946. O. G. July 2. Class 28.
Blanchard, Charles N., Binghamton, N. Y., to Bell & Zoller Coal Company, Chicago, Ill. Coal. 215,088; renewed July 13, 1946. O. G. July 2. Class 1.

Bon-Bon Company, New York, to American Chicle Company, Long Island City, N. Y. Chewing gum. 54,463; re-renewed June 26, 1946. O. G. July 2. Class 46.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y., to The Boss Manufacturing Company, Kewanee, Ill. Gloves and mittens. 210,819; renewed Mar. 23, 1946. O. G. July 2. Class 39.

Bradford Dyers' Association, Limited, The, Bradford, England. Cotton piece goods. 210,121; renewed Mar. 9, 1946. O. G. July 2. Class 42.

Bradford Dyers' Association, Limited, Bradford, England. Sateens and venetians. 213,001; renewed May 18, 1946. O. G. July 2. Class 42.

Bradham, Caleb D., New Bern, N. C., to The Knox Company, Los Angeles, Calif. Liquid preparation. 51,314; re-renewed Apr. 10, 1946. O. G. July 2. Class 6.

Braun & Fitts, Inc., to John F. Jelke Company, Chicago, Ill. Butterin or oleomargarin. 51,119; re-renewed Apr. 3, 1946. O. G. July 2. Class 46.

Brillo Manufacturing Company, Brooklyn, N. Y. Soaps, cleaning, scouring, and polishing wads, pads, etc. 213,047; renewed May 18, 1946. O. G. July 2. Class 4.

British West Indies Co., New York, N. Y. Women's and misses' boots and shoes. 422,091; July 2; Serial No. 490,283; published Mar. 26, 1946. Class 39.

Buffalo Septic Tank Company: *See*—
Sutter, Harold R.

Burnitol Manufacturing Co.: *See*—
Eustis, J. P., Mfg. Co.

Buxton, Incorporated, Springfield, Mass. Purses and pocketbooks. 214,165; renewed June 15, 1946. O. G. July 2. Class 3.

Buxton, Incorporated, Springfield, Mass. Purses and pocketbooks. 214,189; renewed June 15, 1946. O. G. July 2. Class 3.

Carpenter, J. M., Tap & Die Co., The, Pawtucket, R. I., to Greenfield Tap and Die Corporation, Greenfield, Mass. Taps, dies, reamers, etc. 50,950; re-renewed Apr. 3, 1946. O. G. July 2. Class 23.

Carver File Company, to Delta File Works, Inc., Philadelphia, Pa. Files. 49,706; re-renewed Feb. 13, 1946. O. G. July 2. Class 23.

Carver File Company, to Delta File Works, Inc., Philadelphia, Pa. Files and rasps. 50,089; re-renewed Mar. 6, 1946. O. G. July 2. Class 23.

Carver File Company, to Delta File Works, Inc., Philadelphia, Pa. Files and rasps. 50,538; re-renewed Mar. 20, 1946. O. G. July 2. Class 23.

Carver File Company, to Delta File Works, Inc., Philadelphia, Pa. Files and rasps. 54,129; re-renewed June 19, 1946. O. G. July 2. Class 23.

Cellucotton Products Company, Neenah, Wis., to International Cellucotton Products Company, Chicago, Ill. Absorbent pads or sheets. 215,866; renewed July 27, 1946. O. G. July 2. Class 44.

Chicago Mail Order Company, Chicago, Ill. Women's and misses' dresses, skirts, waists, etc. 210,931; renewed Mar. 30, 1946. O. G. July 2. Class 39.

Chicago Mill and Lumber Company, Chicago, Ill. Wood and paper veneer board. 422,066; July 2; Serial No. 484,878; published Apr. 9, 1946. Class 12.

Chisholm-Ryder Company, Incorporated: *See*—
Niagara Metal Stamping Corporation.

Cleveland Heater Company, The, Cleveland, Ohio. Metal pipe fittings. 215,507; renewed July 20, 1946. O. G. July 2. Class 13.

Colfax Fruit Growers Association, Colfax, Calif. Fresh deciduous fruits. 214,637; renewed June 29, 1946. O. G. July 2. Class 46.

Colorado Potato Flake and Manufacturing Company, Denver, Colo., to General Mills, Inc., Minneapolis, Minn. Shoe-string or French-fried potatoes. 210,217; renewed Mar. 9, 1946. O. G. July 2. Class 46.

Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Pistols. 52,903–4; re-renewed May 22, 1946. O. G. July 2. Class 9.

Columbian Steel Tank Company, Kansas City, Mo. Scalding vats, waste cans, delivery baskets and silo spouts. 422,052; July 2; Serial No. 478,495; published Apr. 16, 1946. Class 2.

Compania de Distilleries Internationales, Inc., Bayamon, P. R. Rum. 422,113; July 2. Class 49.

Concord Radio Corporation, Chicago, Ill. Cameras and parts thereof. 422,126; July 2. Class 26.

Conde Nast Publications, Inc., The, New York, N. Y. Monthly publication. 214,992; renewed July 6, 1946. O. G. July 2. Class 38.

Consolidated Battery Company, Buffalo, N. Y., and Philadelphia, Pa., to National Battery Company, St. Paul, Minn. Electric batteries. 211,878; renewed Apr. 20. 1946. O. G. July 2. Class 21.

Continental Steel Corporation: *See*—
Kokomo Steel & Wire Co.

Copley Press, Inc., The: *See*—
Illinois State Journal.

Cream Top Bottle Corporation, Albany, N. Y. Glass Milk Bottles. 215,975; renewed Aug. 3, 1946. O. G. July 2. Class 33.

Davis, Kins C., Douglas, Ga., to Kins C. Davis, Valdosta, Ga. Remedy for purifying blood, pills, and liniment; etc. 209,907; renewed Mar. 2, 1946. O. G. July 2. Class. 6.

Delta File Works, Inc.: *See*—
Carver File Company.

Dement, Wallace I., Jackson, Miss. Blank forms. 422,076; July 2; Serial No. 487,704; published Apr. 16, 1946. Class 37.

Dermatine Company Limited, London, England. Rubber substitutes. 50,018; re-renewed Feb. 27, 1946. O. G. July 2. Class 1.

Dohrmann Hotel Supply Co., San Francisco, Calif. Crockery and chinaware. 422,075; July 2; Serial No. 487,603; published April 2, 1946. Class 30.

Dri-Well Co., The: *See*—
Gale, Benjamin T.

Drygas, Cristy, Products, Inc., Worcester, Mass. Liquid chemical adapted to be added to gasoline, and to lubricating or fuel oils. 422,140; July 2. Class 6.

Duchess Printing and Publishing Co., The, Limited, Toronto, Ontario, Canada. Publication. 422,058; July 2; Serial No. 482,240; published Apr. 2, 1946. Class 38.

Du Pont, E. I. de Nemours and Company, Wilmington, Del. Penetrating, lubricating composition. 422,080; July 2; Serial No. 489,392; published Mar. 26, 1946. Class 15.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Column or section in a periodical publication. 422,085; July 2; Serial No. 489,662; published April 2, 1946. Class 38.

Edwards, J., & Co., Philadelphia, Pa. Leather shoes. 422,118; July 2. Class 39.

Edwards, J., & Co., Philadelphia, Pa. Leather shoes. 422,123; July 2. Class 39.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquer. 209,734; renewed Mar. 2, 1946. O. G. July 2. Class 16.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer enamels, and lacquer thinners. 210,862–3; renewed Mar. 23, 1946. O. G. July 2. Class 16.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer enamels, and lacquer thinners. 213,916-18; renewed June 8, 1946. O. G. July 2. Class 16.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquers, lacquer enamels, and lacquer thinners. 214,396; renewed June 22, 1946. O. G. July 2. Class 16.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y. Lacquer. 216,076; renewed Aug. 3, 1946. O. G. July 2. Class 16.

El Campo Rice Milling Company, El Campo, Tex. Laying mash. 214,123; renewed June 15, 1946. O. G. July 2. Class 46.

Elevator Supplies Company, Inc.: *See*—
Elevator Supplies Co., Inc.

Elevator Supplies Co., Inc., Hoboken, to Elevator Supplies Company, Inc., Perth Amboy, N. J. Annunciators. 210,391; renewed Mar. 16, 1946. O. G. July 2. Class 21.

Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.

Emanuel & Co., Los Angeles, Calif. Ladies' and children's hats, dresses, blouses, vests, etc. 422,071; July 2; Serial No. 487,314; published Mar. 26, 1946. Class 39.

Ems Brewing Co., East St. Louis, Ill. Beer. 422,120. July 2. Class 48.

Endicott Johnson Corporation, Endicott, N. Y. Men's shoes. 422,056; July 2; Serial No. 480,893; published Mar. 19, 1946. Class 39.

Endicott Johnson Corporation, Endicott, N. Y. Girls' and women's slippers. 422,095; July 2; Serial No. 491,074; published Mar. 26, 1946. Class 39.

Epstein, M., & Bro., to Monarch Watch Co., Inc., New York, N. Y. Watches, parts of watches, and watch cases. 215,783; renewed July 27, 1946. O. G. July 2. Class 27.

Eskimo Pie Corporation, Louisville, Ky., to Eskimo Pie Corporation, Bloomfield, N. J. Candy covering for frozen confections. 215,660; renewed July 20, 1946. O. G. July 2. Class 46.

Eustis, J. P., Mfg. Co., Portland, Maine, to Burnitol Manufacturing Co., Boston, Mass. Holders for soap, sponges, brushes, etc. 54,753; re-renewed June 26, 1946. O. G. July 2. Class 13.

Excelsior Needle Company, to The Torrington Company, Torrington, Conn. Sewing-machine needles. 52,659–60; re-renewed May 15, 1946. O. G. July 2. Class 23.

Excelsior Needle Company, to The Torrington Company, Torrington, Conn. Needles. 53,544; re-renewed June 5, 1946. O. G. July 2. Classes 23 and 40.

Excelsior Needle Company, to The Torrington Company, Torrington, Conn. Knitting-machine needles. 54,918; re-renewed Aug. 7, 1946. O. G. July 2. Class 23.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column devoted to the reprinting of inane, pointless or ludicrous personal items. 422,106; July 2. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column devoted to the publication of letters from readers written in light vein. 422,107–9; July 2. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column devoted to the publication of letters from readers written in petulant vein. 422,110; July 2. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column devoted to the reprinting of items which have appeared in other publications. 422,111; July 2. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column devoted to the reprinting from other publications of statements made with serious purport, etc. 422,116; July 2. Class 38.

Farmco, Incorporated, Jersey City, N. J., and New York, N. Y. Electric refrigerators. 422,089; July 2; Serial No. 490,110; published Apr. 16, 1946. Class 31.

Farm Implement News Company, Chicago, Ill. Periodical publications. 422,139; July 2. Class 38.

Feinbloom Contact Lenses, Inc., New York, N. Y. Contact lenses. 422,101; July 2; Serial No. 492,372; published Apr. 9, 1946. Class 26.

Fischer, Chas. Spring Co., The, Brooklyn, N. Y. Radio accessories. 216,260; renewed Aug. 10, 1946. O. G. July 2. Class 21.

Flex-O-Glass Manufacturing Co.: *See*—
Warp, Harold.

Flintkote Company, The: *See*—
Asphalt Cold Mix Limited.
Pioneer Paper Company.
Richardson Company, The.

Fort Schuyler Knitting Co., Utica, N. Y. Knitted union suits and underwear. 215,836; renewed July 27, 1946. O. G. July 2. Class 39.

Fostoria Glass Company, Moundsville, W. Va. Table glassware. 216,107; renewed Aug. 3, 1946. O. G. July 2. Class 33.

Franklin Simon & Co., Inc., New York, N. Y. Men's and boys' house coats, waistcoats, etc., women's, girls', and misses' dresses, tailored suits, etc., and men's, women's, misses', and boys' sweaters, mufflers, hosiery, etc. 210,160; renewed Mar. 9, 1946. O. G. July 2. Class 39.

Gale, Benjamin T., doing business as The Dri-Well Co., St. Paul, Minn., to Monroe Chemical Company, Quincy, Ill. Perspiration deodorant and remedy. 214,967; renewed July 6, 1946. O. G. July 2. Class 6.

Geis Mills: *See*—
Geis-Price Elevator Co., Inc.

Geis-Price Elevator Co., Inc., to Geis Mills, Enid, Okla. Chicken feed. 214,883; renewed July 6, 1946. O. G. July 2. Class 46.

Gendron Wheel Co., to Hettrick Manufacturing Company, The, Toledo, Ohio. Children's express-wagons, patrol-wagons, hook-and-ladder wagons, etc. 54,103; re-renewed June 19. 1946. O. G. July 2. Class 22.

General Beverage & Products Co.: *See*—
Gordon, William J.

General Mills, Inc.: *See*—
Colorado Potato Flake and Manufacturing Company.

Gibbs & Company, Incorporated: *See*—
Gibbs Preserving Company of Baltimore City.

Gibbs Preserving Company of Baltimore City, to Gibbs & Company, Incorporated, Baltimore, Md. Canned oysters. 54,167; re-renewed June 19, 1946. O. G. July 2. Class 46.

Gill, Jimmie, Jacksonville, Fla. Fresh citrus fruits. 422,060; July 2; Serial No. 482,376; published Apr. 2, 1946. Class 46.

Gloversville Knitting Co., Gloversville, N. Y. Knitted gloves. 422,072; July 2; Serial No. 487,360; published Mar. 26, 1946. Class 39.

Gordon, William J., doing business as General Beverage & Products Co., Lancaster, Ohio. Malt extract and malt hop extracts. 215,849; renewed July 27, 1946. O. G. July 2. Class 46.

Gospel Trumpet Company, Anderson, Ind. Religious books, tracts, pamphlets, etc. 422,047; July 2; Serial No. 467,522; published Apr. 2, 1946. Class 38.

Gray, Percy, Jefferson, Iowa. Hot-water-supply tanks. 215,541; renewed July 20, 1946. O. G. July 2. Class 13.

Great Lakes Mink Association, Salem, Wis. Fur pelts. 422,133; July 2. Class 1.

Greenfield Tap and Die Corporation: *See*—
Carpenter, J. M., Tap & Die Co., The.

Gresham Berry Growers: *See*—
Berry Growers Packing Co., The.

Haffenreffer & Co.: *See*—
New England Brewing Co.

Haffenreffer & Co., Inc.: *See*—
New England Brewing Co.

Harrison, Robert, New York, N. Y. Pictorial periodical. 422,094; July 2; Serial No. 490,659; published Apr. 16, 1946. Class 38.

Hershey, Lloyd B., doing business as The Safe Padlock and Hardware Company, to The Safe Padlock & Hardware Company, Lancaster, Pa. Locks and latches and keys therefor. 214,583; renewed June 29, 1946. O. G. July 2. Class 25.

Hettrick Manufacturing Company, The: *See*—
Gendron Wheel Co.

Hoenigsberger, A., to A. Hoenigsberger, Chicago, Ill. Woven, knitted, and netted textile fabrics. 212,300; renewed Apr. 27, 1946. O. G. July 2. Class 42.

Hollins, William, & Company, (Nottingham) Limited, to William Hollins & Company, Limited, Nottingham, England. Flannel. 27,847; re-renewed Feb. 25, 1946. O. G. July 2. Class 42.

Hollins, William, & Company, Limited: *See*—
Hollins, William, & Company.

Holmes-Darst Coal Corporation, Knoxville, Tenn. Coal. 422,077; July 2; Serial No. 488,648; published Apr. 16, 1946. Class 1.

Hudson Valley Pure Food Company, Inc., Highland, N. Y. Nonalcoholic, maltless beverages. 210,006; renewed Mar. 9, 1946. O. G. July 2. Class 45.

Hygienol Company, Inc.: *See*—
Levy, Maurice.

Illinois State Journal, Springfield, to The Copley Press, Inc., Aurora, Ill. Daily newspaper. 214,252; renewed June 15, 1946. O. G. July 2. Class 38.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Fitted traveling kits and billfolds. 422,057; July 2; Serial No. 481,843; published Apr. 16, 1946. Class 3.

Intercontinental Audio-Video Corporation, New York, N. Y. Mechanically grooved phonograph records of the disk type. 422,128; July 2. Class 36.

International Cellucotton Products Company: *See*—
Cellucotton Products Company.

Jantzen Knitting Mills, Portland, Oreg. Foundation garments, girdles, and brassières. 422,136; July 2. Class 39.

Jay-Dee Leather Products Company, Redwood City, Calif. Wallets, billfolds, portfolios, etc. 422,054; July 2; Serial No. 478,924; published Apr. 16, 1946. Class 3.

Jelke, John F., Company: *See*—
Braun & Fitts, Inc.

Jordanoff Aviation Corporation, New York, N. Y. Technical, advertising, and educational drawings, prints, manuals, etc. 422,070; July 2; Serial No. 487,134; published Apr. 2, 1946. Class 38.

Kayser, Julius, & Co., New York, N. Y. Ladies' underwear. 422,097; July 2; Serial No. 491,340; published Mar. 26, 1946. Class 39.

Kayser, Julius, & Co., New York, N. Y. Fabric gloves. 422,098; July 2; Serial No. 491,342; published Mar. 26, 1946. Class 39.

Kayser, Julius, & Co., New York, N. Y. Ladies' nightgowns. 422,099; July 2; Serial No. 491,343; published Mar. 26, 1946. Class 39.

Keene, R. D., & Co., Eustis, to R. D. Keene, Inc., Winter Garden, Fla. Florida citrous fruit in natural state. 209,704; renewed Mar. 2, 1946. O. G. July 2. Class 46.

Keene, R. D., Inc.: *See*—
Keene, R. D., & Co.

Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. 422,049; July 2; Serial No. 475,759; published Apr. 9, 1946. Class 46.

Kem Manufacturing Co., Inc., New York, N. Y. Fuel and vacuum pumps, gasoline filters, and parts thereof. 422,114; July 2. Class 23.

Kirk, James S., & Company, Chicago, Ill., to The Procter & Gamble Company, Cincinnati, Ohio. Soap. 215,662; renewed July 20, 1946. O. G. July 2. Class 4.

Knox Company, The: *See*—
Bradham, Caleb D.

Kokomo Steel & Wire Co., to Continental Steel Corporation, Kokomo, Ind. Fencing. 215,227–31; renewed July 13, 1946. O. G. July 2. Class 13.

Kramer, Ferdinand, New York, N. Y. Merchandise display stands. 422,125; July 2. Class 32.

Legrand, Oriza L., Inc., Wilmington, Del., and New York, N. Y., to Oriza, Ltd., New York, N. Y. Perfumes, toilet water, face powder, etc. 216,500; renewed Aug. 10, 1946. O. G. July 2. Class 6.

Levy, Maurice, New York, to Hygienol Company, Inc., New Rochelle, N. Y. Powder puffs. 214,222; renewed June 15, 1946. O. G. July 2. Class 29.

Levy, Maurice, New York, to Hygienol Company, Inc., New Rochelle, N. Y. Powder puffs. 214,254; renewed June 15. 1946. O. G. July 2. Class 29.

Libby, McNeill & Libby, Chicago, Ill. Canned comminuted meats, sandwich spread, and comminuted form of food products. 213,217; renewed May 25, 1946. O. G. July 2. Class 46.

Lunsford, Joseph C., Portland, Oreg. Doughnuts. 422,062; July 2; Serial No. 483,433; published Apr. 9, 1946. Class 46.

Maggioros & Rousos, to Rousos Brothers, Rochester, N. Y. Olive oil. 201,885; renewed Aug. 11. 1945. O. G. July 2. Class 46.

Main Belting Company, Philadelphia, Pa. Machine-belting. 51,471; re-renewed Apr. 17, 1946. O. G. July 2. Class 35.

Markay Bags, New York, N. Y. Handbags. 422,102; July 2; Serial No. 492,929; published Apr. 16, 1946. Class 3.

Martin, J. D., Fresno, Calif. Fresh grapes. 214,776; renewed July 6, 1946. O. G. July 2. Class 46.

Mathieson Alkali Works, The: *See*—
Southern Gypsum Company.

Mayence Research Associates, Longwood, Fla. Periodical. 422,067; July 2; Serial No. 485,641; published Apr. 9, 1946. Class 38.

McCray Refrigerator Company, Kendallville, Ind. Refrigerators. 52,105; re-renewed May 1, 1946. O. G. July 2. Class 34.

McDanal, Richard L.: *See*—
Unitex Company, Incorporated, The.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Monthly bulletin dealing principally with mill supply distribution. 422,131; July 2. Class 38.

Meyers Mfg. Co., New York, N. Y. Ladies' handbags. 422,135; July 2. Class 3.

Michigan Brush Manufacturing Co., Inc., Detroit, Mich. Floor brushes, window brushes, counter brushes, etc. 215,841; renewed July 27, 1946. O. G. July 2. Class 29.

Milady Scarfs, New York, N. Y. Scarf and hat ensembles. 422,137; July 2. Class 39.

Miller, H. K.: *See*—
Miller, Harry K.

Miller, Harry K., doing business as H. K. Miller, Denver, Colo. Waterproofing preparation. 422,132; July 2. Class 12.

Minor, P. W., & Son, to P. W. Minor & Son, Inc., Batavia, N. Y. Leather boots and shoes. 50,283; re-renewed Mar. 6, 1946. O. G. July 2. Class 39.

Minor, P. W., & Son, Inc.: *See*—
Minor, P. W., & Son.

Minor, P. W., & Son, Inc., Batavia, N. Y. Boots and shoes. 215,839; renewed July 27, 1946. O. G. July 2. Class 39.

Monarch Watch Co., Inc.: *See*—
Epstein, M., & Bro.

Monroe Chemical Company: *See*—
Gale, Benjamin T.

Morgan Manufacturing Company, Inc., Asheville, N. C. Bedroom furniture. 422,081–2; July 2; Serial Nos. 489,408–9; published Apr. 16, 1946. Class 32.

Mülhens & Kropff, New York, N. Y., vested in the Alien Property Custodian, Washington, D. C. Toilet soaps. 50,685; re-renewed Mar. 27, 1946. O. G. July 2. Class 4.

Murphy, Alfred: *See*—
Ocean Bathing Suit Co., Inc., The.

National Battery Company: *See*—
Consolidated Battery Company.

National Folding Box Company, New Haven, Conn. Paperboard boxes having hinged covers. 422,048; July 2; Serial No. 467,765; published May 1, 1945. Class 2.

National Glove Company, The, Columbus, Ohio. Cloth gloves with leather palms. 214,910; renewed July 6, 1946. O. G. July 2. Class 39.

National Glove Company, The, Columbus, Ohio. Leather gloves and cotton gloves with leather palms. 214,912; renewed July 6, 1946. O. G. July 2. Class 39.

New England Brewing Company, to Haffenreffer & Co., Inc., Boston, Mass. Malt wine. 54,116; re-renewed June 19, 1946. O. G. July 2. Class 48.

New England Brewing Company, to Haffenreffer & Co., Inc., Boston, Mass. Ale. 54,196; re-renewed June 19, 1946. O. G. July 2. Class 48.

New England Brewing Company, to Haffenreffer & Co., Inc., Boston, Mass. Ale. 54,435; re-renewed June 26, 1946. O. G. July 2. Class 48.

New England Brewing Co., doing business as Haffenreffer & Co., to Haffenreffer & Co., Inc., Boston, Mass. Cereal malt beverage. 213,242; renewed May 25, 1946. O. G. July 2. Class 48.

New England Brewing Co., doing business as Haffenreffer & Co., to Haffenreffer & Co., Inc., Boston, Mass. Cereal malt beverage. 213,402; renewed May 25, 1946. O. G. July 2. Class 48.

New York Consolidated Card Company, The, New York, N. Y., to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 51,475; re-renewed Apr. 17, 1946. O. G. July 2. Class 22.

New York Consolidated Card Company, The, New York, N. Y., to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing-cards. 52,014; re-renewed May 1, 1946. O. G. July 2. Class 22.

New York Consolidated Card Company, The, New York, N. Y., to United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. 52,552; re-renewed May 15, 1946. O. G. July 2. Class 22.

New York Consolidated Card Company, The, New York, N. Y., to United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing-cards. 53,131; re-renewed May 29, 1946. O. G. July 2. Class 22.

New York Consolidated Card Company, The, New York, N. Y., to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing-cards. 54,451; re-renewed June 26, 1946. O. G. June 2. Class 22.

Niagara Metal Stamping Corporation, to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Coaster wagons. 195,303; renewed Feb. 24, 1945. O. G. July 2. Class 22.

Nicholas, S. J., doing business as S. J. Nicholas & Co., Los Angeles, Calif. Incense. 422,127; July 2. Class 6.

Nicholas, S. J., & Co.: *See*—
Nicholas, S. J.

North Brooklyn Supply Company, New York, N. Y. Cotton felt for mattresses and furniture. 422,129; July 2. Class 32.

Northern Pacific Railway Company, St. Paul, Minn. Booklets, circulars, and pamphlets. 209,924; renewed Mar. 2, 1946. O. G. July 2. Class 38.

Ocean Bathing Suit Co., Inc., The, to Alfred Murphy, New York, N. Y. Bathing suits. 215,434; renewed July 20, 1946. O. G. July 2. Class 39.

O'Connor, Elizabeth, Springville, N. Y., to Elizabeth O'Connor, Buffalo, N. Y. Salve. 211,078; renewed Apr. 6, 1946. O. G. July 2. Class 6.

Olive Products Company, Oroville, Calif. Olives and olive oil. 214,880; July 6. O. G. July 2. Class 46.

Oriza, Ltd.: *See*—
Legrand, Oriza L., Inc.

Parsons, C. A., & Co. Ltd.: *See*—
Parsons, Charles A.

Parsons, Charles A., to C. A. Parsons & Co. Ltd., Newcastle-on-Tyne, England. Turbo-compressors and pumps. 51,998; re-renewed May 1, 1946. O. G. July 2. Class 23.

Parsons, Charles A., to C. A. Parsons & Co. Ltd., Newcastle-on-Tyne, England. Steam-turbines of all kinds and parts of such turbines. 51,999; re-renewed Apr. 24, 1946. O. G. July 2. Class 23.

Patterson, S. J., Company, The, Dayton, Ohio. Coal. 214,348; renewed June 22, 1946. O. G. July 2. Class 1.

Perkins, Stuart, North Kansas City, Mo., to Stanco Incorporated, New York, N. Y. Insecticide spray. 213,726; renewed June 1, 1946. O. G. July 2. Class 6.

Permite Piston Co., to Aluminum Industries, Inc., Cincinnati, Ohio. Pistons. 212,703; renewed May 11, 1946. O. G. July 2. Class 23.

Phillips-Jones Corporation, New York, N. Y. Men's dress and negligee shirts and cuffs. 214,886; renewed July 6, 1946. O. G. July 2. Class 39.

Phillips-Jones Corporation, New York, N. Y. Men's dress and negligee shirts. 215,425; renewed July 20, 1946. O. G. July 2. Class 39.

Pioneer Paper Company, Los Angeles, Calif., to The Flintkote Company, New York, N. Y. Rolled roofing and asphalt and slate surfaced shingles. 212,064; renewed Apr. 27, 1946. O. G. July 2. Class 12.

Plastic Imagineers, New York, N. Y. Toy educational kits. 422,084; July 2; Serial No. 489,528; published Apr. 16, 1946. Class 22.

Plough, Inc.: *See*—
Schenck, Joseph H.

Polaroid Corporation, Cambridge, Mass. Photographing processing tanks, squeegees and printing rolls. 422,100; July 2; Serial No. 491,506; published Apr. 9, 1946. Class 26.

Pond's Extract Company, New York, N. Y. Cold cream, vanishing cream, powder compacts, etc. 215,081; renewed July 13, 1946. O. G. July 2. Class 6.

Porritt, Joseph & Sons Limited, Manchester and Helmshore, near Manchester, to Joseph Porritt & Sons Limited, Helmshore, Manchester, England. Cotton driers for paper makers, not in the piece. 211,219; renewed Apr. 6, 1946. O. G. July 2. Class 1.

Powernails Company, Chicago, Ill. Nails adhered together in stick form for use in nailing machines. 422,121; July 2. Class 13.

Pray, J. Parker, Dr., Company, Limited, New York, N. Y., to J. Parker Pray, Inc., Stamford, Conn. Toilet preparations. 54,971; re-renewed Aug. 7, 1946. O. G. July 2. Class 6.

Pray, J. Parker, Inc.: *See*—
Pray, J. Parker, Dr., Company, Limited.

Procter & Gamble Company, The: *See*—
Kirk, James S., & Company.
Procter & Gamble Co., The.
Rub-No-More Company, The.
Whistle Bottling Company.

Procter & Gamble Co., Ivorydale and Cincinnati, Ohio, and Kansas City, Kans., to The Procter & Gamble Company, Cincinnati, Ohio. Soap. 54,415; re-renewed June 26, 1946. O. G. July 2. Class 4.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 214,115; renewed June 15, 1946. O. G. July 2. Class 4.

Publishers Syndicate, Chicago, Ill. Comic strip. 422,105; July 2. Class 38.

Pyramid Manufacturing Co., Inc., New York, N. Y. Knitted hockey caps, hoods and berets, etc. 422,122; July 2. Class 39.

Railway Equipment and Publication Co., New York, N. Y. Serial publications. 54,856; re-renewed July 31, 1946. O. G. July 2. Class 38.

Ralston Purina Company: *See*—
Ry-Krisp Company, The.

Register and Tribune Company, The, Des Moines, Iowa. Title for newspaper items. 214,145; renewed June 15, 1946. O. G. July 2. Class 38.

Reo Car Co., to Reo Motors, Inc., Lansing, Mich. Automobile vehicles. 54,722; re-renewed June 26, 1946. O. G. July 2. Class 19.

Reo Motors, Inc.: *See*—
Reo Car Co.

Richardson Company, The, Lochland, Ohio to Flintkote Company, The, New York, N. Y. Composition shingles. 214,377; renewed June 22, 1946. O. G. July 2. Class 12.

Ritepoint Co., St. Louis, Mo. Mechanical pencils. 422,134; July 2. Class 37.

Rockwell Manufacturing Company: *See*—
Stover Manufacturing & Engine Co.

Rogers Imports Inc., New York, N. Y. Humidors. 422,086; July 2; Serial No. 489,694; published Apr. 16, 1946. Class 8.

Ronan, T. J., Co. Inc., Brooklyn, to T. J. Ronan Co., Inc., New York, N. Y. Ready-mixed paints, varnishes, and paint enamels. 216,088; renewed Aug. 3, 1946. O. G. July 2. Class 16.

Ronber, Inc., Jersey City, N. J. Harmonicas. 422,065; July 2; Serial No. 484,368; published Apr. 9, 1946. Class 36.

Roundup Grocery Company, Spokane, Wash. Canned salmon. 213,493; renewed June 1, 1946. O. G. July 2. Class 46.

Roundup Grocery Company, Spokane, Wash. Bluing and ammonia. 215,309; renewed July 13, 1946. O. G. July 2. Class 6.

Rousos Brothers: *See*—
Maggioros & Rousos.

Royal Plastic Co., Los Angeles, Calif. Compacts made of plastics and/or base metals. 422,055; July 2; Serial No. 480,090; published Apr. 16, 1946. Class 2.

Rubber Corporation of America, Brooklyn, N. Y. Bedroom slippers, baby bibs, and baby pants. 422,059; July 2; Serial No. 482,350; published Mar. 26, 1946. Class 39

Rubens & Meyer, to Rubens & Meyer, Inc., New York, N. Y. Hosiery. 215,551; renewed July 20, 1946. O. G. July 2. Class 39.

Rubens & Meyer, Inc.: *See*—
Rubens & Meyer.

Rub-No-More Company, The, Fort Wayne, Ind., The Procter & Gamble Company, Cincinnati, Ohio. Washing powder, soap flakes, and naphtha soap. 215,151; renewed July 13, 1946. O. G. July 2. Class 4.

Russell Miller Milling Co., to Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 211,463; renewed Apr. 12, 1946. O. G. July 2. Class 46.

Russell-Miller Milling Co., to Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 212,651; renewed May 11, 1946. O. G. July 2. Class 46.

Russell-Miller Milling Co., to Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 212,723; renewed May 11, 1946. O. G. July 2. Class 46.

Russell-Miller Milling Co., to Russell-Miller Milling Co., Minneapolis, Minn. Wheat flour. 214,125; renewed June 15, 1946. O. G. July 2. Class 46.

Ry-Krisp Company, The, Minneapolis, Minn., to Ralston Purina Company, St. Louis, Mo. Rye breakfast food. 216,163; renewed Aug. 3, 1946. O. G. July 2. Class 46.

Safe Padlock and Hardware Company: *See*—
Hershey, Lloyd B.

Safe Padlock & Hardware Company, The: *See*—
Hershey, Lloyd B.

San Francisco Association for the Blind, The, San Francisco, Calif. All types of brooms using broom corn. 207,522; renewed Jan. 5, 1946. O. G. July 2. Class 29.

San Francisco Association for the Blind, The, San Francisco, Calif. Baskets. 210,674; renewed Mar. 23, 1946. O. G. July 2. Class 2.

San Francisco Association for the Blind, The, San Francisco, Calif. Reed and rattan furniture. 211,221; renewed Apr. 6, 1946. O. G. July 2. Class 32.

Sav-Way Industries, Detroit, Mich. Children's toy coaster wagons. 422,083; July 2; Serial No. 489,490; published Apr. 16, 1946. Class 22.

Schenck, Joseph H., Philadelphia, Pa., to Plough, Inc., Memphis, Tenn. Medicinal, restoratives, and regulative compounds. 51,622; re-renewed Apr. 17, 1946. O. G. July 2, 1946. Class 6.

Schweitzer, Peter J., Inc., New York, N. Y. Writing paper. 422,087; July 2; Serial No. 489,768; published Apr. 16, 1946. Class 37.

Segal, Sylvia, New York, N. Y. Leather traveling bags, wallets, and combination wallets and change purses. 422,092; July 2; Serial No. 490,605; published Apr. 16, 1946. Class 3.

Selsi Company, Inc.: *See*—
Sussfeld, Lorsch & Schimmel.

Sharp & Smith, Chicago, Ill., to Sharp & Smith, Inc., St. Louis, Mo. Surgical belts and bandages. 48,805; re-renewed Jan. 16, 1946. O. G. July 2. Class 44.

Sharp & Smith, Inc.: *See*—
Sharp & Smith.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint-enamels, japans, etc. 209,912; renewed Mar. 2, 1946. O. G. July 2. Class 16.

Sill Stove Works, to Philip Will, Rochester, N. Y. Cooking stoves and ranges, heating-stoves, etc. 51,623; re-renewed Apr. 17, 1946. O. G. July 2. Class 34.

Simon Mattress Mfg. Co., San Francisco, Calif. Mattresses. 211,601; renewed Apr. 13, 1946. O. G. July 2. Class 32.

Smith, A. A., & Son, Inc., New York, assignor to Sterling Mills, Ilion, N. Y. Infants', girls' and ladies' knitted bathing suits, beach robes, sweaters, etc. 422,138; July 2. Class 39.

Smith, A. O., Corporation, Milwaukee, Wis. Arc length monitors. 422,046; July 2; Serial No. 456,964; published Apr. 2, 1946. Class 26.

Southern Gypsum Company, Incorporated, North Holston, Va., to The Mathieson Alkali Works, New York, N. Y. Gypsum and lime-gypsum plaster. 215,851; renewed July 27, 1946. O. G. July 2. Class 12.

Squire Dingee Company, Chicago, Ill. Pickles. 53,500; re-renewed June 5, 1946. O. G. July 2. Class 46.

Squire Dingee Company, Chicago, Ill. Pickles. 210,183; renewed Mar. 9, 1946. O. G. July 2. Class 46.

Stanco Incorporated: *See*—
Perkins, Stuart.

Standard Company, The, to The Torrington Company, Torrington, Conn. Spokes and nipples for wheels of bicycles and automobiles. 54,949; re-renewed Aug. 7, 1946. O. G. July 2. Class 19.

Standard Oil Company, San Francisco, to Standard Oil Company of California, San Francisco, Calif., and Wilmington, Del. Gasoline. 209,843; renewed Mar 2, 1946. O. G. July 2. Class 15.

Standard Oil Company of California: *See*—
Standard Oil Company.

Stanley Rule & Level Company, to The Stanley Works, New Britain, Conn. Round-shank screw-drivers. 54,951; re-renewed Aug. 7, 1946. O. G. July 2. Class 23.

Stanley Works, The: *See*—
Stanley Rule & Level Company.

Stetson Shoe Company, Incorporated, The, Weymouth, Mass. Leather boots and shoes. 422,130; July 2. Class 39.

Stover Manufacturing & Engine Co., Freeport, Ill., to Rockwell Manufacturing Company, Pittsburgh, Pa. Mopsticks. 208,668; renewed Feb. 9, 1946. O. G. July 2. Class 29.

Sun Oil Company, Philadelphia, Pa. Lubricating oil. 214,430; renewed June 22, 1946. O. G. July 2. Class 15.

Sun Rubber Company, The, Barberton, Ohio. Volley balls and basket balls. 422,069; July 2; Serial No. 486,975; published Apr. 16, 1946. Class 22.

Sunbeam Infants Wear and Novelty Company, Wilkes-Barre, Pa. Toys. 422,068; July 2; Serial No. 486,549; published Apr. 16, 1946. Class 22.

Sussfeld, Lorsch & Schimmel, to Selsi Company, Inc., New York, N. Y. Binoculars, telescopes, opera glasses, etc. 212,318; renewed Apr. 27, 1946. O. G. July 2. Class 26.

Sutter, Harold R., doing business as Buffalo Septic Tank Company, Buffalo, N. Y. Septic tanks made of concrete, and submerged garbage pail containers. 422,088; July 2; Serial No. 489,776; published Apr. 16, 1946. Class 2.

Technical Devices Corporation, Roseland, N. J. Photographic equipment and supplies. 422,090; July 2; Serial No. 490,217; published Apr. 9, 1946. Class 26.

Theall & Pile, Inc., New York, N. Y. Nonalcoholic maltless beverages and extracts and flavors. 208,793; renewed Feb. 9, 1946. O. G. July 2. Class 45.

Thomas, S. B., Inc., Long Island City, N. Y. Bread. 215,997; renewed Aug. 3, 1946. O. G. July 2. Class 46.

Titanium Alloy Manufacturing Company, The, Niagara Falls, to The Titanium Alloy Manufacturing Company, New York, N. Y. Zirconium and titanium compounds. 214,020; renewed June 8, 1946. O. G. July 2. Class 6.

Tobacco Rehandling Co. Ltd., The, Louisville, Ky. Leaf Tobacco. 214,206; renewed June 15, 1946. O. G. July 2. Class 17.

Tobacco Rehandling Co. Ltd., The, Louisville, Ky. Leaf Tobacco. 215,190; renewed July 13, 1946. O. G. July 2. Class 17.

Torrington Company, The: *See*—
Excelsior Needle Company.
Standard Company, The.

United Fast Color Eyelet Company, to United Shoe Machinery Corporation, Boston, Mass. Eyelets and lacing-hooks. 50,738; re-renewed Mar. 27, 1946. O. G. July 2. Class 40.

United Shoe Machinery Corporation: *See*—
United Fast Color Eyelet Company.
Whitcher, Frank W.

United States Gutta Percha Paint Company, Providence, R. I. Lacquers. 216,372; renewed Aug. 10, 1946. O. G. July 2. Class 16.

United States Playing Card Company, The: *See*—
New York Consolidated Card Company, The.
United States Playing Card Co., The.

United States Playing Card Co., The, East Norwood, Cincinnati, Ohio, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 51,202; re-renewed Apr. 10, 1946. O. G. July 2. Class 22.

United States Playing Card Co., The, East Norwood, Cincinnati, Ohio, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 51,378; re-renewed Apr. 17, 1946. O. G. July 2. Class 22.

United States Playing Card Co., The, East Norwood, Cincinnati, Ohio, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 51,751; re-renewed Apr. 24, 1946. O. G. July 2. Class 22.
United States Playing Card Co., The, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 51,755; re-renewed Apr. 24. O. G. July 2. Class 22.
United States Playing Card Co., The, East Norwood, Cincinnati, Ohio, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 52,026; re-renewed May 1, 1946. O. G. July 2. Class 22.
United States Playing Card Co., The, to United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing-cards. 53,089; re-renewed May 22, 1946. O. G. July 2. Class 22.
Unitex Company, Incorporated, The, to Richard L. McDanal, Denver, Colo. Optical lenses. 215,085; renewed July 13, 1946. O. G. July 2. Class 26.
Van Haslin Industries, Chicago, Ill. Toy guns. 422,093; July 2; Serial No. 490,606; published Apr. 16, 1946. Class 22.
Visking Corporation, The, Chicago, Ill. Tubes in the nature of containers and bags made from plastics. 422,073; July 2; Serial No. 487,533; published Apr. 16, 1946. Class 2.
Visking Corporation, The, Chicago, Ill. Plastic rods, tapes, bars and slats, rigid, semi-rigid or flexible. 422,074; July 2; Serial No. 487,536; published Apr. 16, 1946. Class 1.
Von Lengerke & Detmold, to Abercrombie & Fitch Company, New York, N. Y. Shotguns. 54,954; re-renewed Aug. 7, 1946. O. G. July 2. Class 9.
Waltham Watch and Clock Company, now by change of name, Waltham Watch Company, to Waltham Watch Company, Waltham, Mass. Speed and distance indicators. 215,527; renewed July 20, 1946. O. G. July 2. Class 26.
Waltham Watch Company: *See*—
Waltham Watch and Clock Company.
Warp Brothers: *See*—
Warp, Harold.
Warp, Harold, doing business as Flex-O-Glass Manufacturing Co. and Warp Brothers, Chicago, Ill. Laminated, flexible, metallic-netting reinforced building paper. 422,104; July 2. Class 12.
Warp, Harold, doing business as Flex-O-Glass Manufacturing Co. and Warp Brothers, Chicago, Ill. Netting and screening materials in the nature of screen cloth. 422,119; July 2. Class 13.
Whistle Bottling Company, Johnsonburg, Pa., to The Procter & Gamble Company, Cincinnati, Ohio. Washing and cleaning compound. 214,076; renewed June 15, 1946. O. G. July 2. Class 4.
Whitcher, Frank W., to United Shoe Machinery Corporation, Boston, Mass. Heel-protectors. 50,599; re-renewed Mar. 27, 1946. O. G. July 2. Class 13.
Whiting Leather & Belting Co., Incorporated: *See*—
Whiting Leather & Belting Co., Inc.
Whiting Leather & Belting Co., Inc., Long Island City, to Whiting Leather & Belting Co., Incorporated, New York, N. Y. Leather belting and rawhide cut lace for leather belting. 214,605; renewed June 29, 1946. O. G. July 2. Class 35.
Wichita Flour Mills Company, The, Wichita, Kans. Wheat flour. 215,722; renewed July 27, 1946. O. G. July 2. Class 46.
Will, Philip: *See*—
Sill Stove Works.
Willey, C. A., Company: *See*—
Willey, C. A., Co.
Willey, C. A., Co., New York, to C. A. Willey Company, Long Island City, N. Y. Paints and colors. 51,954; re-renewed Apr. 24, 1946. O. G. July 2. Class 16.
Wolfenden, R., & Sons, Attleboro, Mass. Cotton, woolen, linen, and rayon fibres, etc. 422,053; July 2; Serial No. 478,730; published Apr. 16, 1946. Class 1.
Women's National Aeronautical Association of The United States, Incorporated, Pueblo, Colo. Magazine. 422,061; July 2; Serial No. 482,514; published Apr. 2, 1946. Class 38.
Wright-Batchelder Corporation, Boston, Mass. Shoe welts, insoles, and sewing ribs for welt footwear. 422,115; July 2, 1946. Class 39.
Wright-Batchelder Corporation, Boston, Mass. Shoe welts. 422,124; July 2. Class 39.
Wyoming Boiler Compound Co., Douglas, Wyo., to Wyoming Boiler Compound Co., San Pedro, Calif. Compounds for use in boilers. 209,873; renewed Mar. 2, 1946. O. G. July 2. Class 6.
Yankee Shoemakers, Inc., Newmarket, N. H. Shoes made of leather and fabric. 422,063; July 2; Serial No. 484,070; published Mar. 26, 1946. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. C. N. Blanchard. 215,088; renewed July 13, 1946. O. G. July 2.
Coal. Holmes-Darst Coal Corporation. 422,077; July 2; Serial No. 486,648; published Apr. 16, 1946.
Coal. S. J. Patterson Company. 214,348; renewed June 22, 1946. O. G. July 2.
Driers for paper makers, not in the piece, Cotton. J. Porritt & Sons Limited. 211,219; renewed Apr. 6, 1946. O. G. July 2.
Fibres, etc., Cotton, woolen, linen, and rayon. R. Wolfenden & Sons. 422,053; July 2; Serial No. 478,730; published Apr. 16, 1946.
Pelts, Fur. Great Lakes Mink Association. 422,133; July 2.
Plastic rods, tapes, bars and slats, rigid, semi-rigid or flexible. Visking Corporation. 422,074; July 2; Serial No. 487,536; published Apr. 16, 1946.
Rubber substitutes. Dermatine Company Limited. 50,018; re-renewed Feb. 27, 1946. O. G. July 2.

CLASS 2

Baskets. San Francisco Association for the Blind. 210,674; renewed Mar. 23, 1946. O. G. July 2.
Boxes and containers, Plain and decorated metallic art. Beautébox, Inc. 210,211; renewed Mar. 9, 1946. O. G. July 2.
Boxes having hinged covers, Paperboard. National Folding Box Company. 422,048; July 2; Serial No. 467,765; published May 1, 1945.
Compacts made of plastics and/or base metals. Royal Plastic Co. 422,055; July 2; Serial No. 480,090; published Apr. 16, 1946.
Tanks made of concrete, and submerged garbage pail containers, Septic. Harold R. Sutter. 422,088; July 2; Serial No. 489,776; published Apr. 16, 1946.
Tubes in the nature of containers and bags made from plastics. Visking Corporation. 422,073; July 2; Serial No. 487,533; published Apr. 16, 1946.
Vats, waste cans, delivery baskets, and silo spouts, Scalding. Columbian Steel Tank Company. 422,052; July 2; Serial No. 478,495; published Apr. 16, 1946.

CLASS 3

Bags, wallets, and combination wallets and change purses, Leather traveling. Sylvia Segal. 422,092; July 2; Serial No. 490,605; published Apr. 16, 1946.
Handbags. Markey Bags. 422,102; July 2; Serial No. 492,929; published Apr. 16, 1946.
Handbags, Ladies'. Meyers Mfg. Co. 422,135; July 2.
Kits and billfolds, Fitted traveling. Illinois Watch Case Co. 422,057; July 2; Serial No. 481,843; published Apr. 16, 1946.
Purses and pocketbooks. Buxton, Incorporated. 214,165; renewed June 15, 1946. O. G. July 2.
Purses and pocketbooks. Buxton, Incorporated. 214,189; renewed June 15, 1946. O. G. July 2.
Wallets, billfolds, portfolios, etc. Jay-Dee Leather Products Company. 422,054; July 2; Serial No. 478,924; published Apr. 16, 1946.

CLASS 4

Oil, also called "soluble oil" and "soluble grease," Turkey-red. Arabol Mf'g Co. 51,416; re-renewed Apr. 17, 1946. O. G. July 2.
Oils, Turkey-red, also called "soluble oil" and "soluble grease." Arabol Mf'g Co. 54,806; re-renewed July 31, 1946. O. G. July 2.
Powder, soap flakes, and naptha soap, Washing. Rub-No-More Company. 215,151; renewed July 13, 1946. O. G. July 2.
Soap. James S. Kirk & Company. 215,662; renewed July 20, 1946. O. G. July 2.
Soap. Procter & Gamble Co. 54,415; re-renewed June 26, 1946. O. G. July 2.
Soap. Procter & Gamble Company. 214,115; renewed June 15, 1946. O. G. July 2.
Soaps, cleaning, scouring, and polishing wads, pads, etc. Brillo Manufacturing Company. 213,047; renewed May 18, 1946. O. G. July 2.
Soaps, Toilet. Mülhens & Kropff. 50,685; re-renewed Mar. 27, 1946. O. G. July 2.
Washing and cleaning compound. Whistle Bottling Company. 214,076; renewed June 15, 1946. O. G. July 2.

CLASS 5

Adhesives, Liquid and dry. Arabol Mf'g Co. 213,215; renewed May 25, 1946. O. G. July 2.

CLASS 6

Bluing and ammonia. Roundup Grocery Company. 215,309; renewed July 13, 1946. O. G. July 2.
Chemical adapted to be added to gasoline, and to lubricating or fuel oils, Liquid. Cristy Drygas Products, Inc. 422,140; July 2.

Compounds for use in boilers. Wyoming Boiler Compound Co. 209,873; renewed Mar. 2, 1946. O. G. July 2.
Cream, vanishing cream, powder compacts, etc., Cold. Pond's Extract Company. 215,081; renewed July 13, 1946. O. G. July 2.
Deodorant and remedy, Prespiration. B. T. Gale. 214,967; renewed July 6, 1946. O. G. July 2.
Incense. S. J. Nicholas. 422,127; July 2.
Liquid preparation. C. D. Bradham. 51,314; re-renewed Apr. 10, 1946. O. G. July 2.
Medicinal, restorative, and regulative compounds. J. H. Schenck. 51,622; re-renewed Apr. 17, 1946. O. G. July 2.
Oil, also called "soluble oil" and "soluble grease," Turkey-red. Arabol Mf'g Co. 51,416; re-renewed Apr. 17, 1946. O. G. July 2.
Oil, also called "soluble oil" and "soluble grease," Turkey-red. Arabol Mf'g Co. 54,806; re-renewed July 21, 1946. O. G. July 2.
Perfumes, toilet water, face powder, etc. Oriza L. Legrand, Inc. 216,500; renewed Aug. 10, 1946. O. G. July 2.
Remedy for purifying blood, pills, and liniment; etc. K. C. Davis. 209,907; renewed Mar. 2, 1946. O. G. July 2.
Salve. E. O'Connor. 211,078; renewed Apr. 6, 1946. O. G. July 2.
Spray, Insecticide. S. Perkins. 213,726; renewed June 1, 1946. O. G. July 2.
Toilet preparations. Dr. J. Parker Pray Company. 54,971; re-renewed Aug. 7, 1946. O. G. July 2.
Zirconium and titanium compounds. Titanium Alloy Manufacturing Company. 214,020; renewed June 8, 1946. O. G. July 2.

CLASS 8

Humidors. Rogers Imports Inc. 422,086; July 2; Serial No. 489,694; published Apr. 16, 1946.

CLASS 9

Pistols. Colt's Patent Fire Arms Manufacturing Company. 52,903–4; re-renewed May 22, 1946. O. G. July 2.
Shotguns. Von Lengerke & Detmold. 54,954; re-renewed Aug. 7, 1946. O. G. July 2.

CLASS 12

Bituminous emulsions. Asphalt Cold Mix Limited. 213,936; renewed June 8, 1946. O. G. July 2.
Building paper, Laminated, flexible, metallic-netting reinforced. H. Warp. 422,104; July 2.
Plaster, Gypsum and lime-gypsum. Southern Gypsum Company, Incorporated. 215,851; renewed July 27, 1946. O. G. July 2.
Roofing and asphalt and slate surfaced shingles, Rolled. Pioneer Paper Company. 212,064; renewed Apr. 27, 1946. O. G. July 2.
Shingles, Composition. Richardson Company. 214,377; renewed June 22, 1946. O. G. July 2.
Veneer, Board, wood and paper. Chicago Mill and Lumber Company. 422,066; July 2; Serial No. 484,878; published Apr. 9, 1946.
Waterproofing preparation. H. K. Miller. 422,132; July 2.

CLASS 13

Fencing. Kokomo Steel & Wire Co. 215,227–31; renewed July 13, 1946. O. G. July 2.
Heel-protectors. F. W. Whitcher. 50,599; re-renewed Mar. 27, 1946. O. G. July 2.
Holders for soap, sponges, brushes, etc. J. P. Eustis Mfg. Co. 54,753; re-renewed June 26, 1946. O. G. July 2.
Netting and screening materials in the nature of screen cloth. H. Warp. 422,119; July 2.
Pipe fittings, Metal. Cleveland Heater Company. 215,507; renewed July 20, 1946. O. G. July 2.
Rope-clips. American Hoist & Derrick Company. 50,804; re-renewed Apr. 3, 1946. O. G. July 2.
Tanks, Hot-water-supply. P. Gray. 215,541; renewed July 20, 1946. O. G. July 2.

CLASS 15

Gasoline. Standard Oil Company. 209,843; renewed Mar. 2, 1946. O. G. July 2.
Lubricating composition, Penetrating. E. I. du Pont de Nemours and Company. 422,080; July 2; Serial No. 489,392; published Mar. 26, 1946.
Oil, also called "soluble oil" and "soluble grease," Turkey-red. Arabol Mf'g Co. 51,416; re-renewed Apr. 17, 1946. O. G. July 2.
Oil, also called "soluble oil" and "soluble grease," Turkey-red. Arabol Mf'g Co. 54,806; re-renewed July 31, 1946. O. G. July 2.
Oil, Lubricating. Sun Oil Company. 214,430; renewed June 22, 1946. O. G. July 2.

CLASS 16

Lacquer. Egyptian Lacquer Manufacturing Company. 209,734; renewed Mar. 2, 1946. O. G. July 2.
Lacquer. Egyptian Lacquer Manufacturing Company. 216,076; renewed Aug. 3, 1946. O. G. July 2.
Lacquers. United States Gutta Percha Paint Company. 216,372; renewed Aug. 10, 1946. O. G. July 2.
Lacquers, lacquer enamels, and lacquer thinners. Egyptian Lacquer Manufacturing Company. 210,862–3; renewed Mar. 23, 1946. O. G. July 2.
Lacquers, lacquer enamels, and lacquer thinners. Egyptian Lacquer Manufacturing Company. 213,916–8; renewed June 8, 1946. O. G. July 2.
Lacquers, lacquer enamels, and lacquer thinners. Egyptian Lacquer Manufacturing Company. 214,396; renewed June 22, 1946. O. G. July 2.
Paints and colors. C. A. Willey Co. 51,954; re-renewed Apr. 24, 1946. O. G. July 2.
Paints, Bituminous. Asphalt Cold Mix Limited. 216,439; renewed Aug. 10, 1946. O. G. July 2.
Paints, paint-enamels, japans, etc. Sherwin-Williams Company. 209,912; renewed Mar. 2, 1946. O. G. July 2.
Paints, varnishes, and paint enamels, Ready-mixed. T. J. Ronan Co. Inc. 216,088; renewed Aug. 3, 1946. O. G. July 2.

CLASS 17

Tobacco, Leaf. Tobacco Rehandling Co. Ltd. 214,206; renewed June 15, 1946. O. G. July 2.
Tobacco, Leaf. Tobacco Rehandling Co. Ltd. 215,190; renewed July 13, 1946. O. G. July 2.

CLASS 19

Spokes and nipples for wheels of bicycles and automobiles. Standard Company. 54,949; re-renewed Aug. 7, 1946. O. G. July 2.
Vehicles, Automobile. Reo Car Co. 54,722; re-renewed June 26, 1946. O. G. July 2.
Windshield wiper arms and windshield wiper blades. Anderson Company. 422,112; July 2.

CLASS 21

Annunciators. Elevator Supplies Co., Inc. 210,391; renewed Mar. 16, 1946. O. G. July 2.
Batteries, Electric. Consolidated Battery Company. 211,878; renewed Apr. 20, 1946. O. G. July 2.
Radio accessories. Chas. Fischer Spring Co. 216,260; renewed Aug. 10, 1946. O. G. July 2.

CLASS 22

Balls and basket balls, Volley. Sun Rubber Company. 422,069; July 2; Serial No. 486,975; published Apr. 16, 1946.
Express-wagons, patrol-wagons, hook-and-ladder wagons, Children's. Gendron Wheel Co. 54,103; re-renewed June 19, 1946. O. G. July 2.
Playing-cards. New York Consolidated Card Company. 51,475; re-renewed Apr. 17, 1946. O. G. July 2.
Playing-cards. New York Consolidated Card Company. 52,014; re-renewed May 1, 1946. O. G. July 2.
Playing-cards. New York Consolidated Card Company. 52,552; re-renewed May 15, 1946. O. G. July 2.
Playing-cards. New York Consolidated Card Company. 53,131; re-renewed May 29, 1946. O. G. July 2.
Playing-cards. New York Consolidated Card Company. 54,451; re-renewed June 26, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co. 51,202; re-renewed Apr. 10, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co. 51,378; re-renewed Apr. 17, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co., The. 51,751; re-renewed Apr. 24, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co. 51,755; re-renewed Apr. 24, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co., The. 52,026; re-renewed May 1, 1946. O. G. July 2.
Playing-cards. United States Playing Card Co. 53,089; re-renewed May 22, 1946. O. G. July 2.
Slides for coin-operated amusement devices and machines, Coin. A. B. T. Manufacturing Corp. 422,051; July 2; Serial No. 477,678; published Apr. 16, 1946.
Toy coaster, wagons, Children's. Say-Way Industries. 422,083; July 2; Serial No. 489,490; published Apr. 16, 1946.
Toy educational kits. Plastic Imagineers. 422,084; July 2; Serial No. 489,528; published Apr. 16, 1946.
Toy guns. Van Haslin Industries. 422,093; July 2; Serial No. 490,606; published Apr. 16, 1946.
Toys. Sunbeam Infants Wear and Novelty Company. 422,068; July 2; Serial No. 486,549; published Apr. 16, 1946.
Wagons, Coaster. Niagara Metal Stamping Corporation. 195,303; renewed Feb. 24, 1945. O. G. July 2.

CLASS 23

Bearings, Ball, roller, and plain. Associated Bearings Company. 422,117; July 2.
Clippers and their parts, Hair and wool. American Shearer M'f'g Co. 55,032; re-renewed Aug. 7, 1946. O. G. July 2.
Files. Carver File Company. 49,706; re-renewed Feb. 13, 1946. O. G. July 2.
Files and rasps. Carver File Company. 50,089; re-renewed Mar. 6, 1946. O. G. July 2.
Files and rasps. Carver File Company. 50,538; re-renewed Mar. 20, 1946. O. G. July 2.
Files and rasps. Carver File Company. 54,129; re-renewed June 19, 1946. O. G. July 2.
Needle, Knitting-machine. Excelsior Needle Company. 54,918; re-renewed Aug. 7, 1946. O. G. July 2.

Needles. Excelsior Needle Company. 53,544; re-renewed June 5, 1946. O. G. July 2.
Needles, Sewing-machine. Excelsior Needle Company. 52,656; re-renewed May 15, 1946. O. G. July 2.
Needles, Sewing-machine. Excelsior Needle Company. 52,660; re-renewed May 15, 1946. O. G. July 2.
Pistons. Permite Piston Co. 212,703; renewed May 11, 1946. O. G. July 2.
Pumps, gasoline filters, and parts thereof, Fuel and vacuum. Kem Manufacturing Co., Inc. 422,114; July 2.
Screw-drivers, Round-shank. Stanley Rule & Level Company. 54,551; re-renewed Aug. 7, 1946. O. G. July 2.
Steam-turbines of all kinds and parts of such turbines. C. A. Parsons. 51,999; re-renewed May 1, 1946. O. G. July 2.
Taps, dies, reamers, etc. J. M. Carpenter Tap & Die Co. 50,950; re-renewed Apr. 3, 1946. O. G. July 2.
Turbo-compressors and pumps. C. A. Parsons. 51,998; re-renewed May 1, 1946. O. G. July 2.

CLASS 25

Locks and latches and keys therefor. L. B. Hershey. 214,583; renewed June 29, 1946. O. G. July 2.

CLASS 26

Binoculars, telescopes, opera glasses, etc. Sussfeld, Lorsch & Schimmel. 212,318; renewed Apr. 27, 1946. O. G. July 2.
Cameras and parts thereof. Concord Radio Corporation. 422,126; July 2.
Indicators, Speed and distance. Waltham Watch and Clock Company. 215,527; renewed July 20, 1946. O. G. July 2.
Lenses, Contact. Feinbloom Contact Lenses, Inc. 422,101; July 2; Serial No. 492,372; published Apr. 9, 1946.
Lenses, Optical. Unitex Company, Incorporated, The. 215,085; renewed July 13, 1946. O. G. July 2.
Monitors, Arc length. A. O. Smith Corporation. 422,046; July 2; Serial No. 456,964; published Apr. 2, 1946.
Photographic equipment and supplies. Technical Devices Corporation. 422,090; July 2; Serial No. 490,217; published Apr. 9, 1946.
Photographic processing tanks, squeegees and printing rolls. Polaroid Corporation. 422,100; July 2; Serial No. 491,506; published Apr. 9, 1946.

CLASS 27

Watches. Benrus Watch Company. 422,103; July 2.
Watches, parts of watches, and watch cases. M. Epstein & Bro. 215,783; renewed July 27, 1946. O. G. July 2.

CLASS 28

Jewelry, Men's. M. Balicer. 422,079; July 2; Serial No. 488,949; published Apr. 9, 1946.
Rings, Finger. Blancard & Co., Inc. 214,412; renewed June 22, 1946. O. G. July 2.
Rings, Wedding. Blancard & Co., Inc. 214,411; renewed June 22, 1946. O. G. July 2.

CLASS 29

Brooms using broom corn, All types of. San Francisco Association for the Blind. 207,522; renewed Jan. 5, 1946. O. G. July 2.
Brushes, window brushes, counter brushes, etc., Floor. Michigan Brush Manufacturing Co., Inc. 215,841; renewed July 27, 1946. O. G. July 2.
Mopsticks. Stover Manufacturing & Engine Co. 208,668; renewed Feb. 9, 1946. O. G. July 2.
Powder puffs. M. Levy. 214,222; renewed June 15, 1946. O. G. July 2.
Powder puffs. M. Levy. 214,254; renewed June 15, 1946. O. G. July 2.

CLASS 30

Crockery and chinaware. Dohrmann Hotel Supply Co. 422,075; July 2; Serial No. 487,603; published Apr. 2, 1946.

CLASS 31

Refrigerators, Electric. Farmco, Incorporated. 422,089; July 2; Serial No. 490,110; published Apr. 16, 1946.

CLASS 32

Blinds, Venetian. Artex-Green Corporation. 422,096; July 2; Serial No. 491,149; published Apr. 16, 1946.
Display stands, Merchandise. F. Kramer. 422,125; July 2.
Furniture, Bedroom. Morgan Manufacturing Company, Inc. 422,081–2; July 2; Serial Nos. 489,408–9; published Apr. 16, 1946.
Furniture, Reed and rattan. San Francisco Association for the Blind. 211,221; renewed Apr. 6, 1946. O. G. July 2.
Mattresses. Simon Mattress Mfg. Co. 211,601; renewed Apr. 13, 1946. O. G. July 2.
Mattresses and furniture, Cotton felt for. North Brooklyn Supply Company. 422,129; July 2.

CLASS 33

Bottles, Glass milk. Cream Top Bottle Corporation. 215,975; renewed Aug. 3, 1946. O. G. July 2.
Glassware, Table. Fostoria Glass Company. 216,107; renewed Aug. 3, 1946. O. G. July 2.

CLASS 34

Aluminum and aluminum alloys. Aluminum Company of America. 215,544; renewed July 20, 1946. O. G. July 2.
Refrigerators. McCray Refrigerator Co. 52,105; re-renewed May 1, 1946. O. G. July 2.
Stoves and ranges, heating-stoves, etc., Cooking. Sill Stove Works. 51,623; re-renewed Apr. 17, 1946. O. G. July 2.

CLASS 35

Belting and rawhide cut lace for leather belting, Leather. Whiting Leather & Belting Co., Inc. 214,605; renewed June 29, 1946. O. G. July 2.
Machine-belting. Main Belting Company. 51,471; re-renewed Apr. 17, 1946. O. G. July 2.

CLASS 36

Harmonicas. Ronber, Inc. 422,065; July 2; Serial No. 484,368; published Apr. 9, 1946.
Phonograph records of the disk type, Mechanically grooved. Intercontinental Audio-Video Corporation. 422,128; July 2.

CLASS 37

Account forms, bookkeeping blanks, counter check books, etc. Appleford Counter Check Book Co., Limited. 205,932; renewed Nov. 17, 1945. O. G. July 2.
Blank forms. W. I. Dement. 422,076; July 2; Serial No. 487,704; published Apr. 16, 1946.
Lead-pencils. American Lead Pencil Co. 51,414; re-renewed Apr. 17, 1946. O. G. July 2.
Paper, air mail envelopes, printing paper, etc., Air mail. Agency Paper Company. 422,050; July 2; Serial No. 476,489; published Apr. 16, 1946.
Paper, Wrapping. Albemarle Paper Manufacturing Company. 210,429; renewed Mar. 16, 1946. O. G. July 2.
Paper, Writing. P. J. Schweitzer, Inc. 422,087; July 2; Serial No. 489,768; published Apr. 16, 1946.
Pencils, Mechanical. Ritepoint Co. 422,134; July 2.

CLASS 38

Booklets, circulars, and pamphlets. Northern Pacific Railway Company. 209,924; renewed Mar. 2, 1946. O. G. July 2.
Books, tracts, phamphlets, etc., Religious. Gospel Trumpet Company. 422,047; July 2; Serial No. 467,522; published Apr. 2, 1946.
Bulletin dealing principally with mill supply distribution, Monthly. McGraw-Hill Publishing Company, Inc. 422,131; July 2.
Comic strip. Publishers Syndicate. 422,105; July 2.
Drawings, prints, manuals, etc., Technical, advertising, and educational. Jordanoff Aviation Corporation. 422,070; July 2; Serial No. 487,134; published Apr. 2, 1946.
Magazine. Women's National Aeronautical Association of The United States, Incorporated. 422,061; July 2; Serial No. 482,514; published Apr. 2, 1946.
Magazine column devoted to the publication of letters from readers written in light vein, Humorous. F-R Publishing Corporation. 422,107–10; July 2.
Magazine column devoted to the reprinting from other publications of statements made with serious purport, etc., Humorous. F-R Publishing Corporation, The. 422,116; July 2.
Magazine column, devoted to the reprinting of inane, pointless or ludicrous personal items, Humorous. F-R Publishing Corporation. 422,106; July 2.
Magazine column devoted to the reprinting of items which have appeared in other publication, Humorous. F-R Publishing Corporation. 422,111; July 2.
Newspaper, Daily. Illinois State Journal. 214,252; renewed June 15, 1946. O. G. July 2.
Periodical. Mayence Research Associates. 422,067; July 2; Serial No. 485,641; published Apr. 9, 1946.
Periodical, Pictorial. R. Harrison. 422,094; July 2; Serial No. 490,659; published Apr. 16, 1946.
Publication. Duchess Printing and Publishing Co., Limited. 422,058; July 2; Serial No. 482,240; published Apr. 2, 1946.
Publication, Column or section in a periodical. Eastman Kodak Company. 422,085; July 2; Serial No. 489,662; published Apr. 2, 1946.
Publication, Monthly. Conde Nast Publications, Inc. 214,992; renewed July 6, 1946. O. G. July 2.
Publications, Periodical. Farm Implement News Company. 422,139; July 2.
Publications, Serial. Railway Equipment and Publication Co. 54,856; re-renewed July 31, 1946. O. G. July 2.
Sheet music and music books. Am-Rus Music Agency, Inc. 422,078; July 2; Serial No. 488,844; published Apr. 16, 1946.
Title for newspaper items. Register and Tribune Company. 214,145; renewed June 15, 1946. O. G. July 2.

CLASS 39

Boots and shoes. P. W. Minor & Son, Inc. 215,839; renewed July 27, 1946. O. G. July 2.
Boots and shoes, Leather. P. W. Minor & Son. 50,283; re-renewed Mar. 6, 1946. O. G. July 2.
Boots and shoes, Leather. Stetson Shoe Company, Incorporated. 422,130; July 2.
Boots and shoes, Women's and misses'. British West Indies Co. 422,091; July 2; Serial No. 490,283; published Mar. 26, 1946.
Caps, hoods and berets, etc., Knitted hockey. Pyramid Manufacturing Co., Inc. 422,122; July 2.
Dresses, skirts, waists, etc., Women's and misses'. Chicago Mail Order Company. 210,931; renewed Mar. 30, 1946. O. G. July 2.
Garments, girdles and brassières, Foundation. Jantzen Knitting Mills. 422,136; July 2.
Gloves. Abraham & Straus. 49,701; re-renewed Feb. 13, 1946. O. G. July 2.
Gloves and cotton gloves with leather palms, Leather. National Glove Company. 214,912; renewed July 6, 1946. O. G. July 2.
Gloves and mittens. Boss Manufacturing Company. 210,819; renewed Mar. 23, 1946. O. G. July 2.
Gloves, Fabric. Julius Kayser & Co. 422,098; July 2; Serial No. 491,342; published Mar. 26, 1946.
Gloves, Knitted. Gloversville Knitting Co. 422,072; July 2; Serial No. 487,360; published Mar. 26, 1946.
Gloves with leather palms, Cloth. National Glove Company. 214,910; renewed July 6, 1946. O. G. July 2.
Hats, dresses, blouses, vests, etc., Ladies' and children's. Emanuel & Co. 422,071; July 2; Serial No. 487,314; published Mar. 26, 1946.
Hosiery. Rubens & Meyer. 215,551; renewed July 20, 1946. O. G. July 2.
House coats, waistcoats, etc., Men's and boys'; women's, girls', and misses' dresses, tailored suits, etc., and men's, women's, misses', and boys' sweaters, mufflers, hosiery, etc. Franklin Simon & Co., Inc. 210,160; renewed Mar. 9, 1946. O. G. July 2.
Nightgowns, Ladies'. Julius Kayser & Co. 422,099; July 2; Serial No. 491,343; published Mar. 26, 1946.
Scarf and hat ensembles, Milady Scarfs. 422,137; July 2.
Shirts and cuffs, Men's dress and negligee. Phillips-Jones Corporation. 214,886; renewed July 6, 1946. O. G. July 2.
Shirts, Men's dress and negligee. Phillips-Jones Corporation. 215,425; renewed July 20, 1946. O. G. July 2.
Shoe welts. Wright-Batchelder Corporation. 422,124; July 2.
Shoe welts, insoles, and sewing ribs for welt footwear. Wright-Batchelder Corporation. 422,115; July 2.
Shoes, Leather. J. Edwards & Co. 422,118; July 2.
Shoes, Leather. J. Edwards & Co. 422,123; July 2.
Shoes made of leather and fabric. Yankee Shoemakers, Inc. 422,063; July 2; Serial No. 484,070; published Mar. 26, 1946.
Shoes, Men's. Endicott Johnson Corporation. 422,056; July 2; Serial No. 480,893; published Mar. 19, 1946.
Slippers, baby bibs and baby pants, Bedroom. Rubber Corporation of America. 422,059; July 2; Serial No. 482,350; published Mar. 26, 1946.
Slippers, Girls' and women's. Endicott Johnson Corporation. 422,095; July 2; Serial No. 491,074; published Mar. 26, 1946.
Suits, Bathing. Ocean Bathing Suit Co., Inc. 215,434; renewed July 20, 1946. O. G. July 2.
Suits, beach robes, sweaters, etc., Infants', girls', and ladies' knitted bathing. A. A. Smith & Son, Inc. 422,138; July 2.
Underwear, Ladies'. Julius Kayser & Co. 422,097; July 2; Serial No. 491,340; published Mar. 26, 1946.
Union suits and underwear, Knitted. Fort Schuyler Knitting Co. 215,836; renewed July 27, 1946. O. G. July 2.

CLASS 40

Eyelets and lacing-hooks. United Fast Color Eyelet Company. 50,738; re-renewed Mar. 27, 1946. O. G. July 2.
Needles. Excelsior Needle Company. 53,544; re-renewed June 5, 1946. O. G. July 2.

CLASS 42

Cotton piece goods. Bradford Dyers' Association, Limited. 210,121; renewed Mar. 9, 1946. O. G. July 2.
Flannel. William Hollins & Company. 27,847; re-renewed Feb. 25, 1946. O. G. July 2.
Piece goods of rayon, cotton, wool, etc. Riverside & Dan River Cotton Mills, Inc. 422,064; July 2; Serial No. 484,065; published Aug. 28, 1945.
Sateens and venetians. Bradford Dyers' Associations. 213,001; renewed May 18, 1946. O. G. July 2.
Textile fabrics, Woven, knitted, and netted. A. Hoenigsberger. 212,300; renewed Apr. 27, 1946. O. G. July 2.

CLASS 44

Belts and bandages, Surgical. Sharp & Smith. 48,805; re-renewed Jan. 16, 1946. O. G. July 2.
Pads or sheets, Absorbent. Cellucotton Products Company. 215,866; renewed July 27, 1946. O. G. July 2.

CLASS 45

Beverages, and extracts and flavors, Nonalcoholic maltless. Theall & Pile, Inc. 208,793; renewed Feb. 9, 1946. O. G. July 2.
Beverages, Nonalcoholic, maltless. Hudson Valley Pure Food Company, Inc. 210,006; renewed Mar. 9, 1946. O. G. July 2.

CLASS 46

Bread. S. B. Thomas, Inc. 215,997; renewed Aug. 3, 1946. O. G. July 2.
Breakfast food, Rye. Ry-Krisp Company. 216,163; renewed Aug. 3, 1946. O. G. July 2.
Butterin or oleomargarin. Braun & Fitts, Inc. 51,119; re-renewed Apr. 3, 1946. O. G. July 2.
Canned berries. Berry Growers Packing Co. 212,276; renewed Apr. 27, 1946. O. G. July 2.
Canned comminuted meats, sandwich spread, and comminuted form of food products. Libby, McNeill & Libby. 213,217; renewed May 25, 1946. O. G. July 2.
Canned oysters. Gibbs Preserving Company of Baltimore City. 54,167; re-renewed June 19, 1946. O. G. July 2.
Canned salmon. Roundup Grocery Company. 213,493; renewed June 1, 1946. O. G. July 2.
Cereal breakfast foods. Kellogg Company. 422,049; July 2; Serial No. 475,759; published Apr. 9, 1946.
Chewing-gum. American Chicle Co. 54,506; re-renewed June 26, 1946. O. G. July 2.
Chewing gum. Bon-Bon Company. 54,463; re-renewed June 26, 1946. O. G. July 2.
Covering for frozen confections, Candy. Eskimo Pie Corporation. 215,660; renewed July 20, 1946. O. G. July 2.
Doughnuts. J. C. Lunsford. 422,062; July 2; Serial No. 483,433; published Apr. 9, 1946.
Extract and malt hop extract, Malt. W. J. Gordon. 215,849; renewed July 27, 1946. O. G. July 2.
Feed, Chicken. Geis-Price Elevator Co., Inc. 214,883; renewed July 6, 1946. O. G. July 2.
Flour, Wheat. Russell-Miller Milling Co. 211,463; renewed Apr. 13, 1946. O. G. July 2.
Flour, Wheat. Russell-Miller Milling Co. 212,651; renewed May 11, 1946. O. G. July 2.
Flour, Wheat. Russell-Miller Milling Co. 212,723; renewed May 11, 1946. O. G. July 2.
Flour, Wheat. Russell-Miller Milling Co. 214,125; renewed June 15, 1946. O. G. July 2.
Flour, Wheat. Wichita Flour Mills Company. 215,722; renewed July 27, 1946. O. G. July 2.
Fruit in natural state, Florida citrous. R. D. Keene & Co. 209,704; renewed Mar. 2, 1946. O. G. July 2.
Fruits, Fresh citrus. J. Gill. 422,060; July 2; Serial No. 482,376; published Apr. 2, 1946.
Fruits, Fresh deciduous. Colfax Fruit Growers Association. 214,637; renewed June 29, 1946. O. G. July 2.
Fruits, fresh deciduous fruits, fresh berries, etc., Fresh citrous. American Fruit Growers Incorporated. 212,033; renewed Apr. 27, 1946. O. G. July 2.
Grapes, Fresh. J. D. Martin. 214,776; renewed July 6, 1946. O. G. July 2.
Mash, Laying. El Campo Rice Milling Company. 214,123; renewed June 15, 1946. O. G. July 2.
Olive oil. Maggioros & Rousos. 201,885; renewed Aug. 11, 1945. O. G. July 2.
Olives and olive oil. Olive Products Company. 214,880; renewed July 6, 1946. O. G. July 2.
Pickles. Squire Dingee Company. 53,500; re-renewed June 5, 1946. O. G. July 2.
Pickles. Squire Dingee Company. 210,183; renewed Mar. 9, 1946. O. G. July 2.
Potatoes, Shoe-string or French fried. Colorado Potato Flake and Manufacturing Company. 210,217; renewed Mar. 9, 1946. O. G. July 2.

CLASS 48

Ale. New England Brewing Company. 54,196; re-renewed June 19, 1946. O. G. July 2.
Ale. New England Brewing Company. 54,435; re-renewed June 26, 1946. O. G. July 2.
Beer. Ems Brewing Co. 422,120; July 2.
Beverage, Cereal malt. New England Brewing Co. 213,242; renewed May 25, 1946. O. G. July 2.
Beverage, Cereal malt. New England Brewing Co. 213,402; renewed May 25, 1946. O. G. July 2.
Wine, Malt. New England Brewing Company. 54,116; re-renewed June 19, 1946. O. G. July 2.

CLASS 49

Rum. Compania de Distillerias Internationales, Inc. 422,113; July 2.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lynch, E. P., Inc., assignee: *See*—
Lynch, John R.
Lynch, John R., Providence, R. I., assignor to E. P. Lynch, Inc. Luminous article and method. Re. 22,769; July 2.

Sjogren, Knut R., Los Angeles, Calif. Lapping block. Re. 22,770; July 2.

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc., assignee: *See*—
Lammerts, Walter E.
De Groot, Constant, Sheridan, Ontario, Canada, assignor to Jackson & Perkins Company, Newark, N. Y. Barberry plant. 703; July 2.
Howard, Frederick H., assignor to Howard & Smith, Montebello, Calif. Rose plant. 702; July 2.
Howard & Smith, assignee: *See*—
Howard, Frederick H.
Jackson & Perkins Company, assignee: *See*—
De Groot, Constant.

Lammerts, Walter E., West Los Angeles, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 704; July 2.
Schmidt, Paul J., Youngstown, assignor to The Wayside Gardens Company, Mentor, Ohio. Buddleia plant. 705; July 2.
Schmidt, Paul J., Youngstown, assignor to The Wayside Gardens Company, Mentor, Ohio. Buddleia plant. 706; July 2.
Wayside Gardens Company, The, assignee: *See*—
Schmidt, Paul J.

LIST OF DESIGN PATENTEES

Alvin Corporation, The, assignee: *See*—
Price, James R.
Bercu, Herman A., Palo Alto, Calif. Smoking pipe. 145,113; July 2.
Brinson, Thomas F., assignor to Scripto Manufacturing Company, Atlanta, Ga. Fountain pen. 145,114; July 2.
Brinson, Thomas F., assignor to Scripto Manufacturing Company, Atlanta, Ga. Fountain pen. 145,115; July 2.
Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna. 145,116; July 2.
Byrd, Richard L., Dallas, Tex. Theater sign. 145,117; July 2.
Byrer, Ralph W., Rockford, Ill. Game board. 145,118; July 2.
Caplin, Ruth S., assignor to Kaylon Incorporated, New York, N. Y. Fabric. 145,119; July 2.
Conroy, Edward J., assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 145,120; July 2.
Cookson, Lola, St. Louis, Mo. Combined clock and kiddie schedule. 145,121; July 2.
Crain, Lawrence B., Los Angeles, Calif. Combined pencil and calendar. 145,122; July 2.
Dubey, Gertrude, New York, N. Y. Combined cigarette tray and holder. 145,123; July 2.
Engineers, Incorporated, assignee: *See*—
Overath, George N.
Fenton, Carl, Arcadia, Fla. Wind control weatherproof feed box or similar article. 145,124; July 2.
Feurer Bros., assignee: *See*—
Feurer, Robert.
Feurer, Robert, Jackson Heights, assignor to Feurer Bros., New York, N. Y. Cigarette lighter. 145,125; July 2.
Flynt, Robert C., Winston-Salem, N. C. Figure toy. 145,126; July 2.
Flynt, Robert C., Winston-Salem, N. C. Figure toy. 145,127; July 2.
Flynt, Robert C., Winston-Salem, N. C. Figure toy. 145,128; July 2.
Flynt, Robert C., Winston-Salem, N. C. Figure toy. 145,129; July 2.
Galter, Jack, Chicago, Ill. Cigar and cigarette lighter. 145,130; July 2.
Grossi, Frederick, Los Angeles, Calif. Table. 145,131; July 2.
Guild, Lurelle: *See*—
Smallwood, Albert E., and Guild.
Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Napkin or similar article. 145,132; July 2.
Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat or similar article. 145,133; July 2.
Hardy, Charles W., New York, N. Y. Earring. 145,134; July 2.
Hecht, Arno, Babylon, assignor to H. Schirokauer, New York, N. Y. Tricycle. 145,135; July 2.
Hill, C. V., & Company, Inc., assignee: *See*—
Hoffman, Cyrus F.
Hoffman, Cyrus F., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Self-service frosted food fixture. 145,136; July 2.
International Silver Company, assignee: *See*—
Conroy, Edward J.
Kaylon Incorporated, assignee: *See*—
Caplin, Ruth S.
Lolli, John, Chicago Heights, Ill. Electric lamp. 145,137; July 2.
Lolli, John, Chicago Heights, Ill. Electric lamp. 145,138; July 2.
Lowerre, George H., Balboa Island, Calif. Utility truck. 145,139; July 2.
Milwaukee Lace Paper Company, assignee: *See*—
Hamilton, Kenneth C.
Morrow, Frank, Johnston, R. I. Earring. 145,140; July 2.
O'Neill, Joseph V., New Orleans, La. Motor vehicle. 145,141; July 2.
Overath, George N., Belleville, assignor to Engineers, Incorporated, Irvington, N. J. Toy ferry boat. 145,142; July 2.
Pearson, Joseph T., Jr., Huntingdon Valley, Pa. Shoeshine box. 145,143; July 2.
Price, James R., Cranston, assignor to The Alvin Corporation, Providence, R. I. Fork or other article of flatware. 145,144; July 2.
Radio Corporation of America, assignee: *See*—
Brown, George H.
Riegel, Kermit R., Mount Rainier, Md. Airplane. 145,145; July 2.
Rosenblatt, Manfred, Kew Gardens, N. Y. Holder for cocktail or soda stirrers, pencils, or the like. 145,146; July 2.
Schirokauer, Henry, assignee: *See*—
Hecht, Arno.
Scripto Manufacturing Company, assignee: *See*—
Brinson, Thomas F.
Servel, Inc., assignee: *See*—
Smallwood, Albert E., and Guild.
Shell Oil Company, Inc., assignee: *See*—
Welke, Ferdinand G.
Smallwood, Albert E., Taunton, Mass., and L. Guild, Noroton, Conn., assignors to Servel Inc., New York, N. Y. Cooking stove. 145,147; July 2.
Welke, Ferdinand G., assignor to Shell Oil Company, Inc., San Francisco, Calif. Display counter. 145,148; July 2.
Welke, Ferdinand G., assignor to Shell Oil Company, Inc., San Francisco, Calif. Display counter. 145,149; July 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A.-B. Aerotransport, assignee: *See*—
Hoffström, Bo N.

Abbink-Spaink, Johann H., Jessmond, Newcastle-on-Tyne 2, and A. Spencer, Benwell, Newcastle-on-Tyne 5, assignors to Vickers-Armstrongs Limited, London, England. Hydraulic dashpot retarding device. 2,403,321; July 2.

Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Clutch structure for crawler tractors. 2,403,322; July 2.

Adlake Company, The, assignee: *See*—
Verhagen, Christian M.

Adreon, Carroll E., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Tube bending tool. 2,403,323; July 2.

Aelony, David, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Surface-active agents. 2,403,038; July 2.

Ahrens, Robert S., and W. A. Ellsworth, assignors to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator shelf. 2,403,164; July 2.

Albrecht, George F., Whitinsville, Mass. Spinning and twisting ring. 2,403,253; July 2.

Allen Property Custodian, *See*—
Hintze, Rudolf.
Seppeler, Eduard.

Allegheny Ludlum Steel Corporation, assignee: *See*—
Touceda, Enrique G., and De Vries.

Allen, Glenn L., Jr., Freeport, Tex., and R. Heitz, Antioch, and G. Henderson, Pittsburg, Calif., assignors to The Dow Chemical Company, Midland, Mich. Chlorination of saturated hydrocarbons and recovering hydrochloric acid. 2,402,978; July 2.

Aluminum Company of America, assignee: *See*—
Laing, Kenneth M.
Miller, Mike A.
White, Wayne E.

American Chemical Paint Company, assignee: *See*—
Douty, Alfred, and Romig.
Saukaitis, Albert J.

American Cyanamid Company, assignee: *See*—
Lecher, Hans Z., Scalera, and Lester.

American Laundry Machinery Company, assignee: *See*—
Preston, John E.

American Lecithin Company, assignee: *See*—
Jacobs, Joseph J.

American Steel Foundries, assignee: *See*—
Edstrom, Carl A.

American Viscose Corporation, assignee: *See*—
Stanley, Richard W. and Lowe.

Anchor Manufacturing Company, assignee: *See*—
Sparkes, Harry P., and Johansson.

Anderson, George C., Great Neck, N. Y. Adjustable saddle cleaning horse. 2,403,324; July 2.

Anderson, John: *See*—
McAllister, Sumner H., Anderson, and Ross.

Anderson, Richard H.: *See*—
Hertzell, Emanuel A., and Anderson.

Anemostat Corporation of America, assignee: *See*—
Kurth, Franz J.

Armington, George E., South Euclid, assignor to The Euclid Road Machinery Co., Euclid, Ohio. Booster steering device. 2,403,325; July 2.

Arvey Corporation, assignee: *See*—
Schaeffer, Harvey E.

Aspin, Frank M., Bury, England. Bearing surface for tapered rotary valves of engines and pumps. 2,403,165; July 2.

Auslander, Henry, and I. M. Krischer, Brooklyn, N. Y. Closure fastener device. 2,402,939; July 2.

Austin Motor Company Limited, The, assignee: *See*—
Charles, Hubert N.

Ayres, Reginald J.: *See*—
Geiger, Walter J., and Ayres.

B. B. Chemical Co., assignee: *See*—
Nugent, Frederick V.

Bacon, Leslie R.: *See*—
Wegst, Walter F., Bacon, and McNabney.

Baer, Massimo, Plainfield, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Dielectric composition. 2,403,205; July 2.

Baer, Massimo, Plainfield, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Dielectric composition and making same. 2,403,206; July 2.

Baker, David B., Riverside, and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Bearing lubrication. 2,403,326; July 2.

Baker, Marlin S., Evansville, assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,403,039; July 2.

Baker Perkins Limited, assignee: *See*—
Tunley, Allan A.

Baker, Thomas T., Pinner, England. Manufacture of photographic emulsions. 2,403,327; July 2.

Ballard, Herman E., Berkeley, Calif. Plastic packing. 2,403,166; July 2.

Ballard, Herman E., Berkeley, Calif. Lubricant. 2,403,167; July 2.

Banning, Alfred J., assignor to A. C. Wickman Limited, Coventry, England. Hydraulic mechanism. 2,403,328; July 2.

Barium Steel Corporation, assignee: *See*—
Smith, Arthur D.

Barrick, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and products. 2,403,207; July 2.

Barto, Luther A., Allentown, Pa. Hydraulic lathe center. 2,402,979; July 2.

Bates, James E.: *See*—
Mueller, Fritz W., and Bates.

Battley, Edwin R. and G. E. McCoy, Montreal, Quebec, Canada. Railway refrigerator car structure. 2,402,980; July 2.

Bausch & Lomb Optical Company, assignee: *See*—
Swope, Joe E., Jr., Turner, and Ulrich.
Young, Roger D.

Bayley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Color photography. 2,403,040; July 2.

Bayley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. 1-substituted-2, 5-diketo-7-methyl-pyrimidopyrazoles as couplers for color photography. 2,403,329; July 2.

Beach, Ralph M.: *See*—
Rossiter, Laurence E., and Beach.

Beal, George D., Pittsburgh, Pa., and C. Y. Emery, Westfield, N. J., assignors to Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Bandage package. 2,402,981; July 2.

Bechler, André, Moutier, Switzerland. Disengaging coupling. 2,403,208; July 2.

Bechman, William O.: *See*—
Baker, David B., and Bechman.

Beck, Rudolf, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Differential pressure gauge. 2,403,256; July 2.

Becker, John E., Toronto, Ontario, Canada. Snow removal apparatus. 2,403,257; July 2.

Behr-Manning Corporation, assignee: *See*—
Oglesby, Nicholas E.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Caughey, William K., and Swartzel.
Hampton, Leon N.
McCann, Thomas A.
Reynolds, Frederick W.
Samuel, Arthur L.

Bemis Bro. Bag Company, assignee: *See*—
Williams, Russell J., and Littlefield.

Bendix Aviation Corporation, assignee: *See*—
Bevins, James E.
Lawrence, Donald M.

Benton, Dudley C., assignor, by decree of court, of one-half to M. E. Warren, San Diego, Calif. Blind fastening bolt and nut. 2,403,330; July 2.

Berry, Norton E., Newburg, Ind., and R. E. Kremers, Summit, assignors to General Foods Corporation, Hoboken, N. J. Treating cashew nut shell liquid. 2,402,940; July 2.

Best, Charles D., Portland, Oreg. Processing vegetable fibers. 2,403,331; July 2.

Bevins, James E. Hackensack, assignor to Bendix Aviation Corporation, Teterboro, N. J. Regulator. 2,403,332; July 2.

Beyerink, Leo J., Union Township, Carroll County, Iowa. Post-hole digger. 2,403,041; July 2.

Birch, George W.: *See*—
Crowell, Walter S., and Birch.

Bixby, Harold S., East Haven, Conn. Lamp socket. 2,402,941; July 2.

Bjerke, Edwin, Wallace, Idaho. Safety means for mine cages. 2,403,333; July 2.

Blanchard, Ralph A., Portland, Oreg. Electric water heater. 2,403,334; July 2.

Bliss, Harold D.: *See*—
Nagel, Theodore, and Bliss.

Bludworth, Joseph E., Cumberland, Md., assignor to Celanese Corporation of America. Cellulose derivative compositions. 2,402,942; July 2.

Bogoslowsky, Boris, Jackson Heights, N. Y. Container. 2,402,943; July 2.

Bogoslowsky, Boris, Jackson Heights, N. Y. Apparatus for making collapsible tubes. 2,403,042; July 2.

Bolas, John T., R. W. Edwards, and W. J. Latty, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Machine for producing convex surfaces. 2,403,168; July 2.

Bolens, Harry W., Port Washington, Wis., assignor, by mesne assignments, to The Seng Company, Chicago, Ill. Tiltable chair. 2,403,425; July 2.

Borg-Warner Corporation, assignee: *See*—
Kilpela, Ano E.

Bortolotti, William, Detroit, Mich. Fixture for spreading mortar on glass blocks. 2,403,335; July 2.

Boumphrey, Geoffrey M., Pershore, England. Agricultural implement. 2,403,209; July 2.

Bowersox, Joseph W., St. Petersburg, Fla., assignor to Sealy, Incorporated, Memphis, Tenn. Mattress. 2,403,043; July 2.

Boyles, William H., Columbiana, Ohio. Wrench. 2,403,258; July 2.

Bradt, Charles H., Groton, assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Duplicating machine. 2,403,259; July 2.

Braloff, Henry E., Rockville Centre, N. Y. Container. 2,402,944; July 2.

Bransky, David W.: *See*—
Lemmon, Norman E., Bransky, and Langan.

Breen, Thomas H., assignor of one-half to C. A. Kennedy, Buffalo, N. Y. Furnace device. 2,403,044; July 2.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Bolas, John T., Edwards, and Latty.

British Celanese Limited, assignee: *See*—
Olpin, Henry C., and Gibson.

British Cotton Industry Research Association, The, assignee: *See*—
Locke, John.

Brocker, Emil, Van Dyke, assignor to Super Tool Company, Warren Township, Macomb County, Mich. Grinding wheel dressing device. 2,402,945; July 2.

Brogdex Company, assignee: *See*—
Cunning, Thomas G.

Brown, Harry F., Chicago, Ill. Boring chuck. 2,403,336; July 2.

Brown, Michael A., San Francisco, Calif. Egg cleaning device. 2,402,946; July 2.

Brown, William C., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Electronic discharge tube. 2,402,983; July 2.

Browne, Jack, Milwaukee, Wis., assignor to Diving Equipment and Supply Company, Inc. Self-contained breathing lung. 2,402,984; July 2.

Bryant Electric Company, The, assignee: *See*—
Smith, Roy M.

Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Car truck. 2,403,045; July 2.

Budd, Edward G., Manufacturing Company, assignee: *See*—
Diamond, Arthur R., and Stever.
Ulrich, Theodore.

Bulbulian, Arthur H., Rochester, Minn. Mask construction. 2,403,046; July 2.

Bunn, Edward S.: *See*—
Wilkins, Richard A., and Bunn.

Bunn, Edward S., Rome, N. Y., assignor to Revere Copper and Brass Incorporated. Zinc base alloys. 2,403,337; July 2.

Burch, Charles J., Plainfield, N. J., assignor to The Linde Air Products Company. Flux-forming fuel and thermally working minerals therewith. 2,402,947; July 2.

Burch, Ray C., assignee, et al.: *See*—
Francis, Wilbur C.

Burk, Robert E., assignor to The Standard Oil Company, Cleveland, Ohio. Flushing liquid for cleaning internal-combustion engines. 2,403,169; July 2.

Burt, F. N., Company, Inc., assignee: *See*—
Smith, William A.

Bussiere, George E.: *See*—
Chapman, James E., and Bussiere.

Butement, William A. S., and A. J. H. Oxford, London, England. Multiplex pulse modulation system. 2,403,210; July 2.

Butler, Harold G., Oxford, assignor to Harris and Sheldon Limited, Birmingham, and Joseph Sankey & Sons Limited, Bilston, Staffordshire, England. Positioning drawing-layout tables. 2,403,338; July 2.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Carton or container. 2,403,047; July 2.

Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Press. 2,403,339; July 2.

Calcium Carbonate Company, assignee: *See*—
McHan, Brack B.

Caldbeck, Charles J., Bradford, assignor to The English Electric Company Limited, London, England. Electric motor control system. 2,403,048; July 2.

Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Insulated conducting member and applying the insulation. 2,403,340; July 2.

Carlson, Carl A., Worcester, Mass., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,403,341; July 2.

Carlson, Harold A.: *See*—
Moseley, James T. W., Carlson, and Szwargulski.

Carlson, Wendell L., Haddonfield, N. J., assignor to Radio Corporation of America. Tuning arrangement. 2,402,948; July 2.

Carmichael, Asa B., Sr., Tujunga, Calif. Mechanical toy high diving apparatus. 2,402,949; July 2.

Carstens, Fritz A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making crankshafts by electric welding. 2,403,049; July 2.

Carter Carburetor Corporation, assignee: *See*—
Moseley, James T. W., Carlson and Szwargulski.

Carver Cotton Gin Company, Division of The Murray Company, assignee: *See*—
Graebe, Herman C.

Cash, Charles R. P., Canton, N. C. Agitator for cascade evaporators. 2,403,211; July 2.

Castedello, William: *See*—
Schwartz, Morris, and Castedello.

Caughey, William K., Madison, and K. D. Swartzel, Murray Hill, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recorder. 2,402,985; July 2.

Celanese Corporation of America, assignee: *See*—
Bludworth, Joseph E.

Central Commercial Company, assignee: *See*—
Larsen, Merwin J.

Central Scientific Company, assignee: *See*—
Hornberger, Carl S.

Chambers, Francis S., Jr., Woodbury, N. J., and R. N. Gartside, St. Louis, Mo., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentration of nitric acid. 2,403,050; July 2.

Chapman, James E., Los Angeles, and G. A. Bussiere, assignors to North American Aviation, Inc., Inglewood, Calif. Ammunition feed booster. 2,403,170; July 2.

Charles, Hubert N., Edgbaston, Birmingham, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England. Valve guide of internal-combustion engine. 2,403,260; July 2.

Chesebrough Manufacturing Company, Consolidated, assignee: *See*—
Beal, George D. and Emery.
Steenbergen, Charles.

Christensen, Paul M., West Hartford, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J. Circuit breaker construction. 2,403,051; July 2.

Clark, Llewellynn J., assignor to The Tanglefoot Company, Grand Rapids, Mich. Filter. 2,403,261; July 2.

Clayton, Benjamin, assignee: *See*—
Thurman, Benjamin H.

Codet, Howard G.: *See*—
Hill, Ralph M., and Codet.

Cole, Robert M., and I. I. Shultz, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Effecting catalytic dehydrogenation processes. 2,403,052; July 2.

Colley, Russell S., Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tool for collapsing hollow rivets. 2,403,262; July 2.

Collier-Keyworth Company, assignee: *See*—
Sheldrick, Henry W., and Hoglund.

Collins, Calhoun, Bakersfield, Calif. Combined leg rest and table. 2,403,263; July 2.

Combustion Engineering Company, assignee: *See*—
Powell, E. M., and Patterson.

Compo Shoe Machinery Corporation, assignee: *See*—
Taylor, Thomas T.

Concepcion, Alberto A., Detroit, Mich. Kite. 2,403,212; July 2.

Conklin, James W., Indianapolis, Ind., assignor to Radio Corporation of America. Remote control system. 2,403,053; July 2.

Continental Can Company, assignee: *See*—
Punte, William F.

Continental Oil Company, assignee: *See*—
Zurcher, Paul.

Cook, Fay V., and J. R. Polston, assignors to Stanolind Pipe Line Company, Tulsa, Okla. Bearing adjusting means. 2,403,171; July 2.

Cooley, Austin G.: *See*—
Dillenback, Garett V., and Cooley.

Cooper, Peter, Corporation, assignee: *See*—
Tutt, Richard, Jr., Hubbard, and McKee.

Cormier, Louis A., West Hempstead, N. Y. Jeweler's wrench. 2,403,264; July 2.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Baer, Massimo.

Craig, Burnie J., Los Angeles County, Calif. Making cellular systems. 2,403,265; July 2.

Craig, David, Silver Lake Village, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Separation of conjugated diolefin isomers. 2,403,054; July 2.

Crane Packing Company, assignee: *See*—
Payne, Frank E.

Crecelius, Samuel B.: *See*—
Rheineck, Alfred E., and Crecelius.

Crowell, Walter S., Melrose Park, and G. W. Birch, Upper Darby, assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Molding resins of vinyl type. 2,403,172; July 2.

Culver, Merlyn M., and L. L. Duncan, Dayton, Ohio. Molded part and forming. 2,402,950; July 2.

Cumming, James M.: *See*—
Hill, Allan W., and Cumming.

Cunning, Thomas G., Upland, assignor to Brogdex Company, Pomona, Calif. Coating apparatus. 2,402,986; July 2.

Cunningham, Richard C., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,403,055; July 2.

D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Synthetic resin bonded abrasive. 2,403,213; July 2.

Daly, Thomas A., Sharpsville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Starting device. 2,403,056; July 2.

Dalzen, Frederick R., assignee, et al.: *See*—
Dalzen, William F.

Dalzen, Louelle M., assignee, et al.: *See*—
Dalzen, William F.

Dalzen, William F., Lennox, assignor to L. M., W. R., and F. R. Dalzen, Detroit, Mich., trustees. Grinding wheel edge dresser. 2,403,266; July 2.

Dalzen, William R., assignee, et al.: *See*—
Dalzen, William F.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 2,402,987; July 2.

Davis, Charles A., Peoria, Ill. Mooring device. 2,403,057; July 2.

Davis, Ernest W., River Forest, Ill. Lubricating device. 2,403,058; July 2.

Davis, Garland H. B., Elizabeth, N. J., assignor to Standard Oil Development Company. Diesel fuels. 2,403,267; July 2.

Davis, Garland H. B., Elizabeth, W. J. Sweeney, Summit, and W. A. Herbst, Union, N. J., assignors to Standard Oil Development Company. Fuels for aircraft engines. 2,403,268; July 2.

Day, Roland B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,403,342; July 2.

De Castro, Arthur: *See*—
Robinson, Edwin A., and De Castro.

Deere & Company, assignee: *See*—
Strandlund, Carl G.

Deere, John, Tractor Company, assignee: *See*—
Worthington, Wayne H.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and making same. 2,403,343; July 2.

De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and making same. 2,403,344; July 2.

De Groote, Melvin, University City, B. Keiser, Webster Groves, and A. F. Wirtel, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Composition of matter and making same. 2,403,345; July 2.

Deiters, August M., assignor to Southern Wood Preserving Company, Atlanta, Ga. Grapple for handling crossties and the like. 2,403,346; July 2.

De Pew, Chester C., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Speed-change mechanism. 2,402,951; July 2.

Depp, Marlin C., Hempstead, and C. F. Fragola, Brooklyn, N. Y., assignors to Sperry Gyroscope Company, Inc. Flux valve. 2,403,347; July 2.

Devoe & Raynolds Company, Inc., assignee: *See*—
Rheineck, Alfred E., and Crecelius.

De Vries, Ralph P.: *See*—
Toueeda, Enrique G., and De Vries.

Diamond, Arthur R., and W. Stever, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Roller guide. 2,402,952; July 2.

Dickinson, Arthur H., Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Accounting apparatus. 2,402,988; July 2.

Dickinson, Arthur H., Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Accumulating apparatus. 2,402,989; July 2.

Dillenback, Garett V., Jr., Slingerlands, and A. G. Cooley, Hudson View Gardens, assignors, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y. Secrecy telefacsimile system. 2,403,059; July 2.

Dinetz, Adolph M., Detroit, Mich. Washing machine. 2,403,348; July 2.

Diving Equipment and Supply Company, Inc., assignee: *See*—
Browne, Jack.

Dixon, Joseph, Crucible Company, assignee: *See*—
Nichols, Charles R., and Simpson.

Dodd, Bertha A., Washington, D. C. Hair treating machine. 2,403,350; July 2.

Doerner, Max, New York, N. Y. Water heating unit. 2,403,173; July 2.

Dolberg, Charles E., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Combination coil and condenser. 2,403,349; July 2.

Dominion Engineering Works, Limited, assignee: *See*—
Muir, William P.

Douty, Alfred, Elkins Park, and G. C. Romig, Melrose Park, assignors to American Chemical Paint Company, Ambler, Pa. Metal coating process. 2,403,426; July 2.

D'Ouville, Edmond L.: *See*—
Hull, Carl M., and d'Ouville.

Dow Chemical Company, The, assignee: *See*—
Allen, Glenn L., Jr., Heitz, and Henderson.

Downes, Daniel T., Creighton, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Installation for laminated glass. 2,403,060; July 2.

Downes, Daniel T., Creighton, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Window construction. 2,403,061; July 2.

Drissner, Alfred E., assignor to The National Acme Company, Cleveland, Ohio. Alternating cutoff chucking machine. 2,402,990; July 2.

Duncan, Lyle L.: *See*—
Culver, Merlyn M., and Duncan.

Dunham, Walter A., United States Army. Suction pump. 2,402,991; July 2.

Dunlop Rubber Company Limited, assignee: *See*—
Trevaskis, Henry W.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Barrick, Paul L.
Chambers, Francis S., Jr., and Gartside.
Foster, Harlan.
Hershberger, Albert.
Johnson, Charles R.
Steele, Sydney.
Watson, Frederick K.

Durand, Oscar J., Hall, Mont. Sweep rake. 2,403,351; July 2.

E. A. Laboratories, Inc., assignee: *See*—
Meyerhoefer, Carl E.

Eastman Kodak Company, assignee: *See*—
Kenyon, William O., Murray, and Minsk.
Martin, Louis D.

Eddy, William H., Downers Grove, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,403,269; July 2.

Eddy, William H., Downers Grove, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,403,270; July 2.

Edison, Thomas A., Incorporated, assignee: *See*—
Gardenier, Clyde B.

Edstrom, Carl A., Chicago, Ill., assignor to American Steel Foundries. Snubber. 2,403,352; July 2.

Edwards, James H., London, England, assignor to The Goss Printing Press Company, Chicago, Ill. Delivery mechanism for printing machines. 2,403,062; July 2.

Edwards, Raymond W.: *See*—
Bolas, John T., Edwards, and Latty.

Elliott, Francis P., Toronto, Ontario, Canada. Control system. 2,402,992; July 2.

Ellsworth, Walter A.: *See*—
Ahrens, Robert S., and Ellsworth.

Elmer, William B., Lakewood, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch. 2,403,063; July 2.

Elmer, William B., Lakewood, Ohio, and R. R. Rimer, Sharon, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rudder control system. 2,403,064; July 2.

Emery, Cyril Y.: *See*—
Beal, George D., and Emery.

Emsco Derrick & Equipment Company, assignee: *See*—
Hilborn, Howard D.

Engert, Harry, Chicago, Ill. Latch. 2,403,065; July 2.

English Electric Company Limited, The, assignee: *See*—
Caldbeck, Charles J.

Erickson, John E., East Grand Forks, Minn. Harvester. 2,403,271; July 2.

Ernest, James, New York, N. Y. Auxiliary propeller for airplanes. 2,403,353; July 2.

Ernst, Robert C., Louisville, Ky., assignor, by mesne assignments, to General American Transportation Corporation, Chicago, Ill. Treatment of fish water. 2,403,174; July 2.

Esdaile, Edward W., Sydney, New South Wales, Australia. Suspension for compasses and similar instruments. 2,403,354; July 2.

Eskin, Samuel G.: *See*—
Strobel, Charles K., and Eskin.

Euclid Road Machinery Co., The, assignee: *See*—
Armington, George E.

Evans, John, Kingston, N. J., assignor to Radio Corporation of America. System for forming images of heat-radiating objects. 2,403,066; July 2.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Moore, David W., Jr.
Roters, Herbert C.

Fairchild Engine and Airplane Corporation, assignee: *See*—
De Pew, Chester C.

Falla, Fernando, Maplewood, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Steam generator. 2,402,993; July 2.

Farrington, Robert K.: *See*—
Farrington, Thayer B., Keller, and Farrington.

Farrington, Thayer B., Cleveland Heights, W. T. Keller, Cleveland, and R. K. Farrington, Cleveland Heights, assignor to The Thompson Electric Company, Cleveland, Ohio. Lamp supporting means. 2,403,355; July 2.

Federal Electric Products Company, Inc., assignee: *See*—
Christensen, Paul M.

Federal Telephone & Radio Corporation, assignee: *See*—
Saslaw, Otto.

Feld, Bernard D., Birmingham, Ala. Hydraulic scale. 2,403,204; July 2.

Ferguson, Harry R.: *See*—
Patrick, Joseph C., and Ferguson.

Fiddler, Albert A., assignor of one-half to G. K. Huff, Renton, Wash. Hydraulic drive. 2,403,214; July 2.

Fischer, Paul W., Long Beach, and V. N. Jenkins, Palos Verdes Estates, assignors to Union Oil Company of California, San Francisco, Calif. Anticorrosion composition. 2,403,067; July 2.

Fitzsimmons, William J., Chicago, Ill. Journal lubricator. 2,402,953; July 2.

Food Machinery Corporation, assignee: *See*—
Hait, James M., and Keesling.
Kalmar, Arthur F., and Stilwell.
Rankin, Dan R.

Foster, Harlan, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resinous compositions and electrical conductors insulated therewith. 2,403,215; July 2.

Foster Wheeler Corporation, assignee: *See*—
Falla, Fernando.

Fragola, Caesar F.: *See*—
Depp, Marlin C., and Fragola.

Fraim, Everett G.: *See*—
Gerhard, Anthony E., and Fraim.

Francis, Alfred W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Separation of isomeric paraffins. 2,402,954; July 2.

Francis, Wilbur C., Lees Summit, assignor of one-fourth to R. C. Burch and one-half to United Brick & Tile Company, Kansas City, Mo. Hydraulic lift asssembly attachments. 2,403,356; July 2.

Frantz, John F., Chicago, Ill. Paperhanger's tool. 2,402,994; July 2.

Franz, Arvel O., Alton, Ill., and L. H. Juel, St. Louis, Mo., assignors to Olin Industries, Inc. Manufacture of chemical compounds. 2,403,068; July 2.

Freer, Clyde P., assignor to The Halsey W. Taylor Company, Warren, Ohio. Water cooling apparatus. 2,403,272; July 2.

Friden Calculating Machine Co., Inc., assignee: *See*—
Friden, Carl M., and Machado.
Friden, Carl M., and Moody.
Moody, John L.

Friden, Carl M., Pleasanton, and J. L. Moody, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Calculating machine. 2,403,069; July 2.

Friden, Carl M., Pleasanton, and A. B. Machado, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Calculating machine. 2,403,273; July 2.

Frischmann, George: *See*—
Murray, Thomas E., Phelps, and Frischmann.

Froelich, Herman C., Cleveland, Ohio, assignor to General Electric Company. Luminscent material. 2,402,955; July 2.

Fulton, John W., Wickliffe, Ohio, assignor to General Electric Company. Filament joint for electric lamps or similar devices. 2,403,070; July 2.

Fyfe, Charles E., Pittsburgh, Pa. Pendant suspension. 2,402,956; July 2.

Gardenier, Clyde B., Belleville, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Caustic products. 2,403,071; July 2.

Garraway, George H., Westfield, N. J., assignor, by mesne assignments, to H. K. Porter Company, Inc., Pittsburgh, Pa. Centrifugal pump. 2,402,995; July 2.

Garrett, Robert E., Nashville, Tenn. Geared center raiser for lathes. 2,403,357; July 2.

Gartside, Robert N.: *See*—
Chambers, Francis S., Jr., and Gartside.

Gates, Henry S., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical induction apparatus. 2,403,072; July 2.

Gaw-O'Hara Envelope Company, assignee: *See*—
Kelley, Daniel E.

Geddes, George A., Minneapolis, Minn. Airplane rotary wing. 2,402,957; July 2.

Geiger, Walter J., Cleveland Heights, and R. J. Ayres, Shaker Heights, Ohio, assignors to General Electric Company. Method and apparatus for gas filling and tipping-off envelopes. 2,403,073; July 2.

Geissman, Gladys W., assignor to Merry Hull & Company, New York, N. Y. Scarf. 2,402,996; July 2.

General Aniline & Film Corporation, assignee: *See*—
Bayley, Abraham.
Mueller, Fritz W. H., and Bates.

General Electric Company, assignee: *See*—
Camilli, Guglielmo.
Froelich, Herman C.
Fulton, John W.
Geiger, Walter J., and Ayres.
Hurd, Dallas T.
Jackson, Frederick R., Jr.
Lemmers, Eugene.
Morey, Arthur H., and Howard.
Morey, Robert L.
Oday, Arthur B.
Peterson, Justin.
Roper, Val J.
Strickland, Royal F.
Traver, Oliver C.

General Foods Corporation, assignee: *See*—
Berry, Norton E., and Kremers.

General Motors Corporation, assignee: *See*—
Sampson, Frederick W., and Hyde.

General Railway Signal Company, assignee: *See*—
Judge, Thomas J.
Preston, Neil D.

Geren, Philip, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Chuck. 2,403,100; July 2.

General Machinery Corporation, assignee: *See*—
Byerlein, Arthur A.

Gerhard, Anthony E., Los Angeles, Calif., and E. G. Fraim, Hicksville, N. Y., assignors to Press Wireless, Inc., Chicago, Ill. Facsimile transmitting and reproducing system, method, and apparatus. 2,403,358; July 2.

Gerhold, Alfred, Westcliff-on-Sea, England. Screw. 2,403,359; July 2.

Gershen, William R., Larchmont, N. Y. Shoulder pad. 2,403,274; July 2.

Gibson, Sydney A.: *See*—
Olpin, Henry C., and Gibson.

Gilliam, Thomas B., Washington, D. C. Refrigerating apparatus. 2,403,275; July 2.

Globus, Alfred R., Brooklyn, N. Y. Producing acetaldehyde. 2,402,958; July 2.

Goldsmith, Bertram J., Neshanic, N. J. Hypodermic injection device. 2,403,074; July 2.

Goodrich, B. F., Company, The, assignee: *See*—
Colley, Russell S.
Craig, David.

Gordon, Robert B.: *See*—
Scott, Howard, and Gordon.

Goss Printing Press Company, The, assignee: *See*—
Edwards, James H.

Gottlieb, Elias, New York, N. Y. Remover for sweep wheels or the like for repairing watches. 2,403,216; July 2.

Grade Crossing Guard Corporation, assignee: *See*—
Nampa, Sulo M.

Graebe, Herman C., Bridgewater, assignor to Carver Cotton Gin Company, Division of The Murray Company, East Bridgewater, Mass. Lathe adapter. 2,403,175; July 2.

Graham, William S., Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,403,360; July 2.

Granular Foods, Inc., assignee: *See*—
Heyman, Wilbert A.

Grayson, John H., assignor to Lowell & Grayson, Monrovia, Calif. Cooking utensil and its heating means. 2,402,997; July 2.

Green, Arthur, Coventry, England. Machine for producing screw threads. 2,403,075; July 2.

Green, Arthur D., Cranford, N. J., assignor to Standard Oil Development Company. Chemical process. 2,403,276; July 2.

Griffith, Alan A., assignor to Rolls-Royce Limited, Derby, England. Bearing. 2,403,176; July 2.

Gustafson, Hilding B., Hinsdale, assignor to Infilco Incorporated, Chicago, Ill. Sugar treatment. 2,403,177; July 2.

Gustafson, Hilding B., Hinsdale, and E. Kominek, Jr., assignors to Infilco Incorporated, Chicago, Ill. Removal of boron from boron polluted substances. 2,402,959; July 2.

Gustafson, Hilding B., Hinsdale, and L. A. Paley, Glenn Ellyn, assignors to Infilco Incorporated, Chicago, Ill. Clarifying sugar solutions. 2,402,960; July 2.

Hagen, John, Overland, Mo. Curtain or drapery tieback. 2,403,361; July 2.

Hait, James M., San Gabriel, and T. B. Keesling, assignors to Food Machinery Corporation, San Jose, Calif. Running gear. 2,403,362; July 2.

Hale, William J., assignor of one-half to J. C. Lipps, Wise, Va. Wheeled vehicle. 2,403,217; July 2.

Hall, Glen R., Urichsville, Ohio. Traffic counter. 2,403,277; July 2.

Hamilton, Francis E.: *See*—
Lake, Clair D., and Hamilton.

Hampton, Leon N., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wiping plate. 2,402,998; July 2.

Hanners, Harvey W., Springfield, Ohio, assignor to the National Supply Company, Pittsburgh, Pa. Cooling system for internal-combustion engines. 2,403,218; July 2.

Hanson, Albert L. and C. A., Munising, Mich. Snow plow shoe hitch. 2,403,219; July 2.

Hanson, Charles A.: *See*—
Hanson, Albert L. and C. A.

Hanson, Edward S., Jr., Zion, Ill. Cylinder ridge grinder. 2,403,363; July 2.

Harbaugh, Ralph W., Miles City, Mont. Current motor. 2,403,178; July 2.

Harnischfeger Corporation, assignee: *See*—
Hettelsater, Henry C.

Harper, Carolyn L., assignee, et al.: *See*—
Turner, George F.

Harper, Carolyn L., Trust, assignee, et al.: *See*—
Turner, George F.

Harper, Philip S., assignee, et al.: *See*—
Turner, George F.

Harper, Philip S., Trust, assignee, et al.: *See*—
Turner, George F.

Harris and Sheldon Limited, assignee: *See*—
Butler, Harold G.

Harris Trust and Savings Bank, trustee, assignee, et al.: *See*—
Turner, George F.

Harsh, C. L., assignee: *See*—
Kenworthy, Max S.

Hazeltine Research, Inc., assignee: *See*—
Loughlin, Bernard D.
Wheeler, Harold A.

Heath, Edward H.: *See*—
Santini, Danilo, and Heath.

Heath, William C., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric flash welding. 2,403,076; July 2.

Heitz, Robert: *See*—
Allen, Glenn L., Jr., Heitz, and Henderson.

Heitzman Safety Blasting Plug Corp., assignee: *See*—
Lubelsky, Benjamin L., and Walburn.

Henderson, George: *See*—
Allen, Glenn L., Jr., Heitz, and Henderson.

Herbst, Walter A.: *See*—
Davis, Garland H. B., Sweeney, and Herbst.

Hershberger, Albert, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Laminated structure and method. 2,403,077; July 2.

Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Cathode-ray sweep circuit. 2,403,278; July 2.

Hertzell, Emanuel A., and R. H. Anderson, Dover, Ohio, assignors to The Robinson Clay Product Company, Akron, Ohio. Gasket. 2,403,364; July 2.

Hettelsater, Henry C., Whitefish Bay, assignor to Harnischfeger Corporation, Milwaukee, Wis. Excavating tooth. 2,403,078; July 2.

Hewlett, Amiot P., Cranford, N. J., assignor to Standard Oil Development Company. Production of high octane number fuels. 2,403,279; July 2.

Heyman, Wilbert A., assignor to Granular Foods, Inc., New York, N. Y. Dehydrated caramel color. 2,402,999; July 2.

Hicks, Raymond M., Westfield, N. J., assignor to The Teleregister Corporation, New York, N. Y. Secret telegraph system. 2,403,280; July 2.

Higgins, Waldo W., Whitefish Bay, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis. Joinder of porcelain enameled products. 2,403,079; July 2.

Hight, William R., St. Albans, N. Y., and B. A. Wittkuhns, Summit, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic correction device for gyroscopic compasses. 2,403,000; July 2.

Hilblom, Samuel E., Chicago, Ill., assignor to International Harvester Company. Mower. 2,403,365; July 2.

Hilborn, Howard D., Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Raising and lowering portable derricks. 2,403,080; July 2.

Hilborn, Howard D., Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Portable derrick. 2,403,081; July 2.

Hill, Allan W., Wilkinsburg, and J. M. Cumming, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,403,082; July 2.

Hill, Ralph M., and H. G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company. Manufacture of cyclopentanes. 2,403,281; July 2.

Hill, William H., Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Perthiocyanic metal pigments. 2,402,961; July 2.

Hill, William H., Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Perthiocyanic-acid pigment. 2,402,962; July 2.

Hintze, Rudolf, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Refrigerating apparatus of the compression type. 2,403,220; July 2.

Hoag, James L., Bloomfield, Iowa. Insect deflector. 2,402,963; July 2.

Hoffström, Bo N., Malmo, assignor to A.-B. Aerotransport, Stockholm, Sweden. Device for supplying starting fuel. 2,402,964; July 2.

Hoglund, William P.: *See*—
Sheldrick, Henry W., and Hoglund.

Holmes, Frederick J., Detroit, Mich. Internal-combustion engine. 2,403,282; July 2.

Holmes, Henry H.: *See*—
Wildt, Edwin, Holmes, and Hurd.

Hornberger, Carl S., Glen Ellyn, Ill., assignor to Central Scientific Company. Timing device. 2,402,965; July 2.

Horvat, Kalman, New York, N. Y. Jaw gauge for dental treatment. 2,403,366; July 2.

Householder, Leland E.: *See*—
Zeigler, Paul P., and Householder.

Howard, Alan: *See*—
Morey, Arthur H., and Howard.

Howard, Arthur C., Upminster, England. Trench digging machine. 2,403,367; July 2.

Howard, Cecil D., Swarthmore, assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Welding apparatus. 2,403,221; July 2.

Howard, George G., assignor to Scovill Manufacturing Company, Waterbury, Conn. Hose coupling. 2,403,368; July 2.

Howells, John N. M., Kittery, Maine. Machine for driving curved self-retroverting nails. 2,403,222; July 2.

Hubbard, John R.: *See*—
Tutt, Richard, Jr., Hubbard, and McKee.

Huber, Joseph C., Jr., La Porte, Ind. Glass building construction. 2,403,369; July 2.

Huff, George K., assignee: *See*—
Fiddler, Albert A.

Hull, Carl M., and E. L., d'Ouville, assignors to Standard Oil Company, Chicago, Ill. Chlorination of hydrocarbon mixtures. 2,403,179; July 2.

Hull, Howard L., Anderson, Ind. Floating breaker switch for ignition systems. 2,403,283; July 2.

Hull, Philip C., assignor to The Parker Pen Company, Janesville, Wis. Desk set mounting. 2,403,083; July 2.

Hurd, Dallas T., Schenectady, N. Y., assignor to General Electric Company. Alkylation of halogenosilanes. 2,403,370; July 2.

Hurd, John C. H.: *See*—
Wildt, Edwin, Holmes, and Hurd.

Hyde, George J.: *See*—
Sampson, Frederick W., and Hyde.

Ifield, Richard J., Solihull, Birmingham, and W. E. W. Nicolls, Ealing, London, W. 5, assignors to Joseph Lucas Limited, Birmingham, England. Variable output pump. 2,403,371; July 2.

Independent Pneumatic Tool Company, assignee: *See*—
Mitchell, Walter G.

Infilco Incorporated, assignee: *See*—
Gustafson, Hilding B.
Gustafson, Hilding B., and Kominek.
Gustafson, Hilding B., and Paley.

International Business Machines Corporation, assignee: *See*—
Dickinson, Arthur H.
Lake, Clair D., and Hamilton.

International Harvester Company, assignee: *See*—
Acton, Russel D.
Baker, David B., and Bechman.
Graham, William S.
Hilblom, Samuel E.
Kakpke, Lee H., and Smith.
Raney, Russell R.
Rietz, Edward L.

Jackman, Peter J., New York, N. Y. Speed micrometer. 2,403,285; July 2.

Jackson, Frederick R., Jr., Pittsfield, Mass., assignor to General Electric Company. Thermal protection of electric apparatus. 2,403,372; July 2.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Valve for internal combustion engine. 2,403,001; July 2.

Jacobs, Joseph J., Brooklyn, N. Y., assignor to American Lecithin Company, Cleveland, Ohio. Phosphatidic lubricant and making. 2,403,284; July 2.

Jacobs Manufacturing Company, The, assignee: *See*—
Stoner, Arthur M.

James, Paul E., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Application of markings to surfaces. 2,403,084; July 2.

Jenkins, Vance N.: *See*—
Fischer, Paul W., and Jenkins.

Johansson, Ernest G.: *See*—
Sparkes, Harry P., and Johansson.

Johnson, Charles R., Glenn Mills, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonator loading machine. 2,403,286; July 2.

Johnson, Henry L., Denison, Tex. Apparatus for undisturbed overburden sampling. 2,403,002; July 2.

Johnson, Jay M., Detroit, Mich. Can opener. 2,403,373; July 2.

Jones, Harold T., Vallejo, Calif. Clamping implement. 2,403,180; July 2.

Jones, Jean P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of low-boiling saturated hydrocarbons. 2,403,181; July 2.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine and method. 2,403,003; July 2.

Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,403,085; July 2.

Juel, Leslie H.: *See*—
Franz, Arvel O., and Juel.

Kaesz, Stefan, Brooklyn, N. Y. Eyeshield for glasses. 2,403,223; July 2.

Kalart Company, Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Kalmar, Arthur F., and G. E. Stilwell, Riverside, assignors to Food Machinery Corporation, San Jose, Calif. Roll cleaner. 2,403,374; July 2.

Kassel, Louis S., assignor to Universal Oil Products Company, Chicago, Ill. Effecting catalyzed reactions. 2,403,375; July 2.

Kaupke, Lee H., La Grange, and L. E. Smith, Congress Park, Ill., assignor to International Harvester Company. Planter. 2,403,376; July 2.

Keesling, Thomas B.: *See*—
Hait, James M., and Keesling.

Keiser, Bernhard: *See*—
De Groote, Melvin, Keiser, and Wirtel.

Keith-Peabody, Inc., assignee: *See*—
Keith, William J.

Keith, William J., assignor to Keith-Peabody, Inc., Brookline, Mass. Closure. 2,403,287; July 2.

Keller, Wade T.: *See*—
Farrington, Thayer B., Keller, and Farrington.

Kelley, Daniel E., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Scoring roll. 2,403,377; July 2.

Kennedy, Charles A., assignee: *See*—
Breen, Thomas H.

Kenworthy, Max S., assignor to C. L. Harsh, Portland, Oreg. Electrode holder. 2,403,086; July 2.

Kenyon, William O., T. F. Murray, Jr., and L. M. Minsk, assignors to Eastman Kodak Company, Rochester, N. Y. Deesterification of copolymers of acrylic esters and vinyl esters. 2,403,004; July 2.

Kilpela, Ano E., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,403,378; July 2.

Kohler, Henry F., Baytown, Tex., assignor to Standard Oil Development Company. Hydrogenating olefins. 2,403,288; July 2.

Kominek, Edward, Jr.: *See*—
Gustafson, Hilding B., and Kominek.

Koppers Company, Inc., assignee: *See*—
Hill, William H.

Korman, Nathaniel I., Haddon Heights, N. J., assignor to Radio Corporation of America. Standing wave detector for centimeter waves. 2,403,289; July 2.

Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Ultra-high frequency ignition device. 2,403,290; July 2.

Kovalsky, Joseph F., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical apparatus. 2,403,087; July 2.

Krakauer, Abraham, Brooklyn, N. Y., assignor to No-Sag Spring Company, Detroit, Mich. Spring element and construction. 2,403,379; July 2.

Kremers, Roland E.: *See*—
Berry, Norton E., and Kremers.

Krischer, Irving M.: *See*—
Auslander, Henry, and Krischer.

Kurth, Franz J., assignor to Anemostat Corporation of America, New York, N. Y. Damper. 2,403,291; July 2.

Kuzdal, Anthony, Willimantic, Conn. Razor strop. 2,403,380; July 2.

Laing, Kenneth M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Treating oils. 2,403,088; July 2.

Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corp., New York, N. Y. Typewriting calculating machine. 2,403,005; July 2.

Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Recorder mechanism. 2,403,006; July 2.

Landis Machine Company, assignee: *See*—
Nell, Frederic.

Landweber, Louis: *See*—
Wilcoxon, Kenneth H., and Landweber.

Langan, Eugene E.: *See*—
Lemmon, Norman E., Bransky, and Langan.

Lars, Ernest, Melrose Park, Ill. Centrifugal separator. 2,403,089; July 2.

Larsen, Merwin J., Rochester, N. Y., assignor to Central Commercial Company, Chicago, Ill. Electronic organ. 2,403,090; July 2.

Latty, William J.: *See*—
Bolas, John T., Edwards, and Latty.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Electrode structure and manufacture. 2,403,224; July 2.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Manufacturing electrode foundation structures. 2,403,225; July 2.

Lawrence, Donald M., Newark, assignor to Bendix Aviation Corporation, Teterboro, N. J. Regulated system. 2,403,381; July 2.

Lear, Incorporated, assignee: *See*—
Geren, Philip.
Lear, William P.
Plotkin, Victor J.
Slavic, Fred M.

Lear, William P., Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Compass control system. 2,403,091; July 2.

Lear, William P., Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Linear actuator. 2,403,092; July 2.

Lear, William P., Piqua, Ohio, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Loop antenna construction. 2,403,093; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Torque preselecting mechanism. 2,403,094; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Traversing hoist. 2,403,095; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Synchronized direct current motor system. 2,403,097; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Automatic motor synchronization control. 2,403,098; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Cargo hoist. 2,403,099; July 2.

Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Power transmission control unit. 2,403,101; July 2.

Leary, James F., and C. W. Michatek, Rochester, N. Y. Adjustable strike plate for door locks. 2,403,182; July 2.

Lecher, Hans Z., Plainfield, and M. Scalera, Somerville, N. J., and C. T. Lester, Emory University, Ga., assignors to American Cyanamid Company, New York, N. Y. Manufacture of sulphuric ester-salts of leuco quinones. 2,403,226; July 2.

Leeds, Winthrop M., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,403,103; July 2.

Lefere, Alidor, assignor to Lefere Forge & Machine Company, Jackson, Mich. Drawing press. 2,403,183; July 2.

Lefere Forge & Machine Company, assignee: *See*—
Lefere, Alidor.

Lemmers, Eugene, Cleveland Heights, Ohio, assignor to General Electric Company. Electric discharge lamp. 2,403,184; July 2.

Lemmon, Norman E., Hammond, Ind., and D. W. Bransky and E. E. Langan, assignors to Standard Oil Company, Chicago, Ill. Preparation of sulphonic compounds. 2,403,185; July 2.

Lerner, Samuel, Pawtucket, R. I. Slide rule. 2,403,382; July 2.

Leslie, John H., II, Winnetka, assignor to Stewart-Warner Corporation, Chicago, Ill. Heating system. 2,403,186; July 2.

Lester, Charles T.: *See*—
Lecher, Hans Z., Scalera, and Lester.

Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Luminescent apparatus and developing luminescence. 2,403,227; July 2.

Levy, Harvey R., assignee: *See*—
Sauer, Urban.

Levy, René L., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Front strut for tricycle landing gears. 2,403,383; July 2.

Lien, Elvin B., Berkeley, assignor to Union Oil Company of California, Los Angeles, Calif. Lithium greases. 2,403,104; July 2.

Lincoln Engineering Company, assignee: *See*—
Reisert, August D., and Rotter.

Linde Air Products Company, The, assignee: *See*—
Busch, Charles J.

Linderoth, Erik T., Enkopin, Sweden. Brushing apparatus. 2,403,105; July 2.

Linzell, Harry K., Long Lake, Ill., assignor to United States Gypsum Company, Chicago, Ill. Producing variegated pressed fiberboard. 2,402,966; July 2.

Lipp, James C., assignee: *See*—
Hale, William J.

Littlefield, Arthur S.: *See*—
Williams, Russell J., and Littlefield.

Livermont, Frank W., assignor to Richmont, Inc., Los Angeles, Calif. Pipe wrench. 2,403,187; July 2.

Locke, John, assignor to The British Cotton Industry Research Association, Didsbury, Manchester, England. Carding engine. 2,403,384; July 2.

Lockheed Aircraft Corporation, assignee: *See*—
Sullivan, George C.

Loughlin, Bernard D., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Signal-translating system. 2,403,385; July 2.

Lowe, William B.: *See*—
Stanley, Richard W., and Lowe.

Lowell & Grayson, assignee: *See*—
Grayson, John H.

Lubelsky, Benjamin L., Wynnewood, and W. R. Walburn, assignors to Heitzman Safety Blasting Plug Corp., Shamokin, Pa. Blasting plug. 2,403,386; July 2.

Lubenow, Lewis W., Orange, N. J. Removing flash from soft molded articles. 2,402,967; July 2.

Lucas, Joseph, Limited, assignee: *See*—
Ifield, Richard J., and Nicolls.

Ludeman, Oscar H., New York, N. Y., assignor to Skinner Engine Company, Erie, Pa. Valve mechanism. 2,403,427; July 2.

Machado, Anthony B.: *See*—
Friden, Carl M., and Machado.

MacMillan, Douglas M., and J. Vinton, Berkeley, Calif. Colored gas signal. 2,402,968; July 2.

Magnetic Analysis Corporation, assignee: *See*—
Zuschlag, Theodore.

Mallory, Marion, Detroit, Mich. Two-cycle internal-combustion engine. 2,403,106; July 2.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Beck, Rudolf.

Maris, Harry B., Riverdale, Md. Recoil brake. 2,403,007; July 2.

Martin, Glenn L., Company, The, assignee: *See*—
Adreon, Carroll E.

Martin, Louis D., assignor to Eastman Kodak Company, Rochester, N. Y. Gear testing work holder. 2,403,008; July 2.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAllister, Sumner H., Lafayette, and J. Anderson and W. E. Ross, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic processes. 2,403,107; July 2.

McCann, Thomas A., Arlington, Va., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse generating system and its use in signal transmission systems. 2,403,009; July 2.

McClain, Edward F., Jr., Washington, D. C. Automatic frequency control circuit. 2,403,011; July 2.

McCleary, Rush F., Beacon, assignor to The Texas Company, New York, N. Y. Lubricating composition. 2,402,969; July 2.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Heater. 2,402,970; July 2.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Burner. 2,402,971; July 2.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Heating apparatus. 2,403,188; July 2.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Heater. 2,403,189; July 2.

McCollum, Thelma, executrix: *See*—
McCollum, Henry J. De N.

McCord, Andrew T., and H. F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Magnesium-titanium-oxygen compounds and methods of preparing the same. 2,403,228; July 2.

McCoy, George E.: *See*—
Battley, Edwin R., and McCoy.

McGraw Electric Company, assignee: *See*—
Olving, Bror G.
Osterheld, Clark M.

McHan, Brack B., Quincy, assignor to Calcium Carbonate Company, Chicago, Ill. Stabilized composition and method. 2,403,010; July 2.

McKee, Charles R.: *See*—
Tutt, Richard, Jr., Hubbard, and McKee.

McLennan, Miles A., Detroit, Mich. Radiant energy responsive directional control. 2,403,387; July 2.

McNabney, Ralph: *See*—
Wegst, Walter F., Bacon, and McNabney.

McPheters, Leonard L., Springfield, Mass., assignor to the Government of the United States of America, as represented by The Secretary of War. Magazine loader. 2,403,012; July 2.

Meadow, Jacob R., Memphis, Tenn., assignor to Socony-Vacuum Company, Incorporated. Alkylation. 2,403,013; July 2.

Merry Hull & Company, assignee: *See*—
Geissmann, Gladys W.

Messinger, William, Philadelphia, Pa. Hydraulic pump. 2,403,292; July 2.

Meyerhofer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Lamp. 2,403,108; July 2.

Michatek, Chester W.: *See*—
Leary, James F.

Mikos, John J.: *See*—
Rawlins, Herbert L., and Mikos.

Miller, Mike A., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Brazing. 2,403,109; July 2.

Miller, Mike A., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Joining aluminum. 2,403,110; July 2.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minsk, Louis M.: *See*—
Kenyon, William O., Murray, and Minsk.

Miskel, John J., Brooklyn, N. Y., assignor to National Oil Products Company, Harrison, N. J. Anticorrosion composition. 2,403,293; July 2.

Missien, Edward J.: *See*—
Weyandt, Carl S., and Missien.

Mitchell, Walter G., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Centrifugal governor for tools. 2,402,972; July 2.

Monsanto Chemical Company, assignee: *See*—
Aelony, David.
Rosenquist, Edward N., and Sudhoff.

Moody, John L.: *See*—
Friden, Carl M., and Moody.

Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,403,111; July 2.

Moore, David W., Jr., New York, N. Y., assignor to Fairchild Camera and Instrument Corporation. Transmitter for telemetering system. 2,402,973; July 2.

Morey, Arthur H., and A. Howard, Schenectady, N. Y., assignors to General Electric Company. Gas turbine power plant. 2,403,388; July 2.

Morey, Robert L., Swampscott, Mass., assignor to General Electric Company. Flexible gear coupling arrangement. 2,403,389; July 2.

Morrell, Glenn A., Seattle, Wash. Fruit picker. 2,403,294; July 2.

Morse, William A., Santa Monica, Calif. Swivelled and shock absorbing seat construction for vehicles. 2,402,974; July 2.

Moseley, James T. W., Clayton, H. A. Carlson, University City, and A. N. Szwargulski, assignors to Carter Carburetor Corporation, St. Louis, Mo. Charge forming device. 2,403,390; July 2.

Moses, Louis: *See*—
Wertheim, Oscar, and Moses.

Mueller, Fritz W. H., and J. E. Bates, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y. Intensification of the latent image. 2,403,428; July 2.

Mueller, Otto: *See*—
Widman, Charles H., and Mueller.

Muir, William P., Hampstead, Quebec, Canada, assignor to Dominion Engineering Works, Limited, Lachine, Quebec, Canada. Hydraulic press. 2,403,391; July 2.

Murray Manufacturing Corporation, assignee: *See*—
Murray, Thomas E., Phelps, and Frischmann.

Murray, Thomas E., Southampton, G. H. Phelps, Floral Park, and G. Frischmann, Queens Village, N. Y.; said Murray assignor to Yarrum, Incorporated, and said Phelps and Frischmann assignors to Murray Manufacturing Corporation, Brooklyn, N. Y. Electric resistance welding. 2,403,229; July 2.

Murray, Thomas F., Jr.: *See*—
Kenyon, William O., Murray, and Minsk.

Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Preparing molded compositions from unsaturated esters. 2,403,112; July 2.

Muskat, Irving E., Akron, and F. Strain, Norton Center, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Unsaturated carbonate ester and polymer thereof. 2,403,113; July 2.

Nagel, Theodore, Brooklyn, and H. D. Bliss, South Salem, N. Y.; said Bliss assignor to said Nagel. Oil burning equipment and controlling mechanism therefor. 2,403,230; July 2.

Nagy, Alexander, Lindenhurst, N. Y. Clothesline supporting device. 2,403,295; July 2.

Nampa, Sulo M., Detroit, Mich., assignor to Grade Crossing Guard Corporation, Memphis, Tenn. Air operated auto stop. 2,403,014; July 2.

National Acme Company, The, assignee: *See*—
Drissner, Alfred E.

National Oil Products Company, assignee: *See*—
Miskel, John J.
Robinson, Edwin A., and De Castro.
Rossiter, Laurence E., and Beach.

National Plastics, Inc., assignee: *See*—
Van Deventer, Christopher.

National Supply Company, The, assignee: *See*—
Hanners, Harvey W.

Needham, Donald P., and J. Stussi, assignors to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,403,296; July 2.

Nell, Frederic, assignor to Landis Machine Company, Waynesboro, Pa. Thread cutting mechanism. 2,403,015; July 2.

Newbery, Stanley, London, England. Electric master switches or electrical timing devices for controlling the operations of laundry or other plants or apparatus. 2,403,392; July 2.

Nichols, Charles R., Jr., Jersey City, N. J., and R. H. Simpson, Staten Island, N. Y., assignors to Joseph Dixon Crucible Company, Jersey City, N. J. Machine for making hollow rivets. 2,403,297; July 2.

Nicolls, Wilfrid E. W.: *See*—
Ifield, Richard J., and Nicolls.

Noble, Robert H., Wharton, N. J. Applicator. 2,403,016; July 2.

Nordlund, Karl F., Ostertalje, Sweden. Steam generator. 2,403,017; July 2.

North American Aviation, Inc., assignee: *See*—
Chapman, James E., and Bussiere.

Norton Company, assignee: *See*—
Carlson, Carl A.

No-Sag Spring Company, assignee: *See*—
Krakauer, Abraham.

Nugent, Frederick V., Abington, assignor to B. B. Chemical Co., Boston, Mass. Activating compositions. 2,402,975; July 2.

Oday, Arthur B., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp base and socket. 2,403,114; July 2.

Oglesby, Nicholas E., assignor to Behr-Manning Corporation, Troy, N. Y. Manufacture of abrasives. 2,403,018; July 2.

Olin Industries, Inc., assignee: *See*—
Franz, Arvel O., and Juel.

Olpin, Henry C., and S. A. Gibson, Spondon, near Derby, assignors to British Celanese Limited, London, England. Inhibition of acid fading on cellulose acetate with melamine resin. 2,403,019; July 2.

Olson, Victor J., Spokane, Wash. Scraper. 2,402,976; July 2.

Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Electric sadiron. 2,403,115; July 2.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Water heater control system. 2,403,116; July 2.

Oxford, Alan J. H.: *See*—
Butement, William A. S., and Oxford.

Pacific Acetate and Chemical Company, assignee: *See*—
Thomsen, Alfred M.

Paley, Lewis A.: *See*—
Gustafson, Hilding B., and Paley.

Parisier, Maurice, New York, N. Y. Reverberations modulator. 2,403,231; July 2.

Parisier, Maurice, New York, N. Y. Reverberation modulator for echo effect. 2,403,232; July 2.

Parker Pen Company, The, assignee: *See*—
Baker, Marlin S.
Hull, Philip C.

Parraga, Alfredo J., Vibora, Cuba. Cake cutter. 2,403,190; July 2.

Parsons, John B., Toledo, Ohio. Cylinder assembly. 2,403,020; July 2.

Patch, Allen J., Ripon, Wis. Washing machine. 2,403,233; July 2.

Patrick, Joseph C., Morrisville, Pa., and H. R. Ferguson, assignors to Thiokol Corporation, Trenton, N. J. Reactive sulphide polymer and process of making it. 2,402,977; July 2.

Patterson, John A., Beacon, assignor to The Texas Company, New York, N. Y. Lubricant. 2,403,234; July 2.

Patterson, Ward S.: *See*—
Powell, E. M., and Patterson.

Payne, Frank E., assignor to Crane Packing Company, Chicago, Ill. Seal. 2,403,298; July 2.

Peters, John F., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gunfire control system. 2,403,117; July 2.

Peterson, Clarence J.: *See*—
Peterson, Clarence L. and C. J.

Peterson, Clarence L. and C. J., Salt Lake City, Utah. Method and apparatus for filtration. 2,403,021; July 2.

Peterson, Frank C., Randolph, Mass. Adjustable eraser. 2,403,235; July 2.

Peterson, Justin, Swampscott, Mass., assignor to General Electric Company. Regulator. 2,403,393; July 2.

Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin.
De Groote, Melvin, Keiser, and Wirtel.

Phelps, George H.: *See*—
Murray, Thomas E., Phelps, and Frischmann.

Phelps, William H., Ralston, Nebr. Lawn mower blade. 2,403,236; July 2.

Philco Radio and Television Corporation, assignee: *See*—
Dolberg, Charles E.

Phillips, Alvin W., Mackinaw, Ill. Cooking utensil. 2,403,191; July 2.

Phillips Petroleum Company, assignee: *See*—
Jones, Jean P.

Pickin, Rowland O., Los Angeles, Calif. Container. 2,403,299; July 2.

Pieper, Chester R., Warrenton, Mo. Expansion earth anchor. 2,403,150; July 2.

Pittsburgh Plate Glass Company, assignee: *See*—
Downes, Daniel T.
Muskat, Irving E.
Muskat, Irving E., and Strain.

Plotkin, Victor J., Los Angeles, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Multiple accessory operating mechanism. 2,403,102; July 2.

Pollard, Ernest I., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Armature winding. 2,403,118; July 2.

Polston, John R.: *See*—
Cook, Fay V., and Polston.

Porter, H. K., Company, Inc., assignee: *See*—
Garraway, George H.

Powell, Elno M., and W. S. Patterson, Chappaqua, assignor to Combustion Engineering Company, Inc., New York, N. Y. Superheater baffling. 2,403,237; July 2.

Powell, Paul R., Baltimore, Md. Machine tool. 2,403,119; July 2.

Press Wireless, Inc., assignee: *See*—
Gerhard, Anthony E., and Fraim.

Preston, John E., Northport, N. Y., assignor to The American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Combined folding and stacking machine. 2,403,394; July 2.

Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,403,120; July 2.

Prieto, Fernando G., Los Angeles, Calif. Combustion engine. 2,403,395; July 2.

Pro-phy-lac-tic Brush Company, assignee: *See*—
D'Alelio, Gaetano F.

Punte, William F., Baltimore, Md., assignor to Continental Can Company, New York, N. Y. Collar can collar and mounting therefor. 2,403,192; July 2.

Radio Corporation of America, assignee: *See*—
Carlson, Wendell L.
Conklin, James W.
Evans, John.
Hershberger, William D.
Korman, Nathaniel I.
Law, Harold B.
Leverenz, Humboldt W.
Richmond, Martin R.
Roberts, Walter van B.
Rose, Albert.

Raney, Russell R., La Grange, Ill., assignor to International Harvester Company. Tying mechanism. 2,403,396; July 2.

Rankin, Dan R., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Lubrication system. 2,403,397; July 2.

Rawlins, Herbert L., Pittsburgh, and J. J. Mikos, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,403,121; July 2.

Rawson, Maxwell C., Des Plaines, Ill. Disintegrating head. 2,403,193; July 2.

Raytheon Manufacturing Company, assignee: *See*—
Brown, William C.
Stutsman, Paul W.

Refining Unincorporated: *See*—
Thurman, Benjamin H.

Reggio, Ferdinando C., Norwalk, Conn. Engine regulating means. 2,403,398; July 2.

Reggio, Ferdinando C., Detroit, Mich. Powerplant. 2,403,399; July 2.

Reichel & Drews, Inc., assignee: *See*—
Westergaard, Carl C.

Reid Brothers Company, Inc., assignee: *See*—
Woodbury, Stephen E.

Reimers, Alfred E., Harrington Park, N. J. Electrically-heated device and resistance element therefor. 2,403,022; July 2.

Reisert, August D., St. Louis, and L. C. Rotter, Maplewood, assignors to Lincoln Engineering Company, St. Louis, Mo. Pump. 2,403,122; July 2.

Revere Copper and Brass Incorporated, assignee: *See*—
Bunn, Edward S.
Wilkins, Richard A., and Bunn.

Reyniers, James A., Niles, Mich. Surgical operating device. 2,403,400; July 2.

Reynolds, Frederick W., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Television follower apparatus. 2,403,023; July 2.

Reynolds Metals Company, assignee: *See*—
Zeigler, Paul G., and Householder.

Rheineck, Alfred E., and S. B. Crecelius, Louisville, Ky., assignors to Devoe & Raynolds Company, Inc. Preparation of varnish compositions. 2,403,300; July 2.

Richmond, Martin R., Brooklyn, N. Y., assignor to Radio Corporation of America. Ultra-high frequency apparatus. 2,403,302; July 2.

Richmond, Martin R., Washington, D. C., assignor to Radio Corporation of America. Ultra-high frequency apparatus. 2,403,303; July 2.

Richmont, Inc., assignee: *See*—
Livermont, Frank W.

Richon, André, Sous-Geronde, Chippis, Valais, Switzerland. Making artificial carbon pieces. 2,403,301; July 2.

Rietz, Edward L., Riverside, Ill. assignor to International Harvester Company. Side delivery rake. 2,403,401; July 2.

Rimer, Ralph R.: *See*—
Elmer, William B., and Rimer.

Ritter Company, Inc., assignee: *See*—
Ziegler, Eugene R.
Rixon, John F., Hudson, N. Y. Flight conveyer. 2,403,024; July 2.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Tuned circuit and system therefor. 2,403,151; July 2.
Roberts, William H., assignor to Rotol Limited, Gloucester, England. Apparatus for measuring tensile or compression loads. 2,403,194; July 2.
Robertshaw Thermostat Company, assignee: *See*—
Strobel, Charles K.
Strobel, Charles K., and Eskin.
Robinson Clay Product Company, The, assignee: *See*—
Hertzell, Emanuel A., and Anderson.
Robinson, Edwin A., Chatham, and A. De Castro, Newark, assignors to National Oil Products Company, Harrison, N. J. High-twist artificial yarn production. 2,403,304; July 2.
Rolls-Royce Limited, assignee: *See*—
Griffith, Alan A.
Romig, Gerald C.: *See*—
Douty, Alfred, and Romig.
Roper, Val J., South Euclid, Ohio, assignor to General Electric Company. Headlight indicator. 2,403,123; July 2.
Rose, Albert, East Orange, N. J., assignor to Radio Corporation of America. Target electrode for electron discharge tubes. 2,403,239; July 2.
Rosenquist, Edward N., Oakwood, and R. W. Sudhoff, Van Buren Township, Montgomery County, Ohio, assignors to Monsanto Chemical Company. Alkylation of benzene. 2,403,124; July 2.
Rosenstiehl, Fred E., Westfield, N. J., assignor to The Texas Company, New York, N. Y. Lubrication as applied to the processing of aluminum and aluminum alloys. 2,403,238; July 2.
Ross, De Witt T., Jr., North Hollywood, Calif. Cockpit shield. 2,403,195; July 2.
Ross, William E.: *See*—
McAllister, Sumner H., Anderson, and Ross.
Rossi, Peter, Brooklyn, assignor to Joseph W. Yellen, New York, N. Y. Turnbuckle. 2,403,402; July 2.
Rossiter, Laurence E., Kearny, and R. M. Beach, Florham Park, assignors to National Oil Products Company, Harrison, N. J. Production of high twist artificial yarns. 2,403,305; July 2.
Roters, Herbert C., Roslyn, N. Y., assignor to Fairchild Camera and Instrument Corporation. Electrical position indicating system. 2,403,152; July 2.
Rotol Limited, assignee: *See*—
Roberts, William H.
Rotter, Lutwin C.: *See*—
Reisert, August D., and Rotter.
Rouse, Anita A. C., Florham Park, N. J. Piano action protector. 2,403,196; July 2.
Sampson, Frederick W., Dayton, Ohio, and G. J. Hyde, Brooklyn, N. Y., assignors to General Motors Corporation. Firearm construction. 2,403,206; July 2.
Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron beam device. 2,403,025; July 2.
Sankey, Joseph, & Sons Limited, assignee: *See*—
Butler, Harold G.
Sanozone Corporation, assignee: *See*—
Schaefer, Richard J.
Santini, Danilo, Tenafly, and E. H. Heath, Jersey City, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,403,125; July 2.
Saslaw, Otto, Kearny, N. J., assignor to Federal Telephone & Radio Corporation. Selenium tablet and making and applying it. 2,403,026; July 2.
Sauer, Urban, Pittsburgh, assignor of two-fifths to H. R. Levy, McKeesport, Pa. Muffler. 2,403,403; July 2.
Saukaitis, Albert J., Wayne, assignor to American Chemical Paint Company, Ambler, Pa. Pickling inhibitor. 2,403,153; July 2.
Saunders, Harold F.: *See*—
McCord, Andrew F., and Saunders.
Sawin, Kenneth A., Auburndale, assignor to Wheeler Reflector Company, Boston, Mass. Retaining guard for fluorescent lamps. 2,403,240; July 2.
Scalera, Mario: *See*—
Lecher, Hans Z., Scalera, and Lester.
Schaefer, Langdon C.: *See*—
Spear, Wendell C., and Schaefer.
Schaefer, Richard J., assignor to Sanozone Corporation, Detroit, Mich. Ozone generating cell. 2,403,241; July 2.
Schaller, Eugene, Yorktown, Tex. Writing pad. 2,403,197; July 2.
Schellenberg, Albert, Joliet, Ill. Rinse wringer. 2,403,126; July 2.
Schuler, Reginald G., Highland Park, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,403,307; July 2.
Schulze, John E., Chicago, Ill. Manufacture of polynuclear aromatic hydrocarbons. 2,403,127; July 2.
Schwartz, Morris, and W. Castedello, Stamford, Conn., assignors to The Kalart Company, Inc., New York County, N. Y. Photograph camera construction. 2,403,308; July 2.
Schweppe, Everett C., Topeka, Kans. Auxiliary reservoir for ink bottles. 2,403,242; July 2.
Scott, Frank E., Wallace, Idaho. Vacuum siphon percolator. 2,403,404; July 2.
Scott, Howard, and R. B. Gordon, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat resistant alloys. 2,403,128; July 2.
Scovill Manufacturing Company, assignee: *See*—
Howard, George G.
Sealy, Incorporated, assignee: *See*—
Bowersox, Joseph W.
Seeger Refrigerator Company, assignee: *See*—
Ahrens, Robert S., and Ellsworth.
Seng Company, The, assignee: *See*—
Bolens, Harry W.
Seppeler, Eduard, Berlin-Neukolln, Germany; vested in The Alien Property Custodian. Synchronizing propeller. 2,403,243; July 2.
Shaeffer, Harvey E., assignor to Arvey Corporation, Chicago, Ill. Landing gear for toy airplanes. 2,403,129; July 2.
Sheldrick, Henry W., and W. P. Hoglund, assignors to Collier-Keyworth Company, Gardner, Mass. Chair iron. 2,403,198; July 2.
Shell Development Company, assignee: *See*—
Cole, Robert M., and Shultz.
McAllister, Sumner H., Anderson, and Ross.
Weiss, Frederick T., and Sullivan.
Sherwin-Williams Company, The, assignee: *See*—
McCord, Andrew T., and Saunders.
Todd, Seldon P., and Verduin.
Shoultz, Earl K., Los Angeles, Calif. Combination saw. 2,403,027; July 2.
Shultz, Irving I.: *See*—
Cole, Robert M., and Shultz.
Simmons, R. A., Vernonia, Oreg. Dry kiln. 2,403,154; July 2.
Simons, Joseph M., St. Louis Park, Minn. Cold wave hair curler. 2,403,244; July 2.
Simpson, Roswell H.: *See*—
Nichols, Charles R., Jr., and Simpson.
Sirola, Frank, New York, N. Y. Turret head for lathes. 2,403,405; July 2.
Skinner Engine Company, assignee: *See*—
Ludeman, Oscar H.
Slavic, Fred M., Los Angeles, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Antifriction drive. 2,403,096; July 2.
Slaymaker, Frank H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Modulation system. 2,403,245; July 2.
Smith, A. O., Corporation, assignee: *See*—
Carstens, Fritz A.
Heath, William C.
Higgins, Waldo W.
Thiele, Theodore H.
Smith, Arthur D., assignor to Barium Steel Corporation, Canton, Ohio. Ice cube manufacturing apparatus. 2,403,406; July 2.
Smith, L. C., & Corona Typewriters, Inc., assignee: *See*—
Bradt, Charles H.
Smith, Lewis E.: *See*—
Kaupke, Lee H., and Smith.
Smith, Roy M., Bethlehem, Pa., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric discharge apparatus. 2,403,130; July 2.
Smith, Russell J., Richmond Heights, Mo. Tire for airplane wheels. 2,403,309; July 2.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Valve seat seal for faucets. 2,403,028; July 2.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. High-pressure valve constructoin. 2,403,029; July 2.
Smith, William A., Bronxville, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Laminated container closure. 2,403,131; July 2.
Societe d'Inventions Aeronautiques et Mecaniques, S. I. A. M., assignee: *See*—
Levy, René L.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Francis, Alfred W.
Meadow, Jacob R.
Solinsky, Robert S., Chicago, Ill. Can. 2,403,030; July 2.
Sonne, John, Cleveland, Ohio. Mechanical razor. 2,403,407; July 2.
Southern Wood Preserving Company, assignee: *See*—
Deiters, August M.
Spackman, Thomas F., assignor to Stewart-Warner Corporation, Chicago, Ill. Portable heater. 2,403,155; July 2.
Sparkes, Harry P., West Orange, N. J., and E. G. Johanson, Watertown, Mass., assignors of one-half to Westinghouse Electric Corporation, East Pittsburgh, Pa., and one-half to Anchor Manufacturing Company, Boston, Mass. Meter mounting. 2,403,132; July 2.

Spear, Wendell C., Wapakoneta, Ohio, and L. C. Schaefer, Honolulu, Hawaii, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric motor control. 2,403,156; July 2.
Spencer, Arthur: *See*—
Abbink-Spaink, Johann H., and Spencer.
Sperling, Joseph, New York, N. Y. Window construction. 2,403,246; July 2.
Sperry Gyroscope Company, Inc., assignee: *See*—
Depp, Marlin C., and Fragola.
Hight, William R., and Wittkuhns.
Stalker, Edward A., Bay City, Mich. Aircraft. 2,403,133; July 2.
Stamberger, Paul, Dover, Del. Production of thickened products from fatty acid esters. 2,403,408; July 2.
Standard Oil Company, assignee: *See*—
Hull, Carl M., and d'Ouville.
Lemmon, Norman E., Bransky and Langan.
Standard Oil Company, The, assignee: *See*—
Burk, Robert E.
Standard Oil Development Company, assignee: *See*—
Davis, Garland H. B.
Davis, Garland H. B., Sweeney, and Herbst.
Green, Arthur D.
Hewlett, Amiot P.
Hill, Ralph M., and Codet.
Kohler, Henry F.
Tongberg, Carl O.
Williams, Milton.
Stanley, Richard W., Drexel Hill, and W. B. Lowe, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del. Thread advancing reel. 2,403,031; July 2.
Stanolind Pipe Line Company, assignee: *See*—
Cook, Fay V., and Polston.
Staub, Herman, Wyomissing, Pa., assignor to Textile Machine Works. Yarn carrier with replaceable yarn guide eyelet. 2,403,310; July 2.
Steele, Sydney, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile rope-stacking apparatus. 2,403,311; July 2.
Steenbergen, Charles, Point Pleasant, W. Va., assignor to Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Bandage package. 2,402,982; July 2.
Stephenson, William B., Fond du Lac, Wis. Charcoal burner. 2,403,134; July 2.
Stevens, William G., Jr., Sykesville, Md. Method and apparatus for sizing and lubricating bullets. 2,403,032; July 2.
Stever, William: *See*—
Diamond, Arthur R., and Stever.
Stewart, Ward W., Girard, Ohio. Slack controller. 2,403,135; July 2.
Stewart-Warner Corporation, assignee: *See*—
Leslie, John H., II.
Spackman, Thomas F.
Stilwell, Glenn E.: *See*—
Kalmar, Arthur F., and Stilwell.
Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Collet. 2,403,136; July 2.
Strahm, Gaylord E., Los Angeles, Calif. Honing tool. 2,403,409; July 2.
Strain, Franklin: *See*—
Muskat, Irving E., and Strain.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Hitch device. 2,403,410; July 2.
Strickland, Royal F., Cleveland Heights, Ohio, assignor to General Electric Company. Basing for electric lamps and the like. 2,403,137; July 2.
Strobel, Charles K., Pittsburgh, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Control system for fuel burners. 2,403,411; July 2.
Strobel, Charles K., Pittsburgh, Pa., and S. G. Eskin, Los Angeles, Calif., assignors to Robertshaw Thermostat Company, Youngwood, Pa. Ignition and safety control system for fuel burners. 2,403,412; July 2.
Stromberg-Carlson Telephone Manufacturing Company, The, assignee: *See*—
Slaymaker, Frank H.
Stussi, Jackues: *See*—
Needham, Donald P., and Stussi.
Stutsman, Paul W., Waltham, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Gaseous electrical space discharge rectifying device. 2,403,033; July 2.
Sudhoff, Roy W.: *See*—
Rosenquist, Edward N., and Sudhoff.
Sullivan, George C., Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Fastening device. 2,403,247; July 2.
Sullivan, John J., Arlington, Mass., assignor of one-half to L. L. Witter, Boston, Mass. Pouring carton and blank. 2,403,138; July 2.
Sullivan, William A.: *See*—
Weiss, Frederick T., and Sullivan.
Sun Shipbuilding & Dry Dock Company, assignee: *See*—
Howard, Cecil D.
Super Tool Company, assignee: *See*—
Brocker, Emil.
Sutherland Paper Company, assignee: *See*—
Buttery, Kenneth T.
Swartzel, Karl D.: *See*—
Caughey, William K., and Swartzel.
Sweeney, James, Detroit, Mich. Nonskid chain. 2,403,312; July 2.
Sweeney, William J.: *See*—
Davis, Garland H. B., Sweeney, and Herbst.
Swope, Joe E., Jr., Rochester, A. F. Turner, Brighton, and O. A. Ulrich, Jr., assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for forming evaporated films. 2,403,199; July 2.
Syntron Company, assignee: *See*—
Weyandt, Carl S., and Missien.
Szwargulski, Alex N.: *See*—
Moseley, James T. W., Carlson, and Szwargulski.
Tanglefoot Company, The, assignee: *See*—
Clark, Llewellynn J.
Taylor, Halsey W. Company, The, assignee: *See*—
Freer, Clyde P.
Taylor, Thomas T., assignor to Compo Shoe Machinery Corporation, Boston, Mass. Manufacture of footwear. 2,403,313; July 2.
Teleregister Corporation, The, assignee: *See*—
Hicks, Raymond M.
Teletype Corporation, assignee: *See*—
Eddy, William H.
Needham, Donald P., and Stussi.
Schuler, Reginald G.
Zenner, Walter J.
Texas Company, The, assignee: *See*—
McCleary, Rush F.
Patterson, John A.
Rosenstiehl, Fred E.
Textile Machine Works, assignee: *See*—
Staub, Herman.
Thiele, Theodore H., assignor to A. O. Smith Corporation, Milwaukee, Wis. Gas burner. 2,403,139; July 2.
Thiokol Corporation, assignee: *See*—
Patrick, Joseph C., and Ferguson.
Thompson Electric Company, The, assignee: *See*—
Farrington, Thayer B., Keller, and Farrington.
Thomsen, Alfred M., San Francisco, Calif., assignor to Pacific Acetate and Chemical Company. Making of activated carbon. 2,403,140; July 2.
Thurman, Benjamin H., Charlotte, N. C., assignor, by mesne assignments, to Benjamin Clayton, Houston, Tex., doing business as Refining Unincorporated. Making soap. 2,403,413; July 2.
Times Telephoto Equipment Inc., assignee: *See*—
Dillenback, Garett V., and Cooley.
Timken Roller Bearing Company, The, assignee: *See*—
Buckwalter, Tracy V.
Todd, Seldon P., Gloucester City, and F. C. Verduin, Auburn, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Iron hydrate and the manufacture and use of the same. 2,403,248; July 2.
Tongberg, Carl O., Westfield, N. J., assignor to Standard Oil Development Company. Hydrocarbon isomerization process. 2,403,314; July 2.
Touceda, Enrique G., Loudonville, and R. P. De Vries, Menands, N. Y., assignors to Allegheny Ludlum Steel Corporation. Chrome beryllium alloy steel and articles of manufacture produced therefrom. 2,403,141; July 2.
Traver, Oliver C., Drexel Hill, Pa., assignor to General Electric Company. Protective system. 2,403,414; July 2.
Trevaskis, Henry W., Solihull, Birmingham, assignor to Dunlop Rubber Company, Limited, London County, England. Solenoid. 2,403,315; July 2.
Tunley, Allan A., assignor to Baker Perkins, Limited, Peterborough, England. Conveyer mechanism. 2,403,249; July 2.
Turner, Arthur F.: *See*—
Swope, Joe E., Jr., Turner, and Ulrich.
Turner, George F., Chicago, Ill., assignor of one-fourth to P. S. Harper, one-fourth to C. L. Harper, Chicago, Ill., one-fourth to Harris Trust and Savings Bank, Chicago, Ill., as trustee for a trust known as "The Philip S. Harper Trust," and one-fourth to Harris Trust and Savings Bank, Chicago, Ill., as trustee for a trust known as "The Carolyn L. Harper Trust." Burner construction. 2,403,142; July 2.
Tutt, Richard, Jr., J. R. Hubbard, and C. R. McKee, assignors to Peter Cooper Corporations, Gowanda, N. Y. Composition for effecting agglomeration of solids in aqueous suspensions. 2,403,143; July 2.
Tutt, Richard, Jr., J. R. Hubbard, and C. R. McKee, assignors to Peter Cooper Corporations, Gowanda, N. Y. Composition for effecting agglomeration of solids in aqueous suspensions. 2,403,144; July 2.
Ulrich, Osmar A., Jr.: *See*—
Swope, Joe E., Jr., Turner, and Ulrich.
Ulrich, Theodore, Milwaukee, Wis., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Wheel and motor suspension, especially for automobiles. 2,403,145; July 2.
Union Oil Company of California, assignee: *See*—
Fischer, Paul W., and Jenkins.
Lien, Elvin B.
United Brick & Tile Company, assignee et al.: *See*—
Francis, Wilbur C.
United Shoe Machinery Corporation, assignee: *See*—
Jorgensen, Bernhardt.

United States Gypsum Company, assignee: *See*—
Linzell, Harry K.
United States Radium Corporation, assignee: *See*—
Wallhausen, Clarence W.
Universal Oil Products Company, assignee: *See*—
Day, Roland B.
Kassel, Louis S.
Van Daam, Gerrit, Buffalo, N. Y. Heating guns. 2,403,415; July 2.
Vandegriff, Ragan M., Atlanta, Ga. Lint trap. 2,403,416; July 2.
Van Deventer, Christopher, assignor to National Plastics, Inc., Knoxville, Tenn. Bobbin for use in spinning or weaving. 2,403,417; July 2.
Verduin, Fredric C.: *See*—
Todd, Seldon P., and Verduin.
Verhagen, Christian M., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Jettisoning the sliding canopies of airplane cockpits. 2,403,250; July 2.
Vickers-Armstrongs Limited, assignee: *See*—
Abbink-Spaink, Johan H., and Spencer.
Vinton, John: *See*—
MacMillan, Douglas M., and Vinton.
Volkmann, John, Cambridge, Mass., assignor to the Government of the United States, as represented by the Secretary of War. Earphone socket. 2,403,418; July 2.
Voorhees, Daniel W., Quincy, Ill. Wheel. 2,403,146; July 2.
Walburn, Walter R.: *See*—
Lubelsky, Benjamin L., and Walburn.
Wallhausen, Clarence W., Morristown, N. J., assignor to United States Radium Corporation, New York, N. Y. Radioactive apparatus. 2,403,316; July 2.
War, United States of America, as represented by the Secretary of: *See*—
McPheters, Leonard L.
Volkmann, John.
Warren, Marie E., assignee, by decree of court: *See*—
Benton, Dudley C.
Warren, Richard F., Jr., Stratford, Conn. Rope. 2,403,317; July 2.
Watson, Frederick K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of fibers from proteins. 2,403,251; July 2.
Wegst, Walter F., L. R. Bacon, and R. McNabney, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Manufacture of zincated alkalies. 2,403,157; July 2.
Weiss, Frederick T., Normandy, Mo., and W. A. Sullivan, Edwardsville, Ill., assignors to Shell Development Company, San Francisco, Calif. Aircraft fuel tank lining. 2,403,200; July 2.
Wertheim, Oscar, and L. Moses, Brooklyn, N. Y. Electric soldering iron. 2,403,158; July 2.
Weseman, Chester A., Austin, Minn. Building siding. 2,403,318; July 2.
Westergaard, Carl C., assignor to Reichel & Drews, Inc., Chicago, Ill. Automatic winding machine. 2,403,147; July 2.
Westinghouse Electric Corporation, assignee: *See*—
Cunningham, Richard C.
Daly, Thomas A.
Elmer, William B.
Elmer, William B., and Rimer.
Gates, Henry S.
Hill, Allan W., and Cumming.
James, Paul E.
Kovalsky, Joseph F.
Leeds, Winthrop M.
Peters, John F.
Pollard, Ernest I.
Rawlins, Herbert L., and Mikos.
Santini, Danilo, and Heath.
Scott, Howard, and Gordon.
Sparkes, Harry P., and Johansson.
Spear, Wendell C., and Schaefer.
Weyandt, Carl S., Homer City, and E. J. Missien, Indiana, assignors to Syntron Company, Homer City, Pa. Intermittent current operated motor. 2,403,034; July 2.
Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. High-frequency impedance-matching device. 2,403,252; July 2.
Wheeler Reflector Company, assignee: *See*—
Sawin, Kenneth A.
White, Julius, Jamaica, N. Y. Processes of making shoes. 2,403,253; July 2.
White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Crowell, Walter S., and Birch.
White, Wayne E., Plum Township, Allegheny County, assignor to Aluminum Company of America, Pittsburgh, Pa. Making fluoboric acid and its compounds. 2,403,148; July 2.
Whitson, John W., New York, N. Y. Perforating device for index cards. 2,403,035; July 2.
Wickman, A. C., Limited, assignee: *See*—
Banning, Alfred J.
Widman, Charles H., Detroit, and O. Mueller, Dearborn, Mich. Making caterpillar links. 2,403,159; July 2.
Wilcoxon, Kenneth H., Cabin John, and L. Landweber, Bethesda, Md. Water kite. 2,403,036; July 2.
Wildt and Company Limited, assignee: *See*—
Wildt, Edwin, Holmes, and Hurd.
Wildt, Edwin, H. H. Holmes, and J. C. H. Hurd, assignors to Wildt and Company Limited, Leicester, England. Knitted fabric. 2,403,201; July 2.
Wilkins, Richard A., and E. S. Bunn, Rome, assignors to Revere Copper and Brass Incorporated, New York, N. Y. Recovering the constituents of scrap bi-metal. 2,403,419; July 2.
Williams, Milton, Houston, Tex., assignor to Standard Oil Development Company. Removal of H_2S from gases. 2,403,319; July 2.
Williams, Russell J., Richmond Heights, and A. S. Littlefield, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag filling apparatus. 2,403,149; July 2.
Willingham, Elijah N., Santa Rosa, Calif. Protractor for pipe bending machines. 2,403,420; July 2.
Winther, Martin P., trustee, assignee: *See*—
Winther, Martin P.
Winther, Martin P., Waukegan, Ill., assignor to M. P. Winther, trustee. Electromagnetic apparatus. 2,403,421; July 2.
Wirtel, Arthur F.: *See*—
De Groote, Melvin, Keiser, and Wirtel.
Witter, Lawrie L., assignee: *See*—
Sullivan, John J.
Wittkuhns, Bruno A.: *See*—
Hight, William R., and Wittkuhns.
Woodbury, Stephen E., assignor to Reid Brothers Company, Inc., Beverly, Mass. Grinding machine. 2,403,160; July 2.
Woodward, Joseph H., Los Angeles, Calif. Fish lure. 2,403,202; July 2.
Worthington, Wayne H., assignor to John Deere Tractor Company, Waterloo, Iowa. Power lift. 2,403,422; July 2.
Wyandotte Chemicals Corporation, assignee: *See*—
Wegst, Walter F., Bacon, and McNabney.
Yankun, Peter W., Dorchester, Mass. Combination tool. 2,403,254; July 2.
Yardeny, Michel N., New York, N. Y. Remote-control apparatus. 2,403,161; July 2.
Yarrum, Incorporated, assignee: *See*—
Murray, Thomas E., Phelps, and Frischmann.
Yellen, Joseph W., assignee: *See*—
Rossi, Peter.
Young, Roger D., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Heat shield. 2,403,203; July 2.
Zancan, Ottavio, New York, N. Y. Shift lever for transmissions. 2,403,162; July 2.
Zeigler, Paul P., and L. E. Householder, Louisville, Ky., assignors to Reynolds Metals Company, Richmond, Va. Corrosion-resistant high-strength alloys, and method. 2,403,037; July 2.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,403,320; July 2.
Ziegler, Eugene R., Spencerport, assignor to Ritter Company, Inc., Rochester, N. Y. Electrical heating device. 2,403,163; July 2.
Zurcher, Paul, Ponca City, Okla., assignor to Continental Oil Company. Paint. 2,403,423; July 2.
Zuschlag, Theodore, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y. Demagnetizing apparatus. 2,403,424; July 2.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lapping block. K. R. Sjogren. Re. 22,770; July 2.
Luminous article and method. J. R. Lynch. Re. 22,769; July 2.

LIST OF PLANT INVENTIONS

Barberry plant. C. De Groot. 703; July 2.
Buddleia plant. P. J. Schmidt. 705–6; July 2.
Rose plant. F. H. Howard. 702; July 2.
Rose plant. W. E. Lammerts. 704; July 2.

LIST OF DESIGN INVENTIONS

Airplane. K. R. Riegel. 145,145; July 2.
Antenna. G. H. Brown. 145,116; July 2.
Box or similar article, Wind control weatherproof feed. C. Fenton. 145,124; July 2.
Box, Shoe shine. J. T. Pearson, Jr. 145,143; July 2.
Clock and kiddie schedule, Combined. L. Cookston. 145,121; July 2.
Counter, Display. F. G. Welke. 145,148–9; July 2.
Earring. C. W. Hardy. 145,134; July 2.
Earring. F. Morrow. 145,140; July 2.
Fabric. R. S. Caplin. 145,119; July 2.
Fixture, Self-service frosted food. C. F. Hoffman. 145,136; July 2.
Fork or other article of flatware. J. R. Price. 145,144; July 2.
Game board. R. W. Byrer. 145,118; July 2.
Holder for cocktail or soda stirrers, pencils, or the like. M. Rosenblatt. 145,146; July 2.
Lamp, Electric. J. Lolli. 145,137–8; July 2.
Lighter, Cigar and cigarette. J. Galter. 145,130; July 2.
Lighter, Cigarette. R. Feurer. 145,125; July 2.
Mat or similar article, Place. K. C. Hamilton. 145,133; July 2.
Napkin or similar article. K. C. Hamilton. 145,132; July 2.
Pen, Fountain. T. F. Brinson. 145,114–15; July 2.
Pencil and calendar, Combined. L. B. Crain. 145,122; July 2.
Pipe, Smoking. H. A. Bercu. 145,113; July 2.
Sign, Theater. R. L. Byrd. 145,117; July 2.
Spoon or other article of flatware. E. J. Conroy. 145,120; July 2.
Stove, Cooking. A. E. Smallwood and L. Guild. 145,147; July 2.
Table. F. Grossi. 145,131; July 2.
Toy ferry boat. G. N. Overath. 145,142; July 2.
Toy, Figure. R. C. Flynt. 145,126–9; July 2.
Tray and holder, Combined cigarette. G. Dubey. 145,123; July 2.
Tricycle. A. Hecht. 145,135; July 2.
Truck, Utility. G. H. Lowerre. 145,139; July 2.
Vehicle, Motor. J. V. O'Neill. 145,141; July 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive, Synthetic resin bonded. G. F. D'Alelio. 2,403,213; July 2.
Abrasives, Manufacture of. N. E. Oglesby. 2,403,018; July 2.
Accounting apparatus. A. H. Dickinson. 2,402,988; July 2.
Accumulating apparatus. A. H. Dickinson. 2,402,989; July 2.
Acetaldehyde, Producing. A. R. Globus. 2,402,958; July 2.
Acid and its compositions, Making fluoboric. W. E. White. 2,403,148; July 2.
Acid, Chlorination of saturated hydrocarbons and recovering hydrochloric. L. Glenn, Jr., R. Heitz, and G. Henderson. 2,402,978; July 2.
Acid, Concentration of nitric. F. S. Chambers, Jr., and R. N. Gartside. 2,403,050; July 2.
Acid esters, Production of thickened products from fatty. P. Stamberger. 2,403,408; July 2.
Acid fading on cellulose acetate with melamine resin, Inhibition of. H. C. Olpin and S. A. Gibson. 2,403,019; July 2.
Activating compositions. F. V. Nugent. 2,402,975; July 2.
Actuator, Linear. W. P. Lear. 2,403,092; July 2.
Adapter, Lathe. H. C. Graebe. 2,403,175; July 2.
Aircraft. E. A. Stalker. 2,403,133; July 2.
Alkylation. J. R. Meadow. 2,403,013; July 2.
Alloys and method, Corrosion-resistant high-strength. P. P. Zeigler and L. E. Householder. 2,403,037; July 2.
Alloys, Heat resistant. H. Scott and R. B. Gordon. 2,403,128; July 2.
Alloys, Zinc base. E. S. Bunn. 2,403,337; July 2.
Aluminum, Joining. M. A. Miller. 2,403,110; July 2.
Anchor, Expansion earth. C. R. Pieper. 2,403,150; July 2.
Antenna construction, Loop. W. P. Lear. 2,403,093; July 2.
Anticorrosion composition. P. W. Fischer and V. N. Jenkins. 2,403,067; July 2.
Anticorrosion composition. J. J. Miskel. 2,403,293; July 2.
Antifriction drive. F. M. Slavic. 2,403,096; July 2.
Apparatus for forming evaporated films. J. E. Swope, Jr., A. F. Turner, and O. A. Ullrich, Jr. 2,403,199; July 2.
Apparatus for making collapsible tubes. B. Bogoslowsky. 2,403,042; July 2.
Apparatus for measuring tensile or compression loads. W. H. Roberts. 2,403,194; July 2.
Apparatus for undisturbed overburden sampling. H. L. Johnson. 2,403,002; July 2.
Applicator. R. H. Noble. 2,403,016; July 2.
Armature winding. E. I. Pollard. 2,403,118; July 2.
Autostop, Air operated. S. M. Nampa. 2,403,014; July 2.
Automatic frequency control circuit. E. F. McClain, Jr. 2,403,011; July 2.
Base and socket, Lamp. A. B. Oday. 2,403,114; July 2.
Beam device, Electron. A. L. Samuel. 2,403,025; July 2.
Bearing. A. A. Griffith. 2,403,176; July 2.
Bearing adjusting means. F. V. Cook and J. R. Polston. 2,403,171; July 2.
Bearing surface for tapered rotary valves of engines and pumps. F. M. Aspin. 2,403,165; July 2.
Benzene, Alkylation of. E. N. Rosenquist and R. W. Sudhoff. 2,403,124; July 2.
Blade, Lawn mower. W. H. Phelps. 2,403,236; July 2.
Blasting plug. B. L. Lubelsky and W. R. Walburn. 2,403,386; July 2.
Block: *See*—
Lapping block.
Bobbin for use in spinning or weaving. C. Van Deventer. 2,403,417; July 2.
Bolt and nut, Blind fastening. D. C. Benton. 2,403,330; July 2.
Booster, Ammunition feed. J. E. Chapman and G. A. Bussiere. 2,403,170; July 2.
Boron from boron polluted substances, Removal of. H. B. Gustafson and E. Kominek, Jr. 2,402,959; July 2.
Brake: *See*—
Recoil brake.
Brazing. M. A. Miller. 2,403,109; July 2.
Breaker, Circuit. R. C. Cunningham. 2,403,055; July 2.
Breaker, Circuit. A. W. Hill and J. M. Cumming. 2,403,082; July 2.
Brushing apparatus. E. T. Linderoth. 2,403,105; July 2.
Building siding. C. A. Weseman. 2,403,318; July 2.
Burner: *See*—
Charcoal burner. Gas burner.
Burner. H. J. De N. McCollum. 2,402,971; July 2.
Burner construction. G. F. Turner. 2,403,142; July 2.
Cages, Safety means for mine. E. Bjerke. 2,403,333; July 2.
Cake cutter. A. J. Parraga. 2,403,190; July 2.
Calculating machine. C. M. Friden and A. B. Machado. 2,403,273; July 2.
Calculating machine. C. M. Friden and J. L. Moody. 2,403,069; July 2.
Calculating machine. J. L. Moody. 2,403,111; July 2.
Calculating machine, Typewriting. C. D. Lake and F. E. Hamilton. 2,403,005; July 2.
Camera construction, Photograph. M. Schwartz and W. Castedello. 2,403,308; July 2.
Can opener. J. M. Johnson. 2,403,373; July 2.
Cans. R. S. Solinsky. 2,403,030; July 2.
Car construction. G. E. Dath. 2,402,987; July 2.
Car structure, Railway refrigerator. E. R. Battley and G. E. McCoy. 2,402,980; July 2.
Carbon, Making of activated. A. M. Thomsen. 2,403,140; July 2.
Carbon pieces, Making artificial. A. Richon. 2,403,301; July 2.
Carding engine. J. Locke. 2,403,384; July 2.
Carton and blank, Pouring. J. J. Sullivan. 2,403,138; July 2.
Carton or container. K. T. Buttery. 2,403,047; July 2.
Cashew nut shell liquid, Treating. N. E. Berry and R. E. Kremers. 2,402,940; July 2.
Catalytic dehydrogenation processes, Effecting. R. M. Cole and I. I. Shultz. 2,403,052; July 2.
Catalytic processes. S. H. McAllister, J. Anderson, and W. E. Ross. 2,403,107; July 2.
Catalyzed reaction, Effecting. L. S. Kassel. 2,403,375; July 2.
Cathode ray sweep circuit. W. D. Hershberger. 2,403,278; July 2.
Caustic products. C. B. Gardenier. 2,403,071; July 2.
Cellular systems, Making. B. J. Craig. 2,403,265; July 2.
Cellulose derivative compositions. J. E. Bludworth. 2,402,942; July 2.
Centrifugal pump. G. H. Garraway. 2,402,995; July 2.
Centrifugal separator. E. Lars. 2,403,089; July 2.
Chain: *See*—
Nonskid chain.
Chair: *See*—
Tiltable chair.
Chair iron. H. W. Sheldrick and W. P. Hoglund. 2,403,198; July 2.
Charcoal burner. W. B. Stephenson. 2,403,134; July 2.
Charge forming device. J. T. W. Moseley, H. A. Carlson, and A. N. Szwargulski. 2,403,390; July 2.
Chemical compounds, Manufacture of. A. O. Franz and L. H. Juel. 2,403,068; July 2.
Chemical process. A. D. Green. 2,403,276; July 2.
Chemical process and products. P. L. Barrick. 2,403,207; July 2.
Chrome beryllium alloy steel and articles of manufacture produced therefrom. E. G. Touceda and R. P. De Vries. 2,403,141; July 2.
Chuck. P. Geren. 2,403,100; July 2.
Chuck, Boring. H. F. Brown. 2,403,336; July 2.
Chucking machine, Alternating cutoff. A. E. Drissner. 2,402,990; July 2.
Circuit: *See*—
Automatic frequency control circuit. Cathode ray sweep circuit.
Circuit and system therefor, Tuned. W. van B. Roberts. 2,403,151; July 2.
Circuit breaker construction. P. M. Christensen. 2,403,051; July 2.
Circuit interrupter. W. M. Leeds. 2,403,103; July 2.
Circuit interrupter. H. L. Rawlins and J. J. Mikos. 2,403,121; July 2.
Cleaner: *See*—
Roll cleaner.
Cleaning device, Egg. M. A. Brown. 2,402,946; July 2.
Cleaning horse, Adjustable saddle. G. C. Anderson. 2,403,324; July 2.
Cleaning internal-combustion engines, Flushing liquid for. R. E. Burk. 2,403,169; July 2.
Closure. W. J. Keith. 2,403,287; July 2.
Closure, Laminated container. W. A. Smith. 2,403,131; July 2.
Coating apparatus. T. G. Cunning. 2,402,986; July 2.
Coating process, Metal. A. Douty and G. C. Romig. 2,403,426; July 2.
Coil and condenser, Combination. C. E. Dolberg. 2,403,349; July 2.
Collar can collar and mounting therefor. W. F. Punte. 2,403,192; July 2.

Collet. A. M. Stoner. 2,403,136; July 2.
Color, Dehydrated caramel. W. A. Heyman. 2,402,999; July 2.
Colored gas signal. D. M. MacMillan and J. Vinton. 2,402,968; July 2.
Combination tool. P. W. Yankun. 2,403,254; July 2.
Combustion engine. F. G. Prieto. 2,403,395; July 2.
Composition for effecting agglomeration of solids in aqueous suspensions. R. Tutt, Jr., J. R. Hubbard, and C. R. McKee. 2,403,143; July 2.
Composition of matter and making same. M. De Groote. 2,403,343–4; July 2.
Composition of matter and making same. M. De Groote, B. Keiser, and A. F. Wirtel. 2,403,345; July 2.
Constituents of scrap bi-metal, Recovering the. R. A. Wilkins and E. S. Bunn. 2,403,419; July 2.
Container. B. Bogoslowsky. 2,402,943; July 2.
Container. H. E. Braloff. 2,402,944; July 2.
Container. R. O. Pickin. 2,403,299; July 2.
Control system. F. P. Elliott. 2,402,992; July 2.
Control system. D. Santini and E. H. Heath. 2,403,125; July 2.
Control system, Compass. W. P. Lear. 2,403,091; July 2.
Control system for fuel burners. C. K. Strobel. 2,403,411; July 2.
Control system for fuel burners, Ignition and safety. C. K. Strobel and S. G. Eskin. 2,403,412; July 2.
Control system, Gunfire. J. F. Peters. 2,403,117; July 2.
Control system, Rudder. W. B. Elmer and R. R. Rimer. 2,403,064; July 2.
Control unit, Power transmission. W. P. Lear. 2,403,101; July 2.
Controller, Slack. W. W. Stewart. 2,403,135; July 2.
Conveyer, Flight. J. F. Rixon. 2,403,024; July 2.
Conveyer mechanism. A. A. Tunley. 2,403,249; July 2.
Cooling apparatus, Water. C. P. Freer. 2,403,272; July 2.
Copolymers of acrylic esters and vinyl esters, Deesterification of. W. O. Kenyon, T. F. Murray, Jr., and L. M. Minsk. 2,403,004; July 2.
Correction device for gyroscopic compasses, Automatic. W. R. Hight and B. A. Wittkuhns. 2,403,000; July 2.
Counter, Traffic. G. R. Hall. 2,403,277; July 2.
Coupling: *See*—
Disengaging coupling. Hose coupling.
Coupling arrangement, Flexible gear. R. L. Morey. 2,403,389; July 2.
Crankshafts by electric welding, Making. F. A. Carstens. 2,403,049; July 2.
Curler, Cold wave hair. J. M. Simons. 2,403,244; July 2.
Current motor. R. W. Harbaugh. 2,403,178; July 2.
Cutter: *See*—
Cake cutter.
Cutting mechanism, Thread. F. Nell. 2,403,015; July 2.
Cyclopentanes, Manufacture of. R. M. Hill and H. G. Codet. 2,403,281; July 2.
Cylinder assembly. J. B. Parsons. 2,403,020; July 2.
Damper. F. J. Kurth. 2,403,291; July 2.
Deflector, Insect. J. I. Hoag. 2,402,963; July 2.
Demagnetizing apparatus. T. Zuschlag. 2,403,424; July 2.
Derrick, Portable. H. D. Hilborn. 2,403,081; July 2.
Desk set mounting. P. C. Hull. 2,403,083; July 2.
Detector for centimeter waves, Standing wave. N. I. Korman. 2,403,289; July 2.
Device for supplying starting fuel. Bo N. Hoffström. 2,402,964; July 2.
Dielectric composition. M. Baer. 2,403,205; July 2.
Dielectric composition and making same. M. Baer. 2,403,206; July 2.
Differential pressure gauge. R. Beck. 2,403,256; July 2.
Digger, Post-hole. L. J. Beyerink. 2,403,041; July 2.
Digging machine, Trench. A. C. Howard. 2,403,367; July 2.
Diolefin isomers, Separation of conjugated. D. Craig. 2,403,054; July 2.
Discharge apparatus, Electric. R. M. Smith. 2,403,130; July 2.
Disengaging coupling. A. Bechler. 2,403,208; July 2.
Disintegrating head. M. C. Rawson. 2,403,193; July 2.
Drawing-layout table, Positioning. H. G. Butler. 2,403,338; July 2.
Drawing press. A. Lefere. 2,403,183; July 2.
Dresser, Grinding wheel edge. W. F. Dalzen. 2,403,266; July 2.
Dressing device, Grinding wheel. E. Brocker. 2,403,945; July 2.
Duplicating machine. C. H. Bradt. 2,403,259; July 2.
Electric apparatus, Thermal protection of. F. R. Jackson, Jr. 2,403,372; July 2.
Electric discharge lamp. E. Lemmers. 2,403,184; July 2.
Electric soldering iron. O. Wertheim and L. Moses. 2,403,158; July 2.
Electric water heater. R. A. Blanchard. 2,403,334; July 2.
Electrical apparatus. J. F. Kovalsky. 2,403,087; July 2.
Electrically-heated device and resistance element therefor. A. E. Reimers. 2,403,022; July 2.
Electrode foundation structures, Manufacturing. H. B. Law. 2,403,225; July 2.
Electrode holder. M. S. Kenworthy. 2,403,086; July 2.
Electrode structure and manufacture. H. B. Law. 2,403,224; July 2.
Electromagnetic apparatus. M. P. Winther. 2,403,421; July 2.
Electron discharge tubes, Target electrode for. A. Rose. 2,403,239; July 2.
Electric discharge tube. W. C. Brown. 2,402,983; July 2.
Emulsions, Manufacturing of photographic. T. T. Baker. 2,403,327; July 2.
Engine: *See*—
Carding engine. Two-cycle internal-combustion engine.
Combustion engine.
Internal-combustion engine.
Eraser, Adjustable. F. C. Peterson. 2,403,235; July 2.
Ester and polymer thereof, Unsaturated carbonate. I. E. Muskat and F. Strain. 2,403,113; July 2.
Ester-salts of leuco quinones, Manufacture of sulphuric. H. Z. Lecher, M. Scalera, and C. T. Lester. 2,403,226; July 2.
Evaporators, Agitator for cascade. C. R. Cash. 2,403,211; July 2.
Fastener device, Closure. H. Auslander and I. M. Krischer. 2,402,939; July 2.
Fastening device. G. C. Sullivan. 2,403,247; July 2.
Fiberboard, Producing variegated pressed. H. K. Linzell. 2,402,966; July 2.
Fibers from proteins, Production of. F. K. Watson. 2,403,251; July 2.
Fibers, Processing vegetable. C. D. Best. 2,403,331; July 2.
Filling apparatus, Bag. R. J. Williams and A. S. Littlefield. 2,403,149; July 2.
Filter. L. J. Clark. 2,403,261; July 2.
Filtration, Method and apparatus for. C. L. and C. J. Peterson. 2,403,021; July 2.
Firearm construction. F. W. Sampson. 2,403,306; July 2.
Fish water, Treatment of. R. C. Ernst. 2,403,174; July 2.
Fixture for spreading mortar on glass blocks. W. Bortolotti. 2,403,335; July 2.
Flash from soft molded articles, Removing. L. W. Lubenow. 2,402,967; July 2.
Flux valve. M. C. Depp. 2,403,347; July 2.
Folding and stacking machine, Combined. J. E. Preston. 2,403,394; July 2.
Footwear, Manufacture of. T. T. Taylor. 2,403,313; July 2.
Fruit picker. G. A. Morrell. 2,403,294; July 2.
Fuel and process for thermally working minerals therewith, Flux-forming. C. J. Burch. 2,402,947; July 2.
Fuel tank lining, Aircraft. F. T. Weiss and W. A. Sullivan. 2,403,200; July 2.
Fuels, Diesel. G. H. B. Davis. 2,403,267; July 2.
Fuels for aircraft engines. G. H. B. Davis, W. J. Sweeney, and W. A. Herbst. 2,403,268; July 2.
Fuels, Production of high octane number. A. P. Hewlett. 2,403,279; July 2.
Furnace device. T. H. Breen. 2,403,044; July 2.
Gas burner. T. H. Thiele. 2,403,139; July 2.
Gas filling and tipping-off envelopes, Method and apparatus for. W. J. Geiger and R. J. Ayres. 2,403,073; July 2.
Gaseous electrical space discharge rectifying device. P. W. Stutsman. 2,403,033; July 2.
Gasket. E. A. Hertzell and R. H. Anderson. 2,403,364; July 2.
Gauge: *See*—
Differential pressure gauge
Gauge for dental treatment, Jaw. K. Horvat. 2,403,366; July 2.
Gear: *See*—
Running gear.
Gear testing work holder. L. D. Martin. 2,403,008; July 2.
Generating cell, Ozone. R. J. Schaefer. 2,403,241; July 2.
Generating system and its use in signal transmission systems, Pulse. T. A. McCann. 2,403,009; July 2.
Generator: *See*—
Steam generator.
Glass building construction. J. C. Huber, Jr. 2,403,369; July 2.
Glass, Installation for laminated. D. T. Downes. 2,403,060; July 2.
Glasses, Eyeshield for. S. Kaesz. 2,403,228; July 2.
Governor for tools, Centrifugal. W. G. Mitchell. 2,402,972; July 2.
Grapple for handling crossties and the like. A. M. Delters. 2,403,346; July 2.
Greases, Lithium. E. B. Lien. 2,403,104; July 2.
Grinder, Cylinder ridge. E. S. Hanson, Jr. 2,403,363; July 2.
Grinding machine. C. A. Carlson. 2,403,341; July 2.
Grinding machine. S. E. Woodbury. 2,403,160; July 2.
Guard for fluorescent lamps, Retaining. K. A. Sawin. 2,403,240; July 2.
Guide, Roller. A. R. Diamond and W. Stever. 2,402,952; July 2.
Guns, Heating. G. Van Daam. 2,403,415; July 2.
H_2S from gases, Removal of. M. Williams. 2,403,319; July 2.
Hair treating machine. B. A. Dodd. 2,403,350; July 2.
Halogenosilanes, Alkylation of. D. T. Hurd. 2,403,370; July 2.

Harvester. J. E. Erickson. 2,403,271; July 2.
Head for lathes, Turret. F. Sirola. 2,403,405; July 2.
Headlight indicator. V. J. Roper. 2,403,123; July 2.
Heater: *See*—
  Electric water heater. Portable heater.
Heater. H. J. De N. McCollum. 2,402,970; July 2.
Heater. H. J. De N. McCollum. 2,403,189; July 2.
Heater control system, Water. C. M. Osterheld. 2,403,116; July 2.
Heating apparatus. H. J. De N. McCollum. 2,403,188; July 2.
Heating device, Electrical. E. R. Ziegler. 2,403,163; July 2.
Heating system. J. H. Leslie, II. 2,403,186; July 2.
Heating unit, Water. M. Doerner. 2,403,173; July 2.
High-frequency impedance-matching device. H. A. Wheeler. 2,403,252; July 2.
Hitch device. C. G. Strandlund. 2,403,410; July 2.
Hitch, Snow plow shoe. A. L. and C. A. Hanson. 2,403,219; July 2.
Hoist, Cargo. W. P. Lear. 2,403,099; July 2.
Hoist, Traversing. W. P. Lear. 2,403,095; July 2.
Holder: *See*—
  Electrode holder. Gear testing work holder.
Hollow rivets, Tool for collapsing. R. S. Colley. 2,403,262; July 2.
Honing tool. G. E. Straham. 2,403,409; July 2.
Hose coupling. G. G. Howard. 2,403,368; July 2.
Hydraulic drive. A. A. Fiddler. 2,403,214; July 2.
Hydraulic mechanism. A. J. Banning. 2,403,328; July 2.
Hydraulic press. W. P. Muir. 2,403,391; July 2.
Hydraulic pump. W. Messinger. 2,403,292; July 2.
Hydrocarbon isomerization process. C. O. Tongberg. 2,403,314; July 2.
Hydrocarbon mixture, Chlorination of. C. M. Hull and E. L. d'Ouville. 2,403,179; July 2.
Hydrocarbons, Conversion of. R. B. Day. 2,403,342; July 2.
Hydrocarbons, Isomerization of low-boiling saturated. J. P. Jones. 2,403,181; July 2.
Ice cube manufacturing apparatus. A. D. Smith. 2,403,406; July 2.
Image, Intensification of the latent. F. W. H. Mueller and J. E. Bates. 2,403,428; July 2.
Images of heat-radiating objects, System for forming. J. Evans. 2,403,066; July 2.
Implement, Agricultural. G. M. Boumphrey. 2,403,209; July 2.
Implement, Agricultural. W. S. Graham. 2,403,360; July 2.
Implement, Clamping. H. T. Jones. 2,403,180; July 2.
Index cards, Perforating device for. J. W. Whitson. 2,403,035; July 2.
Indicating system, Electrical position. H. C. Roters. 2,403,152; July 2.
Indicator: *See*—
  Headlight indicator.
Induction apparatus, Electrical. H. S. Gates. 2,403,072; July 2.
Inhibitor, Pickling. A. J. Saukaitis. 2,403,153; July 2.
Injection device, Hypodermic. B. J. Goldsmith. 2,403,074; July 2.
Insulated conducting member and applying the insulation. G. Camilli. 2,403,340; July 2.
Intermittent current operated motor. C. S. Weyandt and E. J. Missien. 2,403,034; July 2.
Internal-combustion engine. F. J. Holmes. 2,403,282; July 2.
Internal-combustion engines, Cooling system for. H. W. Hanners. 2,403,218; July 2.
Internal-combustion engines, Valve guide of. H. N. Charles. 2,403,260; July 2.
Iron: *See*—
  Chair iron. Electric soldering iron.
Iron hydrate and the manufacture and use of the same. S. P. Todd and F. C. Verduin. 2,403,248; July 2.
Isomeric paraffins, Separation of. A. W. Francis. 2,402,954; July 2.
Jettisoning means for the sliding canopies of airplane cockpits. C. M. Verhagen. 2,403,250; July 2.
Jeweler's wrench. L. A. Cormier. 2,403,264; July 2.
Joint for electric lamps or similar devices, Filament. J. W. Fulton. 2,403,070; July 2.
Journal lubricator. W. J. Fitzsimmons. 2,402,953; July 2.
Kiln, Dry. R. A. Simmons. 2,403,154; July 2.
Kite. A. A. Concepcion. 2,403,212; July 2.
Kite, Water. K. H. Wilcoxon and L. Landweber. 2,403,036; July 2.
Knitted fabric. E. Wildt, H. H. Holmes, and J. C. H. Hurd. 2,403,201; July 2.
Lamp: *See*—
  Electric discharge lamp.
Lamp. C. E. Meyerhoefer. 2,403,108; July 2.
Lamps and the like, Basing for electric. R. F. Strickland. 2,403,137; July 7.
Lasting machine and method. B. Jorgensen. 2,403,003; July 2.
Latch. H. Engert. 2,403,065; July 2.
Lathe center, Hydraulic. L. A. Barto. 2,402,979; July 2.
Lathes, Geared center raiser for. R. E. Garrett. 2,403,357; July 2.
Leg rest and table, Combined. C. Collins. 2,403,268; July 2.
Lever for transmissions, Shift. O. Zancan. 2,403,162; July 2.
Lift assembly attachments, Hydraulic. W. C. Francis. 2,403,356; July 2.
Lift, Power. W. H. Worthington. 2,403,422; July 2.
Links, Making caterpillar. C. H. Widman and O. Mueller. 2,403,159; July 2.
Lint trap. R. M. Vandegriff. 2,403,416; July 2.
Loader, Magazine. L. L. McPheters. 2,403,012; July 2.
Loading machine, Detonator. C. R. Johnson. 2,403,286; July 2.
Lubricant. H. E. Ballard. 2,403,167; July 2.
Lubricant. J. A. Patterson. 2,403,234; July 2.
Lubricating composition. R. F. McCleary. 2,402,969; July 2.
Lubricating device. E. W. Davis. 2,403,058; July 2.
Lubrication as applied to the processing of aluminum and aluminum alloys. F. E. Rosenstiehl. 2,403,238; July 2.
Lubrication, Bearing. D. B. Baker and W. O. Bechman. 2,403,326; July 2.
Lubrication system. D. R. Rankin. 2,403,397; July 2.
Lubricator: *See*—
  Journal lubricator.
Luminescent apparatus and method of developing luminescence. H. W. Leverenz. 2,403,227; July 2.
Luminescent material. H. C. Froelich. 2,402,955; July 2.
Lung, Self contained breathing. J. Browne. 2,402,984; July 2.
Lure, Fish. J. H. Woodward. 2,403,202; July 2.
Machine for driving curved self-retroverting nails. J. N. M. Howells. 2,403,222; July 2.
Machine for making hollow rivets. C. R. Nichols, Jr., and R. H. Simpson. 2,403,297; July 2.
Machine for producing convex surfaces. J. T. Bolas, R. W. Edwards, and W. J. Latty. 2,403,168; July 2.
Machine for producing screw threads. A. Green. 2,403,075; July 2.
Machine tool. P. R. Powell. 2,403,119; July 2.
Magnesium-titanium-oxygen compounds and preparing the same. A. T. McCord and H. F. Saunders. 2,403,228; July 2.
Markings to surfaces, Application of. P. E. James. 2,403,084; July 2.
Mask construction. A. H. Bulbulian. 2,403,046; July 2.
Mattress. J. W. Bowersox. 2,403,043; July 2.
Meter mounting. H. P. Sparkes and E. G. Johansson. 2,403,132; July 2.
Micrometer, Speed. P. J. Jackman. 2,403,285; July 2.
Modulation system. F. H. Slaymaker. 2,403,245; July 2.
Modulation system, Multiple pulse. W. A. S. Butement and A. J. H. Oxford. 2,403,210; July 2.
Modulator for echo effect, Reverberation. M. Parisier. 2,403,232; July 2.
Modulator, Reverberations. M. Parisier. 2,403,231; July 2.
Molded compositions from unsaturated esters, Preparing. I. E. Muskat. 2,403,112; July 2.
Molded part and forming same. M. M. Culver and L. L. Duncan. 2,402,950; July 2.
Mooring device. C. A. Davis. 2,403,057; July 2.
Motor: *See*—
  Current motor.
  Intermittent current operated motor.
Motor control, Electric. W. C. Spear and L. C. Schaefer. 2,403,156; July 2.
Motor control system, Electric. C. J. Caldbeck. 2,403,048; July 2.
Motor system, Synchronized direct current. W. P. Lear. 2,403,097; July 2.
Mounting: *See*—
  Desk set mounting. Meter mounting.
Mower. S. E. Hilblom. 2,403,365; July 2.
Nonskid chain. J. Sweeney. 2,403,312; July 2.
Oil burning equipment and controlling mechanism therefor. T. Nagel and H. D. Bliss. 2,403,230; July 2.
Oils, Method of treating. K. M. Laing. 2,403,088; July 2.
Olefins, Hydrogenating. H. F. Kohler. 2,403,288; July 2.
1-substituted-2,5-diketo-7-methylpyrimidopyrazoles as couplers for color photography. A. Bavley. 2,403,329; July 2.
Operating device, Surgical. J. A. Reyniers. 2,403,400; July 2.
Operating mechanism, Multiple accessory. V. J. Plotkin. 2,403,102; July 2.
Organ, Electronic. M. J. Larsen. 2,403,090; July 2.
Package, Bandage. G. D. Beal and C. Y. Emery. 2,402,981; July 2.
Package, Bandage. C. Steenbergen. 2,402,982; July 2.
Packing, Plastic. H. E. Ballard. 2,403,166; July 2.
Pad: *See*—
  Shoulder pad. Writing pad.
Paint. P. Zurcher. 2,403,423; July 2.
Paperhanger's tool. J. F. Frantz. 2,402,994; July 2.
Pen, Fountain. M. S. Baker. 2,403,039; July 2.
Pendant suspension. C. E. Fyfe. 2,402,956; July 2.
Percolator, Vacuum siphon. F. E. Scott. 2,403,404; July 2.

Phosphatidic lubricant and making. J. J. Jacobs. 2,403,284; July 2.
Photography, Color. A. Bavley. 2,403,040; July 2.
Piano action protector. A. A. Rouse. 2,403,196; July 2.
Pigment, Perthiocyanic-acid. W. H. Hill. 2,402,962; July 2.
Pigments, Perthiocyanic metal. W. H. Hill. 2,402,961; July 2.
Pipe bending machines, Protractor for. E. N. Willingham. 2,403,420; July 2.
Pipe wrench. F. W. Livermont. 2,403,187; July 2.
Planter. L. H. Kaupke and L. E. Smith. 2,403,376; July 2.
Plate for door locks, Adjustable strike. J. P. Leary and C. W. Michatek. 2,403,182; July 2.
Plate, Wiping. L. N. Hampton. 2,402,998; July 2.
Plug: *See*—
  Blasting plug.
Polynuclear aromatic hydrocarbons, Manufacture of. J. E. Schulze. 2,403,127; July 2.
Porcelain enameled products, Joinder of. W. W. Higgins. 2,403,079; July 2.
Portable heater. T. F. Spackman. 2,403,155; July 2.
Powerplant. F. C. Reggio. 2,403,399; July 2.
Power plant, Gas turbine. A. H. Morey and A. Howard. 2,403,388; July 2.
Preselecting mechanism, Torque. W. P. Lear. 2,403,094; July 2.
Press: *See*—
  Drawing press. Hydraulic press.
Press. A. A. Byerlein. 2,403,389; July 2.
Printing machines, Delivery mechanism for. J. H. Edwards. 2,403,062; July 2.
Printing telegraph apparatus. D. P. Needham and J. Stussi. 2,403,296; July 2.
Projector for page printers. W. H. Eddy. 2,403,269–70; July 2.
Projector for page printers. R. G. Schuler. 2,403,307; July 2.
Projector for page printers. W. J. Zenner. 2,403,320; July 2.
Propeller for airplanes, Auxiliary. J. Ernest. 2,403,353; July 2.
Propeller, Synchronizing. E. Seppeler. 2,403,243; July 2.
Protective system. O. C. Traver. 2,403,414; July 2.
Protector: *See*—
  Piano action protector.
Pump: *See*—
  Centrifugal pump. Suction pump.
  Hydraulic pump. Variable output pump.
Pump. A. D. Reisert and L. C. Rotter. 2,403,122; July 2.
Radiant energy responsive directional, Control. M. A. McLennan. 2,403,387; July 2.
Radioactive apparatus. C. W. Wallhausen. 2,403,316; July 2.
Raising and lowering portable derricks, Method and means for. H. D. Hilborn. 2,403,080; July 2.
Rake, Side delivery. E. L. Rietz. 2,403,401; July 2.
Rake, Sweep. O. J. Durand. 2,403,351; July 2.
Razor, Mechanical. J. Sonne. 2,403,407; July 2.
Razor strop. A. Kuzdal. 2,403,380; July 2.
Recoil brake. H. B. Maris. 2,403,007; July 2.
Recorder, Magnetic. W. K. Caughey and K. D. Swartzel. 2,402,985; July 2.
Recorder mechanism. C. D. Lake and F. E. Hamilton. 2,403,006; July 2.
Reel: *See*—
  Thread advancing reel.
Refrigerating apparatus. T. B. Gilliam. 2,403,275; July 2.
Refrigerating apparatus of the compression type. R. Hintze. 2,403,220; July 2.
Regulated system. D. M. Lawrence. 2,403,381; July 2.
Regulating means, Engine. F. C. Reggio. 2,403,398; July 2.
Regulator. J. E. Bevins. 2,403,332; July 2.
Regulator. J. Peterson. 2,403,393; July 2.
Remote-control apparatus. M. N. Yardeny. 2,403,161; July 2.
Remote-control system. J. W. Conklin. 2,403,053; July 2.
Remover for sweep wheels or the like for repairing watches. E. Gottlieb. 2,403,216; July 2.
Reservoir for ink bottles, Auxiliary. E. C. Schweppe. 2,403,242; July 2.
Resinous compositions and electrical conductors insulated therewith. H. Foster. 2,403,215; July 2.
Resins of vinyl type, Molding. W. S. Crowell and G. W. Birch. 2,403,172; July 2.
Retarding device, Hydraulic dashpot. J. H. Abbink-Spaink and A. Spencer. 2,403,321; July 2.
Ring: *See*—
  Spinning and twisting ring.
Roll cleaner. A. F. Kalmar and G. E. Stilwell. 2,403,374; July 2.
Roll, Scoring. D. E. Kelley. 2,403,377; July 2.
Rope. R. F. Warren, Jr. 2,403,317; July 2.
Rule, Slide. S. Lerner. 2,403,382; July 2.
Running gear. J. M. Hait and T. B. Keesling. 2,403,362; July 2.
Sadiron, Electric. B. G. Olving. 2,403,115; July 2.
Saw, Combination. E. K. Shoultz. 2,403,027; July 2.
Scale, Hydraulic. B. D. Feld. 2,403,204; July 2.

Scarf. G. W. Geissmann. 2,403,396; July 2.
Scraper. V. J. Olson. 2,403,276; July 2.
Screw. A. Gerhold. 2,403,859; July 2.
Seal. F. E. Payne. 2,403,298; July 2.
Seat construction for vehicles, Swivelled and shock absorbing. W. A. Morse. 2,402,974; July 2.
Seat for faucets, Valve. T. E. Smith. 2,403,029; July 2.
Separator: *See*—
  Centrifugal separator.
Shelf, Refrigerator. R. S. Ahrens and W. A. Ellsworth. 2,403,164; July 2.
Shield, Cockpit. De W. T. Ross, Jr. 2,403,193; July 2.
Shield, Heat. R. D. Young. 2,403,203; July 2.
Shoes, Making. J. White. 2,403,253; July 2.
Shoulder pad. W. R. Gershen. 2,403,274; July 2.
Signal: *See*—
  Colored gas signal.
Signal-translating system. B. D. Loughlin. 2,403,235; July 2.
Signaling system, Coded track circuit. T. J. Judge. 2,403,085; July 2.
Signaling system, Coded track circuit. N. D. Preston. 2,403,120; July 2.
Sizing and lubricating bullets, Method and apparatus for. W. G. Stevens, Jr. 2,403,032; July 2.
Snow removal apparatus. J. E. Becker. 2,403,257; July 2.
Snubber. C. A. Edstrom. 2,403,352; July 2.
Soap, Making. B. H. Thurman. 2,403,413; July 2.
Socket, Earphone. J. Volkmann. 2,403,418; July 2.
Socket, Lamp. H. S. Bixby. 2,402,941; July 2.
Solenoid. H. W. Trevaskis. 2,403,315; July 2.
Speed-change mechanism. C. C. De Pew. 2,402,951; July 2.
Spinning and twisting ring. G. F. Albrecht. 2,403,255; July 2.
Spring element and construction. A. Krakauer. 2,403,379; July 2.
Stabilized composition and method. B. B. McHan. 2,403,010; July 2.
Starting device. T. A. Daly. 2,403,056; July 2.
Steam generator. F. Falla. 2,402,993; July 2.
Steam generator. K. F. Nordlund. 2,403,017; July 2.
Steering device, Booster. G. E. Armington. 2,403,325; July 2.
Structure and method, Laminated. A. Hershberger. 2,403,077; July 2.
Strut for tricycle landing gears, Front. R. L. Levy. 2,403,383; July 2.
Suction pump. W. A. Dunham. 2,402,991; July 2.
Sugar solutions, Clarifying. H. B. Gustafson and L. A. Paley. 2,402,960; July 2.
Sugar treatment. H. B. Gustafson. 2,403,177; July 2.
Sulphide polymer and making it, Reactive. J. C. Patrick and H. R. Ferguson. 2,402,977; July 2.
Sulphonic compounds, Preparation of. N. E. Lemmon, D. W. Bransky and E. E. Langan. 2,403,185; July 2.
Superheater baffling. E. M. Powell and W. S. Patterson. 2,403,237; July 2.
Supporting device, Clothesline. A. Nagy. 2,403,295; July 2.
Supporting means, Lamp. T. B. Farrington, W. T. Keller, and R. K. Farrington. 2,403,355; July 2.
Surface-active agents. D. Aelony. 2,403,038; July 2.
Suspension for compasses and similar instruments. E. W. Esdaile. 2,403,354; July 2.
Switch. W. B. Elmer. 2,403,063; July 2.
Switch for ignition systems, Floating breaker. H. L. Hull. 2,403,283; July 2.
Switches or electrical timing devices for controlling the operations of laundry or other plants or apparatus, Electric master. S. Newberry. 2,403,392; July 2.
Synchronization control, Automatic motor. W. P. Lear. 2,403,098; July 2.
Tablet and making and applying it, Selenium. O. Saslaw. 2,403,026; July 2.
Telefacsimile system, Secrecy. G. V. Dillenback, Jr., and A. G. Cooley. 2,403,059; July 2.
Telegraph system, Secret. R. M. Hicks. 2,403,280; July 2.
Telemetering systems, Transmitter for. D. W. Moore, Jr. 2,402,973; July 2.
Television follower apparatus. F. W. Reynolds. 2,403,023; July 2.
Textile rope-stacking apparatus. S. Steele. 2,403,311; July 2.
Thread advancing reel. R. W. Stanley and W. B. Lowe 2,403,031; July 2.
Tieback, Curtain or drapery. J. Hagen. 2,403,361; July 2.
Tiltable chair. H. W. Bolens. 2,403,425; July 2.
Timing device. C. S. Hornberger. 2,402,965; July 2.
Tire for airplane wheels. R. J. Smith. 2,403,309; July 2.
Tool: *See*—
  Combination tool. Paperhanger's tool.
  Honing tool. Tube bending tool.
  Machine tool.
Tooth, Excavating. H. C. Hettelsater. 2,403,078; July 2.
Toy airplanes, Landing gear for. H. E. Shaeffer. 2,403,129; July 2.
Toy high diving apparatus, Mechanical. A. B. Carmichael, Sr. 2,402,949; July 2.
Tractors, Clutch structure for crawler. R. D. Acton. 2,403,322; July 2.

Transmission. A. E. Kilpela. 2,403,378; July 2.
Transmitting and reproducing system, method, and apparatus, Facsimile. A. E. Gerhard and E. G. Fraim. 2,403,358; July 2.
Trap: *See*—
Liut trap.
Truck, Car. T. V. Buckwalter. 2,403,045; July 2.
Tube: *See*—
Electronic discharge tube.
Tube bending tool. C. E. Adreon. 2,403,323; July 2.
Tuning arrangement. W. L. Carlson. 2,402,948; July 2.
Turnbuckle. P. Rossi. 2,403,402; July 2.
Two-cycle internal-combustion engine. M. Mallory. 2,403,106; July 2.
Tying mechanism. R. R. Raney. 2,403,396; July 2.
Ultra-high frequency apparatus. M. R. Richmond. 2,403,302–3; July 2.
Ultra-high frequency ignition device. N. I. Korman. 2,403,290; July 2.
Utensil and its heating means, Cooking. J. H. Grayson. 2,402,997; July 2.
Utensil, Cooking. A. W. Phillips. 2,403,191; July 2.
Valve: *See*—
Flux valve.
Valve construction, High pressure. T. R. Smith. 2,403,029; July 2.
Valve for internal-combustion engine. E. N. Jacobi. 2,403,001; July 2.
Valve mechanism. O. H. Ludeman. 2,403,427; July 2.
Variable output pump. R. J. Ifield and W. E. W. Nicolls. 2,403,371; July 2.
Varnish compositions, Preparation of. A. E. Rheineck and S. B. Crecelius. 2,403,300; July 2.
Vehicle: *See*—
Wheeled vehicle.
Washing machine. A. M. Dinetz. 2,403,348; July 2.
Washing machine. A. J. Patch. 2,403,233; July 2.
Welding apparatus. C. D. Howard. 2,403,221; July 2.
Welding, Electric flash. W. C. Heath. 2,403,076; July 2.
Welding, Electric resistance. T. E. Murray, G. H. Phelps, and G. Frischmann. 2,403,229; July 2.
Wheel. D. W. Voorhees. 2,403,146; July 2.
Wheel and motor suspension, especially for automobiles. T. Ulrich. 2,403,145; July 2.
Wheeled vehicle. W. J. Hale. 2,403,217; July 2.
Winding machine, Automatic. C. C. Westergaard. 2,403,147; July 2.
Window construction. D. T. Downes. 2,403,061; July 2.
Window construction. J. Sperling. 2,403,246; July 2.
Wing, Airplane rotary. G. A. Geddes. 2,402,957; July 2.
Wrench: *See*—
Jeweler's wrench. Pipe wrench.
Wrench. W. H. Boyles. 2,403,258; July 2.
Wringer, Rinse. A. Schellenberg. 2,403,126; July 2.
Writing pad. E. Schaller. 2,403,197; July 2.
Yarn carrier with replaceable yarn guide eyelet. H. Staub. 2,403,310; July 2.
Yarn production, High twist artificial. E. A. Robinson and A. De Castro. 2,403,304; July 2.
Yarns, Production of high twist artificial. L. E. Rossiter and R. M. Beach. 2,403,305; July 2.
Zincated alkalies, Manufacture of. W. F. Wegst, L. R. Bacon, and R. McNabney. 2,403,157; July 2.

CLASSIFICATION OF PATENTS

ISSUED JULY 2, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1—	46: 2,403,222	60—	62.5: 2,403,277	113—	59: 2,403,221	173—	328: 2,402,941	212—	87: 2,403,095	252—	65: 2,403,205
2—	13: 2,403,223		97: 2,403,422		111: 2,402,998	175—	21: 2,403,340		93: 2,403,099		66: 2,403,206
	91: 2,402,996	62—	2: 2,403,275	114—	23: 2,403,064		181: 2,403,424	214—	65.2: 2,403,356		149: 2,403,153
	268: 2,403,274		17: 2,402,980		230: 2,403,057		222: 2,403,132	215—	43: 2,403,287		156: 2,403,157
5—	189: 2,403,379		106: 2,403,406		235: 2,403,036		294: 2,403,055		44: 2,403,131		172: 2,403,169
	355: 2,403,043		116: 2,403,220	117—	28: 2,403,018		2,403,156	218—	19: 2,403,262		181: 2,403,143
7—	14.4: 2,402,994		141: 2,403,272		45: 2,403,084		2,403,414	219—	4: 2,402,952		2,403,144
8—	61: 2,403,019	63—	2: 2,402,956		75: 2,403,077		341: 2,403,315		8: 2,403,086		190: 2,403,071
10—	11: 2,403,297	64—	9: 2,403,389	120—	38: 2,403,235		361: 2,403,072		10: 2,403,076		289: 2,403,140
	145: 2,403,015	66—	126: 2,403,310		47: 2,403,039		363: 2,403,053		19: 2,403,415		301.4: 2,402,955
12—	14: 2,403,003		201: 2,403,201		69: 2,403,242	176—	29: 2,403,114		25: 2,403,115	255—	1.4: 2,403,002
	142: 2,403,253	68—	22: 2,403,126		108: 2,403,083		32: 2,403,137		27: 2,403,158		1.8: 2,402,947
	2,403,313	69—	19: 2,403,324	121—	38: 2,403,328		38: 2,403,070		39: 2,403,116		19: 2,403,041
15—	41: 2,403,105	72—	16: 2,403,369	122—	250: 2,403,173		122: 2,403,184		2,403,163	260—	23: 2,403,166
18—	13: 2,403,016		128: 2,403,335		355: 2,403,017	177—	311: 2,403,123		40: 2,403,334		32: 2,402,975
	54: 2,402,942	73—	93: 2,403,194		473: 2,402,993		346: 2,402,992	220—	54: 2,403,192		36: 2,403,172
	54.7: 2,403,301		178: 2,403,000		480: 2,403,237		380: 2,402,973		60: 2,403,030		2,403,215
	56: 2,403,265		350: 2,403,372	123—	51: 2,403,395		2,403,347		94: 2,403,191		78: 2,403,112
19—	7: 2,403,331		412: 2,403,256		58: 2,403,282	178—	6.8: 2,403,066	222—	13: 2,403,376		2,403,113
	105: 2,403,384	74—	75: 2,403,233		65: 2,403,106		7.2: 2,403,023		318: 2,403,299		79: 2,402,977
20—	2: 2,403,203		277: 2,402,951		119: 2,403,399		22: 2,403,280		324: 2,403,122		84: 2,403,004
	5: 2,403,318		424.8: 2,403,092		145: 2,403,290		44: 2,403,252	226—	18: 2,403,149		104: 2,403,300
23—	2: 2,403,319		458: 2,403,096		174: 2,403,218		2,403,289		20: 2,403,073		323: 2,403,226
	91: 2,402,959		473: 2,403,162		180: 2,402,964		69.5: 2,403,059	229—	5.5: 2,402,943		404: 2,403,344
	139: 2,403,148	75—	63: 2,403,419		188: 2,403,001		70: 2,403,009		17: 2,403,138		404.8: 2,403,345
	154: 2,402,978		125: 2,403,141		2,403,260	179—	1: 2,403,231		37: 2,403,047		406: 2,403,343
	200: 2,403,248		171: 2,403,128	125—	11: 2,402,945		2,403,232		41: 2,402,944		468: 2,403,038
24—	221: 2,403,247		178: 2,403,337		2,403,266		15: 2,403,210	230—	11: 2,403,332		504: 2,403,185
28—	71.5: 2,403,311	77—	3: 2,403,175	126—	29: 2,403,134		2,403,385		2,403,381		513: 2,403,207
	71.7: 2,403,031	81—	6: 2,403,216		116: 2,402,970		171: 2,403,151		74: 2,402,991		553: 2,403,068
29—	6: 2,403,049		2,403,264		2,403,189		171.5: 2,402,948	233—	21: 2,403,089		605: 2,402,958
	33: 2,403,183		78: 2,403,258		148: 2,403,044		182: 2,403,418	234—	58: 2,403,006		607: 2,403,370
	2,403,229		91: 2,403,187	127—	34: 2,402,999	180—	69: 2,402,963	235—	59: 2,403,005		624: 2,402,940
	38: 2,402,990	82—	28: 2,403,357		46: 2,402,950		79.2: 2,403,325		61: 2,402,988		2,403,013
	48: 2,403,405		33: 2,402,979		2,403,177	181—	58: 2,403,403		2,402,989		666: 2,403,281
	148.3: 2,403,159	84—	1.21: 2,403,090	128—	1: 2,403,400	183—	36: 2,403,416		2,403,152		671: 2,403,124
30—	15: 2,403,373		183: 2,403,196		142: 2,402,984		75: 2,403,261		63: 2,403,273		674: 2,403,127
	43: 2,403,407	85—	2.4: 2,403,330		2,403,046	184—	26: 2,403,058		70: 2,403,382		676: 2,402,954
	303: 2,403,190		47: 2,403,359		216: 2,403,074	187—	29: 2,403,125		133: 2,403,069		680: 2,402,276
33—	152: 2,403,254	86—	19: 2,403,032	132—	31: 2,403,350		82: 2,403,333		144: 2,403,111		681.5: 2,403,054
	164: 2,403,285		27: 2,403,286		34: 2,403,244	188—	97: 2,403,321	236—	33: 2,402,997		683.3: 2,403,052
	174: 2,403,366		47: 2,403,012	134—	140: 2,403,348		104: 2,403,421	237—	2: 2,403,186		683.4: 2,403,279
	179.5: 2,403,008	89—	14: 2,403,007	137—	139: 2,403,427		197: 2,403,135	240—	78: 2,403,240		2,403,342
	223: 2,403,091		33: 2,403,170	145—	31: 2,403,027	189—	15: 2,403,080	242—	56: 2,403,147		683.5: 2,403,107
34—	46: 2,403,154		41: 2,403,117	146—	89: 2,403,193		2,403,081		120: 2,403,417		2,403,181
37—	41: 2,403,219	90—	11.62: 2,403,075	148—	6.5: 2,403,426		64: 2,403,060	244—	39: 2,402,957		2,403,314
	43: 2,403,257		31: 2,403,168		21.1: 2,403,037		2,403,061		42: 2,403,133		683.6: 2,403,288
	94: 2,403,367	91—	12.2: 2,403,199		23: 2,403,110		92: 2,403,150		56: 2,403,353	261—	34: 2,403,390
	109: 2,402,976		43: 2,402,986		24: 2,403,109	192—	.02: 2,403,094		102: 2,403,102	264—	12: 2,403,214
39—	6: 2,403,014	92—	38: 2,402,966	152—	231: 2,403,312		2,403,101		103: 2,403,309		17: 2,402,972
42—	3: 2,403,306	93—	36: 2,403,042	153—	40: 2,403,323		48: 2,403,208		104: 2,403,383	265—	47: 2,403,204
43—	35: 2,403,202		58.1: 2,403,377		46: 2,403,420		2,403,378		121: 2,403,195	267—	21: 2,403,362
44—	70: 2,403,267		93: 2,403,062	154—	43.5: 2,403,200		69: 2,403,322		2,403,250	270—	82: 2,403,394
46—	76: 2,403,129	95—	6: 2,403,040		100: 2,403,026		110: 2,403,326		153: 2,403,212	274—	4: 2,402,985
	130: 2,402,949		2,403,329		129: 2,403,079	196—	13: 2,403,268	246—	33: 2,403,085	279—	6: 2,403,336
47—	59: Pl.Pt. 703		2,403,428	155—	9: 2,402,974		52: 2,403,375		38: 2,403,120		54: 2,403,136
	60: Pl.Pt. 705		7: 2,403,327		43: 2,403,263		147: 2,403,088	248—	320: 2,403,355		74: 2,403,100
	Pl.Pt. 706		44: 2,403,308		77: 2,403,198	197—	1: 2,403,320		358: 2,403,354	280—	9: 2,403,155
	61: Pl.Pt. 702	97—	47: 2,403,360		2,403,425		17: 2,403,270	250—	6: 2,403,358		33.16: 2,403,410
	Pl.Pt. 704		209: 2,403,209	158—	28: 2,402,971		82: 2,403,269		13: 2,403,302		250: 2,403,217
49—	78: 2,403,224		216: 2,403,078		2,403,188		125: 2,403,307		17: 2,403,303	281—	7: 2,403,197
	2,403,225	98—	40: 2,403,291		36: 2,403,230		149: 2,403,296		20: 2,403,011	285—	97.3: 2,403,368
51—	33: 2,403,341	99—	2: 2,403,010		99: 2,403,139	198—	20: 2,403,249		27: 2,403,025	286—	11: 2,403,298
	92: 2,403,160		2,403,174		105: 2,403,142		171: 2,403,024		27.5: 2,403,033	287—	20.5: 2,403,402
	184.3: 2,403,409		302: 2,403,404		117.1: 2,403,411		229: 2,403,374		33: 2,403,093	288—	24: 2,403,364
	190: 2,402,946	100—	20: 2,403,396		2,403,412	200—	30: 2,403,283		36: 2,403,245	292—	57: 2,403,065
	200: 2,403,380	101—	132: 2,403,259	159—	10: 2,403,211		35: 2,403,392		40: 2,403,349		103: 2,402,939
	212: Re. 22,770	102—	30: 2,403,386	160—	92: 2,403,246		52: 2,403,056		41.5: 2,403,387		340: 2,403,182
	245: 2,403,363		37.8: 2,402,968		349: 2,403,361		2,403,063		72: 2,403,316	294—	87: 2,403,346
	282: 2,402,967	103—	103: 2,402,995	161—	1: 2,402,965		82: 2,403,082		80: Re. 22,769		104: 2,403,180
	298: 2,403,213		162: 2,403,371	164—	47: 2,403,119		104: 2,403,087		164: 2,403,239	296—	28: 2,403,145
56—	25: 2,403,365		173: 2,403,292		90: 2,403,035		117: 2,403,121	251—	103: 2,403,165	301—	9: 2,403,146
	220: 2,403,271	105—	197: 2,403,045	170—	92: 2,403,178		150: 2,403,103		158: 2,402,950	308—	68: 2,403,171
	295: 2,403,236		2,403,352		135.6: 2,403,243		168: 2,403,051		159: 2,403,029		91: 2,402,953
	331: 2,403,294		200: 2,402,987		2,403,398	201—	67: 2,403,022		160: 2,403,028		93: 2,403,397
	377: 2,403,401	106—	14: 2,403,293	171—	97: 2,403,108	202—	40: 2,403,050	252—	37: 2,403,167		174: 2,403,176
	397: 2,403,351		146: 2,403,251		119: 2,403,393	204—	163: 2,403,179		39: 2,403,413	309—	2: 2,403,020
57—	120: 2,403,255		176: 2,402,961		252: 2,403,118		313: 2,403,241		42: 2,403,104	311—	4: 2,403,338
	140: 2,403,317		2,402,962	172—	179: 2,403,048	206—	63.2: 2,402,981		42.7: 2,402,969	315—	13: 2,403,227
	157: 2,403,304		254: 2,403,408		239: 2,403,098		2,402,982		48.2: 2,403,234		22: 2,403,278
	164: 2,403,305		263: 2,403,423		2,403,161	210—	201: 2,403,021		51: 2,403,067		44: 2,402,983
60—	49: 2,403,388		300: 2,403,228		240: 2,403,034	211—	119.07: 2,403,295		51.5: 2,403,238		97: 2,403,130
	52: 2,403,391	113—	46: 2,403,339		293: 2,403,097		153: 2,403,164		2,403,284		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,402,939:	292—103	2,403,018:	117— 28	2,403,105:	15— 41	2,403,224:	49— 78	2,403,279:	260—683.4	2,403,345:	260—404.8
2,402,942:	18— 54	2,403,026:	154—100	2,403,122:	222—324	2,403,226:	49— 78	2,403,284:	252—51.5	2,403,351:	55—397
2,402,969:	252—42.7	2,403,047:	229— 37	2,403,146:	301— 9	2,403,227:	315— 13	2,403,299:	222—318	2,403,402:	287—20.5
2,402,983:	315— 44	2,403,071:	252—190	2,403,151:	179—171	2,403,228:	106—300	2,403,301:	18— 54.7	2,403,409:	51—184.3
2,402,991:	220— 74	2,403,078:	90—11.62	2,403,164:	211—153	2,403,240:	160— 92	2,403,303:	250— 17		
2,403,002:	255— 1.4	2,403,079:	154—129	2,403,169:	252—172	2,403,255:	57—120	2,403,305:	57—164		
2,403,013:	220— 62.4	2,403,084:	117— 43	2,403,186:	237— 2	2,403,263:	155— 43	2,403,308:	246—103		
2,403,016:	18— 13	2,403,090:	84—1.21	2,403,205:	252— 65	2,403,278:	315— 22	2,403,311:	28—71.5		

Classification of Designs

D 1—12: Des. 145, 117	D34—15: Des. 145, 126	D44—24: Des. 145, 146	D54—12: Des. 145, 120	D74—17: Des. 145, 114	D85— 8: Des. 145, 113
D12— 2: Des. 145, 124	Des. 145, 127	D45— 9: Des. 145, 134	Des. 145, 144	Des. 145, 115	D92— 1: Des. 145, 119
D14— 3: Des. 145, 139	Des. 145, 128	Des. 145, 140	D58—12: Des. 145, 143	D80— 9: Des. 145, 148	
Des. 145, 141	Des. 145, 129	D48—20: Des. 145, 137	D59— 2: Des. 145, 132	Des. 145, 149	
D29—14: Des. 145, 116	Des. 145, 135	Des. 145, 138	Des. 145, 133	11: Des. 145, 136	
D33—14: Des. 145, 131	Des. 145, 142	27: Des. 145, 125	D71— 1: Des. 145, 145	D81— 4: Des. 145, 147	
D34— 5: Des. 145, 118	D42— 7: Des. 145, 121	Des. 145, 130	D74— 5: Des. 145, 122	D85— 2: Des. 145, 123	

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 588—No. 2 TUESDAY, JULY 9, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of July 9, 1946	181
Notice of Cancellation	181
Notice—Attorney's Address	181
Notice	181
Adjudicated Patents	181
Examiners' Letters and Amendments	181
Applications Under Examination	182
Decisions of the U. S. Courts—	
Rodli *v.* Phillippi; Rodli *v.* Ling and Phillippi	183
Kliesrath et al. *v.* Kesling	185
In re Gessler et al.	189
In re Tone et al.	190
Magitex Company, Inc., *v.* John Hudson Moore, Inc.	192
Register of Patents Available for Licensing or Sale	194
Trade-Marks Published (120 Applications)	197
Trade-Mark Registrations Granted	212
Trade-Mark Registrations Renewed	220
Plant Patents	227
Patents Granted	228
Designs	340

July 9, 1946

Trade-Marks	151—No.	422,141 to No. 422,291, inclusive.
T. M. Renewals	159	
Plant Patents	1—No.	707
Patents	466—No.	2,403,429 to No. 2,403,894, inclusive.
Designs	44—No.	145,150 to No. 145,193, inclusive.
Total	821	

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., June 13, 1946.*

Bach Laboratories, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Anna-Jean Yuill, 1 North La Salle Street, Chicago, Ill., to effect the cancellation of trade-mark registration of Bach Laboratories, Inc., 68 Springfield Ave., Newark, N. J., No. 278,912, dated January 6, 1931, and the notice of such proceeding sent by registered mail to the said Bach Laboratories, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Bach Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice—Attorney's Address

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Notice

Attorneys and others transacting business with the Patent Office are requested to conform with the provisions of rule 8, which is as follows:

"A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters. Papers sent in violation of this rule will be returned."

The filling of orders for photostatic copies can be greatly expedited if attorneys will comply with this rule, observing the following:

1. Separate letters should be written to order copies of each of the following types of material—
   (*a*) File wrapper and contents;
   (*b*) Publications and foreign patents;
   (*c*) Certified copies of patents and trade-mark registrations;
   (*d*) Copies of assignments (certified or uncertified).

2. If photostats are required for foreign filing these should be ordered at least one month before the attorney expects to transmit the material abroad.

3. Photostatic copies of applications as filed to be sent abroad should be ordered in advance of the payment of the final fee.

4. All orders for copies of records for which there is a charge, whether accompanied by a money order, check, or to be charged to the attorney's account, should be addressed to the the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Adjudicated Patents

(D. C. N. Y.) Wright and Pierce patent, No. 1,857,073, for a hood capping container, claims 4, 10, 22, 24, 26, 28, and 35 *Held* invalid. *Oswego Falls Corp.* v. *American Seal-Kap Corp.*, 65 F. Supp. 338; 69 USPQ 155.

(D. C. N. Y.) Wright and Pierce patent, No. 1,857,075, for a hood capping container, claims 12, 17, 18, 19, 24, and 26 *Held* invalid. *Id.*

(D. C. N. Y.) Wright and Pierce patent, No. 1,884,952, for a hood capping container, claims 1, 2, 3, 5, and 25 *Held* invalid. *Id.*

Examiners' Letters and Amendments

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Condition of Applications Under Examination at Close of Business June 21, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 115,247; Trade-Mark Division, 6,061. Oldest new case, January 12, 1945; oldest amended, February 12, 1945.)
(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Mar. 30	Apr. 26	1901
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 2	May 2	2318
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 14	1885
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	May 15	July 30	1965
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 16	Mar. 17	3101
6. GENIESSE, E. W., Carbon Chemistry (part)	July 30	Aug. 4	1803
7. JARBOE, C. G., Optics, Photography	Aug. 20	Sep. 5	2039
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 19	June 14	2592
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Mar. 31	Mar. 26	1886
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	Nov. 29	Nov. 19	588
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	May 7	May 14	2037
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	June 13	June 25	1742
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	Sep. 4	Aug. 17	1235
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	June 23	Aug. 6	1370
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	July 2	June 19	1232
16. LOVEWELL, N. N., Telegraphy; Telephony	Feb. 12	Feb. 12	1052
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 25	May 25	1665
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 20	Aug. 22	1341
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 5	May 17	1539
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	Aug. 31	Oct. 4	765
21. THOMPSON, T. J., Textiles	June 21	July 25	1654
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Apr. 3	May 11	260
23. LEWIS, J. B., Cash Registers; Calculators (part)	July 23	Sep. 8	1149
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	May 8	May 16	1400
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	Apr. 5	Apr. 14	1832
26. YOUNG, R. R., Electricity—Generation and Motive Power	Apr. 3	Mar. 23	1860
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	May 11	Apr. 13	1311
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 5	May 2	1883
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	May 21	June 9	2037
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	Dec. 8	Dec. 7	970
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	July 31	Aug. 3	1588
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	May 16	May 12	2233
33. ROE, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	May 31	June 29	1034
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	June 28	July 5	1570
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	May 10	May 30	1238
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Apr. 30	May 3	1427
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 21	June 7	1277
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	Apr. 7	Apr. 9	2110
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Aug. 1	July 25	2148
40. DRUMMOND, E. J., Receptacles (part); Packages	Mar. 15	Feb. 17	790
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Aug. 7	Aug. 17	968
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	May 1	May 7	1370
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	Mar. 27	Apr. 6	1035
44. HARVEY, L. P., Refrigeration; Preserving	June 27	June 21	2038
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	June 5	July 26	1255
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	Aug. 17	Aug. 17	2161
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Mar. 20	Mar. 20	1796
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	July 14	July 23	1355
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 7	July 7	2134
50. LEVIN, SAMUEL, Synthetic Resins	Apr. 27	Apr. 23	3460
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae)	Apr. 9	May 4	2765
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 10	Apr. 13	2645
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	Apr. 17	2032
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	May 2	Apr. 26	1541
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	Apr. 23	Apr. 25	1545
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Jan. 12	Mar. 3	2310
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewlery; Nut and Bolt Locks.	Oct. 29	Oct. 23	1069
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Apr. 10	Apr. 10	2013
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Apr. 19	June 2	1815
60. GLASS, R. L., Electricity Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	May 8	May 19	2161
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	Feb. 14	Mar. 12	2894
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Apr. 13	Apr. 16	2090
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Nov. 15	Nov. 16	1217
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	May 4	May 1	2214
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	Nov. 19	†Feb. 28	6081
Trade-Marks: RICHMOND, F. A.	Oct. 17	†Feb. 4	5537
Designs: KALUPY, H. H.			

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

RODLI v. PHILLIPPI

RODLI v. LING AND PHILLIPPI

Nos. 5,095 and 5,096. Decided March 6, 1946

[154 F.(2d) 139; 69 USPQ 97]

1. APPEAL—INTERFERENCE—FINDINGS OF FACT.

"An appellate tribunal such as this court will not lightly set aside findings of fact made by a trial tribunal, such as the Board of Interference Examiners of the United States Patent Office. That body is composed of experienced and competent triers of fact. As such they are daily accustomed to examining and weighing evidence adduced in interference proceedings. Obviously, its findings of fact in this case, as is asserted in the brief for Phillippi, 'should not be disturbed on appeal, unless there is most cogent evidence of mistake and miscarriage of justice * * *.'"

1. INTERFERENCE—TESTIMONY—COMPETENCY OF WITNESS.

The wife of the party Phillippi *Held* to be a competent witness.

3. SAME—REDUCTION TO PRACTICE.

Held that the beaded decalcomanias offered as exhibits by Phillippi "obviously constituted a reduction to practice of the counts."

4. SAME—PRIORITY.

Evidence reviewed and priority *Held* properly awarded to Phillippi.

APPEAL from the Patent Office. Affirmed.

Mr. Karl W. Flocks for Rodli.

Mr. Howard L. Fischer (*Mr. Frank A. Whiteley* and *Mr. Herbert H. Jacobi* of counsel) for Phillippi.

GARRETT, *P. J.*:

These are appeals from decisions of the Board of Interference Examiners of the United States Patent Office awarding priority to the party Phillippi. The subject matter of both interferences consists of a "marker decalcomania" hereinafter more particularly described. Because of the similarity of the subject matter and the issues respecting priority the records were combined in the Patent Office and come to us in consolidated form.

It will be observed from the formal caption that in appeal No. 5,095 the interference (No. 79,723) is solely between Rodli, appellant, and Phillippi as appellee, and that in appeal No. 5,096 (interference No. 79,724), Rodli is named as appellant and John M. Ling and Phillippi are designated as appellees. With respect to the latter case, the party Ling (the "juniormost" party) filed notice on June 1, 1945 (about two months after the record had been printed), that he would not proceed further in the appeal. So, appeal No. 5,096 is before us as a two-party case, in which only Rodli and Phillippi are involved.*

* The transcript certified to us embraced the record in a third case (appeal No. 5,097, interference No. 79,725) in which the party Ling was appellant, Phillippi and Rodli in the order named being the appellees, but that appeal was dismissed by us on June 20, 1945, upon motion of Ling. Being of no interest in the two cases involved it is not included in the caption.

So far as Phillippi and Rodli are concerned, both the interferences involved were declared on the same date—October 14, 1941—between the same respective applications of those parties. The application of Rodli, Serial No. 296,845, was filed September 27, 1939, and that of Phillippi, Serial No. 318,701, February 13, 1940.

No questions ancillary to priority were raised in the cases. So, determination of priority is dependent solely upon the evidence introduced during trial.

It was incumbent upon Phillippi as the junior party to establish priority by a preponderance of the evidence. To that end he himself testified and caused to be called certain parties as corroborating witnesses. He also introduced certain documentary and physical exhibits.

The party Rodli also took testimony consisting of his own and that of various other witnesses and introduced numerous exhibits.

Phillippi in his respective preliminary statements claimed reduction to practice on or about May 15, 1936, and, during the taking of testimony, introduced evidence by which he sought to establish an additional reduction to practice in the fall of 1937.

Rodli in his respective preliminary statements alleged dates for all pertinent activities, including reduction to practice, on or about September 1, 1938.

The Board awarded Phillippi reduction to practice "not later than the early part of 1938," and, since that was prior to any pertinent date alleged by Rodli, held it unnecessary to discuss the latter's evidence.

While the subject matter of the counts involved in both interferences is substantially the same, the fact that Ling was a party below in interference No. 79,724 necessitated separate decisions by the Board, but since he is no longer a party, and the issues are practically identical as between Phillippi and Rodli we may discuss and determine the two cases together.

In interference No. 79,723 (appeal No. 5,095) only one count is involved. It reads:

A marker decalcomania comprising a backing, a soluble adhesive, a reflecting binder, said reflecting binder being loaded over a portion of its area with small glass spheres.

Interference No. 79,724 (appeal No. 5,096) embraces three counts, which read as follows:

1. A decalcomania comprising a backing sheet, a paste coating thereupon, a flexible coating adhered to said paste coating, and a multiplicity of transparent reflecting elements closely grouped and adhered to said flexible coating.
2. A decalcomania comprising a backing sheet, a paste coating thereupon, a transparent flexible film adhered to said coating, and a multiplicity of transparent reflecting elements closely grouped and adhered to said flexible film.
3. A decalcomania comprising a backing sheet, an adhesive coating thereupon, a film releasably adhered to said adhesive coating, and a multiplicity of reflex reflecting elements adhered to said film and removable therewith.

In analyzing the counts the brief for Rodli directs attention to the fact that one element of the count in interference No. 79,723 is defined as "a reflecting

binder," while in the other counts the corresponding element is referred to as "flexible coating" or "transparent flexible film" or "a releasable film" and asserts that the difference is "significant."

It is not contended, however, that Phillippi's disclosure fails to support all the counts, and, in the final analysis, the contention on behalf of Rodli is, to state it bluntly, that the testimony introduced on behalf of Phillippi may not be accepted as true.

That constitutes the only issue in the cases. If we follow the Board and accept it as true, the decisions appealed from must, of course, be affirmed.

In view of this situation we have scrutinized the testimony with great care, in the light of Rodli's analysis of it, as stated in his brief, and in the oral argument before us, as well as in the light of the Board's discussion and analysis of it.

[1] It is elemental, of course, that an appellate tribunal such as this court will not lightly set aside findings of fact made by a trial tribunal, such as the Board of Interference Examiners of the United States Patent Office. That body is composed of experienced and competent triers of fact. As such they are daily accustomed to examining and weighing evidence adduced in interference proceedings. Obviously, its findings of fact in this case, as is asserted in the brief for Phillippi, "should not be disturbed on appeal, unless there is most cogent evidence of mistake and miscarriage of justice * * * ."

In view of the character of the issue presented, it seems proper to quote literally from the Board's decision rather than attempt to paraphrase it. We quote the following from the decision in interference No. 79,723 which is repeated, practically word for word, in the decision in interference No. 79,724:

> The party Phillippi contends that he reduced the invention to practice on May 15, 1936 at which time he allegedly made a decal in the form of the initial "M" and placed the same in his notebook under the date of May 15, 1936. This has been introduced in evidence as Phillippi Exhibit 1.
>
> It is also contended that the invention was again reduced to practice in 1937 when Phillippi asserts he applied a beaded transparent decal to one half of a sign which is here in evidence as Phillippi Exhibit 4.
>
> Helen Phillippi, Phillippi's wife, testified concerning Phillippi Exhibit 1 as follows:
>
> Q. 12. Did your husband ever explain an invention he had?
> A. Yes, he did.
> Q. 13. Will you relate what it was, or what he told you about it?
> A. Well, it was in May, 1936, and he came home and said he really had something, and he showed me an initial transfer which had beads applied on it. He held it up to the light and showed me how it would reflect the light and cause an illumination, and then he said he was going to make a complete new build-up of it and he made a drawing at that time and I signed his notes that day.
> Q. 14. Was he in the habit of keeping records of his ideas?
> A. Yes, as long as I can remember he always did, of varnishes and adhesives and different things he came across.
> Q. 15. Then he made a practice of keeping a record of his different developments?
> A. Yes, as long as I remember, he did.
> Q. 16. You said you signed the record he made May 15, 1936?
> A. Yes.
> Q. 17. I show you Phillippi Exhibit 1 and ask if you can identify your signature here?
> A. Yes, this is it up here in the left-hand corner.
> Q. 18. Is it on any other sheet in the book?
> A. Yes, it is on this one.
> Q. 19. That is on the opposite page of the book, in the lower right-hand corner?
> A. Yes, I saw him take the backing sheet off this initial and mount it on a piece of paper. (Witness points to the initial M of the beaded decalcomania pasted in Exhibit 1.)
> Q. 20. He took that off and demonstrated how it operated?
> A. Yes, how it slid off the backing sheet. I knew what decalcomanias were.
> Q. 21. When did you sign your name, Helen Phillippi, here in the right-hand corner of one sheet and at the top in the left-hand corner on the other side of the book?
> A. Well, at the same time.
> Q. 22. What date?
> A. The 15th of May, 1936.
>
> She testified as to Exhibit 4 as follows:
>
> Q. 29. I show you Phillippi Exhibit 4 and ask if you can identify it?
> A. Yes, I can, he made this sign for my father.
> Q. 30. Your father's name is—
> A. Dan Sampson.
> Q. 31. Did your father have a summer resort?
> A. Yes, a resort in northern Minnesota.
> Q. 32. Did you say Mr. Phillippi made this sign for your father?
> A. Yes, he did.
> Q. 33. Do you know when?
> A. Well, approximately, 1937. The reason I say that is I know he made transparent film, and I watched him apply this transparent film, and that was about the same time.
> Q. 34. Did you see him put this diagonal piece of transparent film on the side?
> A. Yes, he put it on only half of the sign to show how the half with the beads on would reflect or illuminate.
> Q. 35. Can you tell us more clearly just when he did that?
> A. Well, I am sure it was in 1937, because I know that is the time he made the film and it was at that time, at the same time he was making these signs, I saw him make them.
> * * * * * * *
> Q. 37. Can you further identify this Exhibit 4 and tell me a little more clearly as to your recollection of when he made it, the date?
> A. Well, as I said, it was at the time he made the transparent film and that was in 1937, because I signed his notes at that time when he made the film, and also, it was a little over a year after he had been working at Jeffry-McPherson, and he had come up to my dad's and he told him he was going to make some signs for him, and that was in the summer-time.
>
> *There was no cross-examination on this part of her testimony.* [Italics supplied here.]
>
> Elaine Hurley, who was a stenographer and bookkeeper for the Jeffry-McPherson Printing Company and who also helped in the shop at times, testified that she was so employed from December 1935 to December 1937 and that during that time Phillippi showed her a beaded decalcomania similar to Phillippi Exhibits 9A and 9B which had light reflecting beads, and that he showed her how it could be transferred. It is apparent from her testimony that she understood what decalcomanias were, and that she had helped make them.
>
> Charles Welty, testified that Phillippi told him about beaded monogram decalcomanias in July of 1937 at which time he showed him articles like Phillippi Exhibits 9A and 9B. Phillippi demonstrated how they worked by wetting them and sliding them off.
>
> Welty further testified that Phillippi showed him the beaded summer resort sign, Phillippi Exhibit 4, in the early spring of 1938 at which time he also showed him some transparent decalcomania material like Phillippi Exhibit 4A which he demonstrated by transferring to a colorful portion of a calendar with the result that the coloring was emphasized.
>
> The record shows that Phillippi was enthusiastic over the beaded decalcomanias but was financially unable to commercialize them himself or to file a patent application thereon. However, he was active in trying to interest someone to finance him and finally was successful in securing aid during the summer of 1939.
>
> It appears from the patents cited during the prosecution of the Phillippi application and from Phillippi's testimony that flexible backings covered with paint or varnish in which glass beads were embedded were old in the art prior to any date alleged by the parties herein. It also appears that decalcomanias were old and well known in the art. Under these circumstances and as the count is not limited to a road marker, it is believed that it is only necessary to establish that a beaded decal could be successfully transferred in order to constitute a reduction to practice of a decalcomania according to the issue herein.
>
> The limitation of "marker" is not deemed to be such as to limit the device to a highway or outdoor marker, although that appears to be the principal use to which the parties eventually put their devices; but merely limits the device to one which may be employed to attract attention or convey information. Obviously, the initial monograms and the summer resort sign of Phillippi respond to this requirement.
>
> It is argued that the testimony of Phillippi and his witnesses is based very much on recollection and is not supported by any written or documentary evidence.
>
> The law is well settled that oral testimony is competent, and we find nothing in the record to discredit the assertions of the witnesses as to what transpired and when.
>
> It is contended by Rodli, that whatever Phillippi may have done on May 15, 1936, with respect to the alleged transfer in Phillippi Exhibit 1 constituted neither a conception nor a reduction to practice of an operative loaded decal because Phillippi stated that his first attempt was to apply beads over a printed decalcomania but that he found this material was not flexible. This contention overlooks the fact that Phillippi further stated that on the same day he created a series of flexible beaded films of his own of which the initial M, Phillippi Exhibit 1, is allegedly one.
>
> We are of the opinion that the testimony of Phillippi and his corroboratory witnesses as outlined above, adequately establishes that the invention was reduced to practice not later than the early part of 1938 by both the initials and by the resort sign and that, although Phillippi did not file his application until long after that time, he never abandoned the invention. No unfavorable inference can be drawn from this long delay in filing which has been satisfactorily explained by Phillippi's financial condition.

[2][3] We deem it somewhat significant that Mrs. Phillippi was not cross-examined on that part of her testimony relating to Exhibits 1 and 4. She was a competent witness and we find nothing anywhere in the record, either circumstantial or direct, which would justify an assumption that she was not speaking truly. The exhibits obviously constituted a reduction to practice of the counts and, as we view it, if they were made at the times she said they were made Phillippi was entitled to those dates for reduction to practice.

With respect to the testimony of the witness Welty, referred to in the Board's decision, it is contended on behalf of Rodli that it is entitled to practically no weight, in part because he testified from recollection, but largely because he is alleged to have acquired a one-third interest in Phillippi's patent application. It appears from Welty's testimony that as early as 1937 Phillippi sought to obtain his aid in financing a patent application and showed him different devices which according to Welty's description of them apparently embodied the invention of the counts, but, seemingly, Welty declined to aid him until sometime in 1939, which was long subsequent to the period awarded Phillippi by the Board for reduction to practice. We can discern no reason for doubting the integrity of Welty as a witness.

It may be noted that the Board's findings of fact were direct findings based upon Phillippi's record—not upon interferences or speculations. Rodli's contentions before us consist almost wholly of inferences which it is insisted should be drawn because of the interest of Phillippi, his wife, and Welty in the outcome of the litigation.

Among other things, Rodli's counsel apparently seeks to have the court question the existence in May 1936 of the notebook in which Exhibit 1 was inserted. We find no reason for indulging any doubt in that regard.

[4] Since, as has been indicated, the sole issue here relates finally to the veracity of Phillippi and his corroborating witnesses and since we discern no reason for differing from the Board's conclusion in that regard, it is unnecessary to prolong this opinion by discussing in further detail the arguments and speculations put forward on Rodli's behalf, nor is it necessary to review Rodli's record.

The decision of the Board of Interference Examiners in interference No. 79,723 (appeal No. 5,095) is affirmed.

The decision of the Board of Interference Examiners in interference No. 79,724 (appeal No. 5,096) is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

KLIESRATH ET AL. *v.* KESLING

No. 5,065. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 514; 69 USPQ 377]

1. INTERFERENCE—REDUCTION TO PRACTICE—TESTS.
   "It was not demonstrated that the device installed on the Dodge car was a practicable operative device for accomplishing the function for which it was designed. The record clearly shows that there was such noise and clashing of gears as to lend belief to the fact that great damage would result to the gears if such shifting device was employed. The fact that it was put on and taken off the car and adjusted 25 or 30 times without any curing of this defect and that it was given a bench test, the results of which were not stated, not only does not support the theory that the test showed a satisfactory performance but, in our judgment, negatives that conclusion."
2. SAME—SAME—SAME.
   "We think it is not a sufficient explanation to say in this proceeding that the said unsatisfactory results flowed from the fact that the Dodge car had no synchronizers connected with its shifting mechanism. There was no demonstration at any time during said tests that the device would work upon a car with proper synchronizers. If the parties, at the time they were adjusting and testing the device, had been of the opinion that the defect flowed from the lack of synchronizers and that the device was otherwise regarded as satisfactory, it seems reasonable to conclude that they would have tested it on a car whch they thought was properly equipped for better performance."
3. SAME—COUNTS—CONSTRUCTION.
   Where the counts of the interference, copied by appellee in his reissue application from the patent to appellants, contained the same limitation as to "longitudinal movements" as claims allowed to appellee in the same application by the Court of Customs and Patent Appeals upon a previous ex parte appeal, *Held* that with respect to that limitation the counts would be construed in the same manner as the court had construed the claims, since if the counts were so interpreted they would distinguish from the prior art and read upon the disclosures of both parties.
4. SAME—SAME—SAME.
   "When the tribunals of the Patent Office interpret the counts of an interference in a certain manner for the purpose of rendering the counts patentable over the prior art this interpretation will be accepted by us in our consideration on appeal."
5. SAME—PRIORITY.
   "It follows that since Kliesrath et al. have failed to establish reduction to practice prior to the date for reduction to practice properly awarded to Kesling and the required diligence not having been shown, priority was properly awarded by the Board to the senior party, Kesling, and its decision so doing is affirmed."

APPEAL from the Patent Office. Affirmed.

binder," while in the other counts the corresponding element is referred to as "flexible coating" or "transparent flexible film" or "a releasable film" and asserts that the difference is "significant."

It is not contended, however, that Phillippi's disclosure fails to support all the counts, and, in the final analysis, the contention on behalf of Rodli is, to state it bluntly, that the testimony introduced on behalf of Phillippi may not be accepted as true.

That constitutes the only issue in the cases. If we follow the Board and accept it as true, the decisions appealed from must, of course, be affirmed.

In view of this situation we have scrutinized the testimony with great care, in the light of Rodli's analysis of it, as stated in his brief, and in the oral argument before us, as well as in the light of the Board's discussion and analysis of it.

[1] It is elemental, of course, that an appellate tribunal such as this court will not lightly set aside findings of fact made by a trial tribunal, such as the Board of Interference Examiners of the United States Patent Office. That body is composed of experienced and competent triers of fact. As such they are daily accustomed to examining and weighing evidence adduced in interference proceedings. Obviously, its findings of fact in this case, as is asserted in the brief for Phillippi, "should not be disturbed on appeal, unless there is most cogent evidence of mistake and miscarriage of justice * * * ."

In view of the character of the issue presented, it seems proper to quote literally from the Board's decision rather than attempt to paraphrase it. We quote the following from the decision in interference No. 79,723 which is repeated, practically word for word, in the decision in interference No. 79,724:

> The party Phillippi contends that he reduced the invention to practice on May 15, 1936 at which time he allegedly made a decal in the form of the initial "M" and placed the same in his notebook under the date of May 15, 1936. This has been introduced in evidence as Phillippi Exhibit 1.
>
> It is also contended that the invention was again reduced to practice in 1937 when Phillippi asserts he applied a beaded transparent decal to one half of a sign which is here in evidence as Phillippi Exhibit 4.
>
> Helen Phillippi, Phillippi's wife, testified concerning Phillippi Exhibit 1 as follows:
>
> Q. 12. Did your husband ever explain an invention he had?
> A. Yes, he did.
> Q. 13. Will you relate what it was, or what he told you about it?
> A. Well, it was in May, 1936, and he came home and said he really had something, and he showed me an initial transfer which had beads applied on it. He held it up to the light and showed me how it would reflect the light and cause an illumination, and then he said he was going to make a complete new build-up of it and he made a drawing at that time and I signed his notes that day.
> Q. 14. Was he in the habit of keeping records of his ideas?
> A. Yes, as long as I can remember he always did, of varnishes and adhesives and different things he came across.
> Q. 15. Then he made a practice of keeping a record of his different developments?
> A. Yes, as long as I remember, he did.
> Q. 16. You said you signed the record he made May 15, 1936?
> A. Yes.
> Q. 17. I show you Phillippi Exhibit 1 and ask if you can identify your signature here?
> A. Yes, this is it up here in the left-hand corner.
> Q. 18. Is it on any other sheet in the book?
> A. Yes, it is on this one.
> Q. 19. That is on the opposite page of the book, in the lower right-hand corner?
> A. Yes, I saw him take the backing sheet off this initial and mount it on a piece of paper. (Witness points to the initial M of the beaded decalcomania pasted in Exhibit 1.)
> Q. 20. He took that off and demonstrated how it operated?
> A. Yes, how it slid off the backing sheet. I knew what decalcomanias were.
> Q. 21. When did you sign your name, Helen Phillippi, here in the right-hand corner of one sheet and at the top in the left-hand corner on the other side of the book?
> A. Well, at the same time.
> Q. 22. What date?
> A. The 15th of May, 1936.
>
> She testified as to Exhibit 4 as follows:
>
> Q. 29. I show you Phillippi Exhibit 4 and ask if you can identify it?
> A. Yes, I can, he made this sign for my father.
> Q. 30. Your father's name is—
> A. Dan Sampson.
> Q. 31. Did your father have a summer resort?
> A. Yes, a resort in northern Minnesota.
> Q. 32. Did you say Mr. Phillippi made this sign for your father?
> A. Yes, he did.
> Q. 33. Do you know when?
> A. Well, approximately, 1937. The reason I say that is I know he made transparent film, and I watched him apply this transparent film, and that was about the same time.
> Q. 34. Did you see him put this diagonal piece of transparent film on the side?
> A. Yes, he put it on only half of the sign to show how the half with the beads on would reflect or illuminate.
> Q. 35. Can you tell us more clearly just when he did that?
> A. Well, I am sure it was in 1937, because I know that is the time he made the film and it was at that time, at the same time he was making these signs, I saw him make them.
> * * * * * * *
> Q. 37. Can you further identify this Exhibit 4 and tell me a little more clearly as to your recollection of when he made it, the date?
> A. Well, as I said, it was at the time he made the transparent film and that was in 1937, because I signed his notes at that time when he made the film, and also, it was a little over a year after he had been working at Jeffry-McPherson, and he had come up to my dad's and he told him he was going to make some signs for him, and that was in the summer-time.
>
> *There was no cross-examination on this part of her testimony.* [Italics supplied here.]
>
> Elaine Hurley, who was a stenographer and bookkeeper for the Jeffry-McPherson Printing Company and who also helped in the shop at times, testified that she was so employed from December 1935 to December 1937 and that during that time Phillippi showed her a beaded decalcomania similar to Phillippi Exhibits 9A and 9B which had light reflecting beads, and that he showed her how it could be transferred. It is apparent from her testimony that she understood what decalcomanias were, and that she had helped make them.
>
> Charles Welty, testified that Phillippi told him about beaded monogram decalcomanias in July of 1937 at which time he showed him articles like Phillippi Exhibits 9A and 9B. Phillippi demonstrated how they worked by wetting them and sliding them off.
>
> Welty further testified that Phillippi showed him the beaded summer resort sign, Phillippi Exhibit 4, in the early spring of 1938 at which time he also showed him some transparent decalcomania material like Phillippi Exhibit 4A which he demonstrated by transferring to a colorful portion of a calendar with the result that the coloring was emphasized.
>
> The record shows that Phillippi was enthusiastic over the beaded decalcomanias but was financially unable to commercialize them himself or to file a patent application thereon. However, he was active in trying to interest someone to finance him and finally was successful in securing aid during the summer of 1939.
>
> It appears from the patents cited during the prosecution of the Phillippi application and from Phillippi's testimony that flexible backings covered with paint or varnish in which glass beads were embedded were old in the art prior to any date alleged by the parties herein. It also appears that decalcomanias were old and well known in the art. Under these circumstances and as the count is not limited to a road marker, it is believed that it is only necessary to establish that a beaded decal could be successfully transferred in order to constitute a reduction to practice of a decalcomania according to the issue herein.
>
> The limitation of "marker" is not deemed to be such as to limit the device to a highway or outdoor marker, although that appears to be the principal use to which the parties eventually put their devices; but merely limits the device to one which may be employed to attract attention or convey information. Obviously, the initial monograms and the summer resort sign of Phillippi respond to this requirement.
>
> It is argued that the testimony of Phillippi and his witnesses is based very much on recollection and is not supported by any written or documentary evidence.
>
> The law is well settled that oral testimony is competent, and we find nothing in the record to discredit the assertions of the witnesses as to what transpired and when.
>
> It is contended by Rodli, that whatever Phillippi may have done on May 15, 1936, with respect to the alleged transfer in Phillippi Exhibit 1 constituted neither a conception nor a reduction to practice of an operative loaded decal because Phillippi stated that his first attempt was to apply beads over a printed decalcomania but that he found this material was not flexible. This contention overlooks the fact that Phillippi further stated that on the same day he created a series of flexible beaded films of his own of which the initial M, Phillippi Exhibit 1, is allegedly one.
>
> We are of the opinion that the testimony of Phillippi and his corroboratory witnesses as outlined above, adequately establishes that the invention was reduced to practice not later than the early part of 1938 by both the initials and by the resort sign and that, although Phillippi did not file his application until long after that time, he never abandoned the invention. No unfavorable inference can be drawn from this long delay in filing which has been satisfactorily explained by Phillippi's financial condition.

[2][3] We deem it somewhat significant that Mrs. Phillippi was not cross-examined on that part of her testimony relating to Exhibits 1 and 4. She was a competent witness and we find nothing anywhere in the record, either circumstantial or direct, which would justify an assumption that she was not speaking truly. The exhibits obviously constituted a reduction to practice of the counts and, as we view it, if they were made at the times she said they were made Phillippi was entitled to those dates for reduction to practice.

With respect to the testimony of the witness Welty, referred to in the Board's decision, it is contended on behalf of Rodli that it is entitled to practically no weight, in part because he testified from recollection, but largely because he is alleged to have acquired a one-third interest in Phillippi's patent application. It appears from Welty's testimony that as early as 1937 Phillippi sought to obtain his aid in financing a patent application and showed him different devices which according to Welty's description of them apparently embodied the invention of the counts, but, seemingly, Welty declined to aid him until sometime in 1939, which was long subsequent to the period awarded Phillippi by the Board for reduction to practice. We can discern no reason for doubting the integrity of Welty as a witness.

It may be noted that the Board's findings of fact were direct findings based upon Phillippi's record—not upon interferences or speculations. Rodli's contentions before us consist almost wholly of inferences which it is insisted should be drawn because of the interest of Phillippi, his wife, and Welty in the outcome of the litigation.

Among other things, Rodli's counsel apparently seeks to have the court question the existence in May 1936 of the notebook in which Exhibit 1 was inserted. We find no reason for indulging any doubt in that regard.

[4] Since, as has been indicated, the sole issue here relates finally to the veracity of Phillippi and his corroborating witnesses and since we discern no reason for differing from the Board's conclusion in that regard, it is unnecessary to prolong this opinion by discussing in further detail the arguments and speculations put forward on Rodli's behalf, nor is it necessary to review Rodli's record.

The decision of the Board of Interference Examiners in interference No. 79,723 (appeal No. 5,095) is affirmed.

The decision of the Board of Interference Examiners in interference No. 79,724 (appeal No. 5,096) is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

KLIESRATH ET AL. *v.* KESLING

No. 5,065. Decided March 4, 1946. Petition for rehearing denied May 3, 1946

[154 F.(2d) 514; 69 USPQ 377]

1. INTERFERENCE—REDUCTION TO PRACTICE—TESTS.
   "It was not demonstrated that the device installed on the Dodge car was a practicable operative device for accomplishing the function for which it was designed. The record clearly shows that there was such noise and clashing of gears as to lend belief to the fact that great damage would result to the gears if such shifting device was employed. The fact that it was put on and taken off the car and adjusted 25 or 30 times without any curing of this defect and that it was given a bench test, the results of which were not stated, not only does not support the theory that the test showed a satisfactory performance but, in our judgment, negatives that conclusion."
2. SAME—SAME—SAME.
   "We think it is not a sufficient explanation to say in this proceeding that the said unsatisfactory results flowed from the fact that the Dodge car had no synchronizers connected with its shifting mechanism. There was no demonstration at any time during said tests that the device would work upon a car with proper synchronizers. If the parties, at the time they were adjusting and testing the device, had been of the opinion that the defect flowed from the lack of synchronizers and that the device was otherwise regarded as satisfactory, it seems reasonable to conclude that they would have tested it on a car which they thought was properly equipped for better performance."
3. SAME—COUNTS—CONSTRUCTION.
   Where the counts of the interference, copied by appellee in his reissue application from the patent to appellants, contained the same limitation as to "longitudinal movements" as claims allowed to appellee in the same application by the Court of Customs and Patent Appeals upon a previous ex parte appeal, *Held* that with respect to that limitation the counts would be construed in the same manner as the court had construed the claims, since if the counts were so interpreted they would distinguish from the prior art and read upon the disclosures of both parties.
4. SAME—SAME—SAME.
   "When the tribunals of the Patent Office interpret the counts of an interference in a certain manner for the purpose of rendering the counts patentable over the prior art this interpretation will be accepted by us in our consideration on appeal."
5. SAME—PRIORITY.
   "It follows that since Kliesrath et al. have failed to establish reduction to practice prior to the date for reduction to practice properly awarded to Kesling and the required diligence not having been shown, priority was properly awarded by the Board to the senior party, Kesling, and its decision so doing is affirmed."

APPEAL from the Patent Office. Affirmed.

Mr. Edwin S. Booth for Kliesrath et al.

Mr. Lawrence C. Kingsland and *Mr. Edmund C. Rogers* for Kesling.

BLAND, *J.*:

This is an appeal by the junior parties, Kliesrath and Sanford, hereinafter referred to as Kliesrath et al. or appellants, from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention to the senior party, Kesling, of counts 1 and 2 in an interference proceeding which involved Kliesrath et al. Patent No. 2,212,442, issued August 20, 1940, on an application, Serial No. 51,138, filed November 22, 1935, and Kesling's reissue application, Serial No. 246,454, filed December 17, 1938, for the reissue of Patent No. 2,069,526, which was granted February 2, 1937, upon an application filed July 20, 1935.

The counts involved are claims taken from the Kliesrath et al. Patent No. 2,212,442.

Count 1 is illustrative and reads:

1. The combination with a selective transmission mechanism having a plurality of spaced shifter bars movable longitudinally to establish different gear relations, of a shifter member movable into engagement with one or another of said bars, means operatively connected with said shifter means for so moving the same, means including a double-acting fluid pressure motor operatively connected with said shifter member for moving the same together with the shifter bar selected thereby in opposite directions, means including valve mechanism for controlling and directing the flow of fluid power to said motor, means for controlling the operation of the first named means, and means for actuating the two last named means in order to control the energization of said motor and to actuate the first named means including *a control lever movable laterally for actuating said first mentioned means and movable longitudinally for controlling said valve mechanism.* [Italics ours.]

Both parties took testimony. The evidence of Kliesrath et al. was submitted for the purpose of establishing conception of the invention in 1931, reduction to practice in the summer of 1932, and continuing development work leading to "commercial exploitation of the invention" in 1934.

Kesling's testimony was directed towards establishing completion of his invention as of the filing date of his parent application, Serial No. 683,977, filed on August 7, 1933, upon which application Patent No. 2,034,400 was issued. This is the only date relied upon by Kesling and that he is entitled to this date is not here in controversy.

As will later herein appear, the invention involved and the issues pertaining thereto are of such character as not to require a detailed description of the devices of the parties. It is sufficient to state that the invention relates to a mechanism for providing power to assist in the shifting of the gears of an automobile transmission. The device, generally speaking, and particularly with reference to the functions performed by it, is well understood in the art as being one which is designed to eliminate floor board and front seat space waste by placing the instrument which initiates the shifting of the gears to the dashboard rather than elsewhere. After the initial operation of the dashboard shifting mechanism has taken place the automatic auxiliary power device operates to shift the gears.

It is the contention of Kliesrath et al. that the record discloses that they have proven satisfactorily that they had successfully reduced to practice the invention defined by the counts as early as 1932 by the installation on a Dodge car owned by Harold W. Price of a device which completely responds to the counts involved. The date of this alleged reduction to practice being prior to any date to which Kesling is entitled, Kliesrath et al. argue that no further consideration need be given to other record facts.

It is also contended by Kliesrath et al. that if the view of the Board as to their said earlier reduction to practice is accepted subsequent installations of a somewhat different device on other cars amounted to a reduction to practice in the event the counts are construed in accordance with appellants' interpretation of their meaning.

A further contention is made by Kliesrath et al. that since it is admitted that the device installed on the Dodge car in 1932 fully responds to the terms of the involved counts appellants must be given a conception date prior to 1932 and that the subsequent installations and other acts must be held to be proper evidence of diligence during the critical period so as to give the first conceiver the award of priority even though the last to reduce to practice.

The facts are not in serious dispute although there is considerable argument between the parties as to the effect to be given certain facts proven and spirited contentions with reference to the law applicable to such facts.

On the first question presented as to whether or not the earlier installation of the Kliesrath et al. device on the Dodge car amounted in law to reduction to practice the Board summed up the facts and held, for reasons stated, that appellants had not proven a reduction to practice by the 1932 installation. It said:

Kliesrath and Sanford rely for priority on installations of gear shifting devices in several different cars. The first of these installations which allegedly constitutes a reduction to practice of the invention in issue was made in July 1932 on the Dodge car owned by Harold Price. It is not denied by the party Kesling that the Dodge installation was made in July 1932, nor that the device so installed responded to the requirements of the counts in issue. It is, however, strenuously urged (1) that the record does not show that the device so installed was the result of a joint conception of Kliesrath and Sanford and (2) that the device was not satisfactory and thus fails to establish a reduction to practice of the subject matter in issue.

The first contention seems to be based on the idea that the Dodge installation was the invention of Harold Price and was not the invention of Kliesrath and Sanford. This raises the question of third party inventorship. It was held in *Tepas et al. v. Geldhof*, 521 O. G. 528, 1940 C. D. 603, 27 C. C. P. A. 1265, 112 F.(2d) 800, that it is well-settled law that in an interference proceeding, a party cannot successfully contend that the invention is not that of his adversary, but that of a third party.

Several witnesses testified concerning the Dodge installation; from their testimony it is clear that the gear shifting arrangement did shift the gears but that this was accomplished with a considerable clashing of gears. It also appears that the mechanism remained on the car for approximately two weeks during which period it was on and off the car about 25 or 30 times for adjustment. After this it was taken off the car and tested on the test bench. The nature of the bench tests is not given in any great detail and the results obtained therefrom are not stated.

The clashing of the gears is admittedly an unsatisfactory operating condition which would likely result in damage to the mechanism; but it was stated that the Dodge normally shifted hard as it was not provided with synchronizing means in the transmission.

We are of the opinion that the Dodge tests are inconclusive in establishing satisfactory operation of the device in issue. Certainly there was no demonstration that the device was a practical operative device for accomplishing the function for which it was designed. Had it been satisfactory or capable of being made satisfactory by adjustment, it seems that after 25 or 30 adjustments it should have been in such condition that it would shift in a more satisfactory manner than it did. Furthermore, the fact that it was only used for several weeks tends to show that it was not satisfactory.

It is asserted that the noise was due to the fact that the transmission on the Dodge had no synchronizers and that the noise was not caused by defective operation of the shifting mechanism. The best proof of this assertion would have been a trial on a car that had such a transmission. We do not believe that the Dodge tests constituted a reduction to practice.

[1] The facts relating to the Dodge installation are for our purposes sufficiently stated in the above-quoted decision. We agree with the conclusion reached by the Board on this phase of the case that it was not demonstrated that the device installed on the Dodge car was a practicable operative device for accomplishing the function for which it was designed. The record clearly shows that there was such noise and clashing of gears as to lend belief to the fact that great damage would result to the gears if such shifting device was employed. The fact that it was put on and taken off the car and adjusted 25 or 30 times without any curing of this defect and that it was given a bench test, the results of which were not stated, not only does not support the theory that the test showed a satisfactory performance but, in our judgment, negatives that conclusion.

[2] Agreeable to the conclusion of the Board we think it is not a sufficient explanation to say in this proceeding that the said unsatisfactory results flowed from the fact that the Dodge car had no synchronizers connected with its shifting mechanism. There was no demonstration at any time during said tests that the device would work upon a car with proper synchronizers. If the parties, at the time they were adjusting and testing the device, had been of the opinion that the defect flowed from the lack of synchronizers and that the device was otherwise regarded as satisfactory, it seems reasonable to conclude that they would have tested it on a car which they thought was properly equipped for better performance.

We are clearly of the view that the Board did not err in its holding that appellants' tests with respect to the Dodge installation failed to meet the requirements of the law as to reduction to practice, and while on this phase of the case it is proper to remark that activities subsequent to the Dodge test, hereinafter referred to, tend to support this conclusion.

[3] After the Dodge test, certain tests were made on four different kinds of cars, a Studebaker, a Plymouth, a Buick and a Hudson, but these tests were made with devices which admittedly differed from the one tested on the Dodge car. The device used in testing on the Studebaker, Plymouth and Buick cars differed from the device associated with the Hudson car but concededly not in respects material here. On the latter the device employed was described as "Electric Hand," and commercial production of the "Electric Hand" in connection with the Hudson car was shown by the record. The Board held that the devices used on these other cars did not respond to the counts when construed in the light of the interpretation given by this court to claims similar to the counts involved here with respect to the term "longitudinal movements" in *In re Kesling*, 29 C. C. P. A. (Patents) 786, 124 F.(2d) 193, 52 USPQ 104, 538 O. G. 505.

It is conceded by everyone connected with the case that if the limitation in the counts as to longitudinal movements is given the interpretation this court gave it in the Kesling case the installations on the four cars made subsequent to the Dodge test did not amount to reduction to practice, since the counts would not read on the device or devices employed in those installations and tests. On this phase of the case it is the contention of the appellants that the court's holding as to the proper interpretation of the limitation relating to longitudinal movements of the shifting device is not the proper interpretation to give to the involved counts since they were copied from the Kliesrath et al. patent, it being urged that the well-settled law is that in patent interference practice, where the question of interpretation of the counts is involved, the courts will give them as broad a construction as their language will reasonably permit, citing *Hagen v. Cords*, 24 C. C. P. A. (Patents) 1128, 88 F.(2d) 998, 33 USPQ 230, 484 O. G. 966, and that where there is ambiguity the meaning as shown by the specifications of the patent from which the counts were taken must be applied.

It is urged by Kliesrath et al. that if the interpretation which was held improper in the Kesling case is applied to the counts in the instant case as far as appellants' patent specifications are concerned then the installations in the four last-named cars would amount to reduction to practice. This fact is not disputed by the appellee or by the tribunals below.

On this phase of the case the Board said:

It is urged by Kliesrath and Sanford that the counts in issue must be broadly interpreted as to them, so that the language *"movable longitudinally"* of count 1 or *"longitudinal movements"* of count 2 will mean movement longitudinal of the axis of the car; and yet be narrowly construed as to Kesling as was done by the Court. [Italics added.]

It is difficult to see how we could construe the language of the counts broadly as to one party and narrowly as to the other. As the structures of the two parties are substantially identical in the respect pointed out above, and as the construction put upon "longitudinal movements" by the court is equally applicable to the structure of both parties, we believe that the meaning which we give to the language of the counts should and must be in harmony with that given by the court, even though the counts in issue did not originate in the Kesling case. Thus, one of the distinguishing elements of the counts in issue is that the operating means is a mechanical device that is rocked about its axis to effect a cross shift or shift bar selection, and moved longitudinally of its axis to effect the gear shift.

This being so, only the Dodge device is pertinent here. The Studebaker device utilized a hand-operating member which is pivoted in a manner similar to that shown by the Moorhouse patent and is thus not pertinent. The Plymouth and Buick installations are not pertinent as in each, the cross shift results from a longitudinal movement of the selector, and the rear shift from a lateral or rocking movement. This is the exact opposite to the structure defined by the counts.

It is not clear just how the hand-operating member of the Hudson "Electric Hand" is mounted, but it appears to follow the conventional pattern such as shown by Moorhouse, but only on a much reduced scale. In any event Kliesrath and Sanford have failed to establish that it has a movement such as required by the counts.

The correctness of this court's holding in the Kesling case is not questioned here. In that case Kesling's claims involving the limitation "longitudinal movements," with which we are here concerned, had been rejected by the Patent Office on the ground that if the claims were broadly construed, as they construed them, they were met by the prior art. Kesling contended that the limitation "longitudinal movements" should be construed to mean "longitudinal with respect to the operating means" rather than with respect to the axis of the vehicle. We agreed with Kesling in his interpretation in that case and said:

It is appellant's contention that the Examiner and the Board misinterpreted the element above described, found in claims 21, 30 and 49. It is his contention that the longitudinal movements embraced in said claims clearly mean that the operating means is movable longitudinally with respect to itself, and not with respect to some other part or element not referred to in the claims.

We are in agreement with this contention. Unless the words "longitudinal movements" in the claims mean longitudinal with respect to the operating means, they would have no meaning at all without the aid of the specification, for any movement of such means would be longitudinal with respect to some part of the vehicle.

Unless the meaning contended for by appellant be given to said words, they are ambiguous because not related to any point or plane, and in such case it is proper to resort to appellant's specification to ascertain the proper construction. *In re Phelps et al.*, 18 C. C. P. A. (Patents) 1086, 47 F.(2d) 387.

An examination of appellant's specification clearly shows that the longitudinal movements referred to in the claims are movements longitudinal with respect to the axis of the operating means, and in no other way could appellant's structure accomplish the result secured by him.

As before stated, it is the position of Kliesrath et al. that in view of the rule that counts for interference purposes must be given the broadest interpretation the language will readily permit our construction of the identical language here involved must be ignored. It might also be added here that we are confronted with numerous holdings of this and other courts to the effect that in interference proceedings involving a patent "claims once granted must be given the broadest interpretation that their terms will reasonably permit." The language quoted is from this court's holding in *Thompson* v. *Pettis*, 18 C. C. P. A. (Patents) 755, 44 F.(2d) 420, 7 USPQ 228, 403 O. G. 6. This court held, in *Wilcox* v. *Danner*, 19 C. C. P. A. (Patents) 802, 53 F.(2d) 711, 12 USPQ 16, 417 O. G. 3, that interference counts must be broadly construed and if such interpretation would result in double patenting because of issued patent to one party it is a matter for ex parte consideration by the Patent Office.

It will be noticed that in each of the last above-cited cases no such situation prevailed as that at bar.

In the instant case, as was pointed out by the Examiner, if the claims are interpreted in accordance with the contention of Kliesrath et al. the counts would read upon the Moorhouse patent and would therefore not be patentable, but construing them as the court did in the Kesling case the claims distinguish from Moorhouse and since they both read upon the disclosures of both parties when so construed and since this is an interpretation given them by the tribunals below in the instant action to avoid the prior art, we think that interpretation is the proper one for us to consider in determining the issues presented in this appeal.

Concerning the interpretation and with respect to the Moorhouse patent, the Examiner said:

As to the second issue raised by party Kliesrath et al., again it is clear from the discussion by the court in the Kesling case that the terms "laterally" and "longitudinally" refer to movements of the *control lever with respect to itself* and since this is not true of the lever 27 of Moorhouse, it must be held that counts 1 and 2 are not readable on Moorhouse and are, therefore, patentable to Kesling. [Italics quoted.]

To summarize, the decision of the Examiner denying the motion as applied to counts 1 and 2 must be adhered to, as the counts are believed readable on the party Kesling and are not anticipated by the patent to Moorhouse. Since the counts are patentable to party Kesling, an interference exists in fact.

This view of the Examiner was followed by the Board.

[4] Moreover, we think the rule laid down in *Kaufman II* v. *Etten et al.*, 25 C. C. P. A. (Patents) 1127, 97 F.(2d) 134, 37 USPQ 712, 496 O. G. 858, and followed in a number of other cases, is applicable here, which rule is to the effect that when the tribunals of the Patent Office interpret the counts of an interference in a certain manner for the purpose of rendering the counts patentable over the prior art this interpretation will be accepted by us in our consideration on appeal.

It follows from the foregoing that since the claims must be interpreted in accordance with the holding in the Kesling case the tests of the devices on the four last-mentioned cars do not amount to a reduction to practice.

Our holding here as to the testing of the devices on the four last-named cars, which are different from the device used on the Dodge car and which do not, under our construction of the counts, respond to the elements of the same, also compels the conclusion that all acts concerning said tests are not to be considered in connection with the issue of continuing diligence pressed by appellants.

[5] It follows that since Kliesrath et al. have failed to establish reduction to practice prior to the date for reduction to practice properly awarded to Kesling and the required diligence not having been shown, priority was properly awarded by the Board to the senior party, Kesling, and its decision so doing is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GESSLER ET AL.

No. 5,114. Decided March 6, 1946

[154 F.(2d) 172; 69 USPQ 123]

PATENTABILITY—DECORATIVE MATERIALS.

Claims in appellants' application relating to improvements in decorative materials and a method of making such materials *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Byerly, Watson & Simonds (*Mr. Richard L. Underwood* of counsel) for Gessler et al.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 1, 2, 10, 11, and 12) in appellants' application for a patent for an alleged invention relating to improvements in decorative materials and a method of making such materials.

Claims 2 and 11 are illustrative of the appealed claims. They read:

2. A method of reproducing the visual effect of a decorative material having a light-dispersing surface, which comprises the steps of roughening one surface of a thin sheet of transparent material to give it the light-reflecting characteristics of the surface of the original material, printing a color reproduction of the original material on the other surface of the sheet, and securing the printed surface of the sheet to a carrier.

11. A reproduction of a decorative material, consisting of a fibrous carrier and a thin sheet of transparent material adherent to one surface of the carrier and having an inner smooth surface bearing a reproduction of the design and color of the original decorative material and an outer surface roughened to reproduce the surface characteristics of the original decorative material, the thinness of the sheet being of the order of magnitude of the resolving power of the eye so that the roughened outer surface of the sheet does not blur the design on the inner surface of the sheet.

The reference is: Winter, 1,474,698, November 20, 1923.

Appellants state in their application that by their method they produce inexpensive reproductions of decorative materials, such, for example, as floor coverings, upholstery, wall coverings, hangings, etc.; that they accomplish their purpose by printing a colored reproduction of the original material on one side of a thin sheet of transparent material, such as cellulose acetate, and reproducing the surface characteristics of the original material on the other side of the sheet; that the surface characteristics of the material are reproduced by roughening the surface "to such extent as is necessary to give it the same dispersive effect in reflecting light as the surface of the original material"; and that "Such roughening has the effect of making the sheet translucent rather than transparent."

According to appellants' specification, the sheet of transparent material is mounted "on any convenient carrier, such as a piece of fabric, with its printed side against the carrier, so that its roughened side is exposed."

Appellants further state in their application that—

The success of the method depends upon making the thickness of the sheet between its printed surface and its roughened surface of the same order as the finest lines or dots of the design. *It is best to make the thickness of the order* of magnitude of the resolving power of the human eye, which is between 1/100 and 1/1000 of an inch. Under these circumstances, the roughening of the surface of one side of the sheet does not prevent the eye from clearly seeing the design through the sheet. [Italics not quoted.]

Appellants also state in their application, however, that, although the "decorative material may accurately reproduce the appearance of some known decorative material, it is not essential that it should do so," and that, in accordance with their invention,

a decorative material accurately reproducing the appearance of old, grained, wood paneling having a satin-like surface is made as follows:

A sheet of transparent material, such as cellulose acetate, *about 3/1000 of an inch in thickness* is roughened on one surface so as to give it the appearance of ground glass. [Italics ours.]

The patent to Winter relates to artistic pictures, and, according to the patentee, "comprises a light reflecting or mirror-like reflector used as a backing for a picture printed on Celluloid foil."

As in appellants' method, the patentee's picture is printed on the polished side of transparent material, such as a Celluloid film, which is mounted on a reflector sheet, for example, a glass mirror, polished sheet metal, sheet silver, silver paper, mirror foil, or a metallic foil, such as tin foil, the exposed or opposite side of the foil is roughened or matted, as the patentee states, "in any manner."

The patentee further states that—

Such a combination produces pictures of a new and peculiar effect. The color tones are soft and diffused and the effect is very pleasing.

* * * * * * * *

Very beautiful, soft nuances and shades are obtained with colored half-tone prints, the colors fully retaining their luminous power and transparency.

After stating that the reference disclosed a decorative article comprising a carrier, a Celluloid film, a polished surface and a printed colored picture thereon, the printed side being in contact with the carrier or backing sheet and the outer surface being roughened or matted, and that the article disclosed in the reference was similar "in organization to the article produced by applicant," the Primary Examiner held that it was "patentably immaterial whether the roughened surface or the printed matter is a reproduction of an original decorative material," and that the claims here on appeal were of substantially the same scope and were substantially met by the disclosure in the Winter patent.

The Board of Appeals concurred in the views expressed by the Primary Examiner, stating that, although counsel for appellants argued that the patentee Winter was not attempting to reproduce the visual effect of any decorative material and does not disclose how it could be done, it was of opinion that it was "patentably immaterial what kind of design or picture applicant places on the smooth side of the transparent sheet. The cooperative action of the opposite matt surface is the same, and is taught by Winter. A patent can not be granted for each known kind of ornamentation one might wish to substitute for the printing," or picture, in the patentee's disclosure.

In affirming the Examiner's decision rejecting the claims on appeal, the Board called attention to the fact that the Celluloid film in the reference patent was a thin sheet of material.

It is conceded here by counsel for appellants that the sheet of Celluloid film disclosed in the Winter patent is thin. Counsel argue, however, that the resemblance existing between the Winter disclosure and appellants' decorative material is purely accidental; that the patentee had no conception of "reproducing the visual appearance of a material by copying the two elements of the visual appearance separately and placing them within the resolving power of the eye," that is, on a sheet of transparent material having a thickness of from 1/100 to 1/1000 of an inch, as called for by appealed claim 11; that the teaching of the patent to Winter would produce a picture, the design of which would be blurred; that the patentee had for his purpose the softening of colors and making them blend "instead of having clear lines of demarcation"; that because the patentee states that his combination produces pictures of a new and peculiar effect, and that the color tones are soft and diffused, his combination could not produce the exact appearance of appellants' decorative material; and that the patentee does not disclose the "thinness of the sheet being of the order of magnitude of the resolving power of the eye so that the roughened outer surface of the sheet does not blur the design on the inner surface of the sheet," as called for by quoted claim 11.

As hereinbefore noted, appellants state in their application that it is "best to make the thickness of the order of magnitude of the resolving power of the human eye, which is between 1/100 and 1/1000 of an inch," and that, although the "new decorative material may accurately reproduce the appearance of some known decorative material, it is not essential that it should do so." Furthermore, appellants state in their application that in carrying out their method they use a sheet of transparent material of about 3/1000 of an inch in thickness, and that by the use of such transparent material they reproduce the surface characteristics of the original material. It is obvious, therefore, that in appellants' method they may use a transparent material ranging from 1/100 to 3/1000 of an inch in thickness. Accordingly, the use of a material ranging in thickness from 1/100 to 1/1000 of an inch, which, appellants state in their application, is in the order of magnitude of the resolving power of the human eye, is not critical. Furthermore, there is nothing in the patent to Winter, as we view it, which can properly be understood as indicating that the design of the picture is blurred or that the thinness of the Celluloid film used by the patentee is not of the order of that disclosed in appellants' application and claimed in claim 11.

We concur, therefore, in the views expressed by the tribunals of the Patent Office, that the claims on appeal are not patentable in view of the disclosure in the patent to Winter.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE TONE ET AL.

No. 5,120. Decided March 6, 1946

[154 F.(2d) 179; 69 USPQ 130]

PATENTABILITY—ABRASIVE ARTICLE.

Certain claims to an abrasive article and to the method of making the same *Held* patentable over the prior art.

APPEAL from the Patent Office. Reversed.

Mr. George E. Stebbins and *Mr. Donald A. Gardiner* for Tone et al.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.:*

Appellants have appealed from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting claims 13 to 21 inclusive of an application for a patent for "Manufacture of Granular Coated Products" as unpatentable over the prior art. The Examiner rejected all of the claims, 10 to 21 inclusive, as unpatentable in view of the prior art, and additionally claims 13, 14 and 18 as indefinite. Upon appeal the Board reversed the latter rejection, but otherwise affirmed the decision of the Examiner. On rehearing the Board held claims 10 to 12, inclusive, allowable.

Appellants have withdrawn the appeal here with respect to claims 13 and 17, and therefore the appeal as to those claims will be dismissed.

Claims 14, 16 and 18 are illustrative of the subject matter and read as follows:

14. A coated abrasive article of the nature of sandpaper comprising a backing having a layer of grit bonded thereto by a tough, brittle, substantially inflexible bond consisting essentially of a heat-hardened substantially unplasticized phenol-aldehyde condensation product resin, the backing being substantially unpenetrated by and unmodified by the bond, and the bond having the tensile strength, water-resistance and hardness characteristic of such resins when cured for a number of hours at a temperature of at least 250° F.

16. In the method of making a coated abrasive article comprising a supporting backing and an abrasive surface of grits adherently united to a side thereof by a heat-hardened bond, the steps which comprise applying a coating of liquid phenolic condensation product resin to a backing, applying a coating of abrasive grains to the resin coated backing, drying the liquid resin by heating at temperatures not substantially in excess of 130° F., and thereafter baking the article for at least six hours at temperatures of at least 250° F. to heat-harden the bond.

18. An abrasive disc having a central arbor hole for mounting and comprising a somewhat flexible backing having sufficient rigidity and strength for mounting by means of the arbor hole and having a substantially single layer of abrasive grain applied to the backing, and a grain-bonding coat on the backing of an unplasticized heat-hardened phenol-aldehyde resin having the strength and hardness characteristic of such resins when heat-treated for six hours at 300° F., whereby the grain is rendered very resistant to removal by the grinding stresses encountered in service.

The prior art cited is: Hannan, 915,430, March 16, 1909; Graft, 1,217,593, February 27, 1917; Martin, 1,626,246, April 26, 1927; Carlton, 1,775,631, September 16, 1930.

The application, Serial No. 354,596, filed July 15, 1940, is a continuation of a former application, Serial No. 79,549, filed May 13, 1936, upon which Patent No. 2,252,587 was granted August 12, 1941. The claims of the patent relate to pretreatment of abrasive grains as applied to the backing of an abrasive article, while those of the present application relate to the resin bond character of the backing of an abrasive article and to the method of applying and curing the bond.

The invention concerns a process wherein synthetic resins such as phenol-aldehydes are used in manufacturing sandpaper and the like and abrasive disks, in which the adhesive is rigid and of great strength. The resin as applied and cured in the process grips the abrading material so rigidly and tenaciously that the grains are not bent backwardly when the abrading article operates under pressure against the workpiece, and the binder as applied and cured does not penetrate the paper or fiber backing of the abrading article. The object of appellants is to produce an abrading article the backing of which will not crack even though the abrading face is hard and brittle. Abrasive articles made in accordance with their process are claimed to have a much longer working life than those of the prior art, wherein glue is said to be used in binding abrasive material to the backing.

Unplasticized phenol-aldehyde resin, commonly known as "Bakelite," is the material used as the binder. That substance when first formed is thin and liquid, and upon the application of heat becomes more viscous. By continuing the heat the binder becomes a solid, fusible, and soluble in such solvents as alcohol and acetone. Further heating converts it to a stage where it may be softened by heating but is infusible. The infusible resin is then heated at a temperature not less than 250° F. for several hours, when it becomes "infusible, insoluble, hard, tough, inflexible and of great tensile strength." Appellants' process necessitates the gradual drying of the liquid resin as first applied, with the layer of abrasive therein, at a temperature of about 130° F. and subsequently the complete curing at a temperature of not less than 250° F. Pulverized flint may be added to the resin in liquid form to increase viscosity.

It will not be necessary to deal with the article and method claims separately. Claims 14, 15 and 16 relate to an abrasive article in sheet form and to a method of manufacturing the same. The rest of the claims define abrasive disks and a method for making them.

The Carlton patent relates to forms of abrasives such as sandpaper. It discloses synthetic resins, particularly phenol-aldehyde condensation products, as a binder for maintaining abrasive grains to a limp backing. After the mixture of abrasive and resin in liquid form is applied to a backing the article is cured by heating at a temperature of about 140° F. to 180° F. "for a period of time, the duration of which depends on the degree of heat employed and the end point desired." The patent is directed particularly to the production of a flexible waterproof abrasive paper. The backing of the article is made waterproof by reason of being penetrated by the binder "to a point which approximates the opposite surface of the sheet, but preferably falls short of actual exudation of such vehicle and of resin particles to any excessive extent on such opposite surface." The patentee stresses the flexibility of his product, and particularly its waterproof character, as evidenced by his statement that his binder may be applied as an auxiliary waterproofing coating to the surface of his article opposite the grit-carrying portion. The process provides for a single curing of the article at a temperature from about 140° F. to 180° F.

The Martin patent (the patentee thereof being one of the appellants here) relates to articles of bonded granular material and a process for the manufacture thereof. The article is described as particularly referring to abrasive disks designed for grinding flat surfaces on metals and other materials. The process of the patent comprises the mixing of abrasive grains with synthetic resin such as phenol resin, called in the patent by the trade name "redmanol." The mix is then placed in a mold under a pressure of approximately 900 pounds to the square inch. When molded it is baked in an oven for 15 hours at a temperature of 350° F. A cloth backing is then stuck on one face of the plate-like disk by oxychlorine cement, which sets without heat, and serves as a surface to be fastened by means of glue to the face plate upon which the disk is rotated in service.

The Hannan and Graft references were cited only to show that an abrasive article in the form of a disk with a central arbor hole was not new.

Claims 14, 15 and 16 were rejected as defining nothing over the patent to Carlton in view of the patent to Martin, it being held that there was no invention in finally curing the Carlton product "in the manner disclosed by Martin in regard to time and temperature of cure."

Claims 18 to 21, inclusive, were rejected as unpatentable over the Carlton patent in view of the Martin patent, the Graft and the Hannan patents. It was held there was no invention in changing the sheet of the Carlton patent to disk form as disclosed by Graft or Hannan, and in curing the bond of Carlton's product at the temperature disclosed in the Martin patent.

Appellants do not claim to be the first to employ phenolaldehyde resins as a binder for abrasive articles in any form. Their contention is that the rejected claims are patentable over the combination of the Carlton and Martin patents.

In our opinion claim 14 is distinguished from the Carlton reference in that the limitation in the claim providing for "the backing being substantially unpenetrated by and unmodified by the bond" finds no disclosure in the patent. If the bond defined in claim 14 penetrated the backing of the sandpaper, the entire product would be brittle and would necessarily crack when flexed. Carlton sought to keep

his product flexible as well as waterproof, and for that reason cured at a temperature of about 140° F. to 180° F. Therefore the resin of the patent is not the "inflexible bond consisting essentially of a heat-hardened substantially unplasticized phenol-aldehyde condensation product," cured for a number of hours at 250° F. In our opinion claim 14 is not met by the disclosure of the Carlton patent in view of the Martin patent. If the Carlton article were cured at Martin's temperature of 350° F. for 15 hours, the resin would reach the hard, inflexible state, thus rendering the resin-impregnated backing of Carlton brittle and useless. This would defeat the object of the Carlton patent. It is stated in the Martin patent that the temperature employed would destroy disk backings. Therefore the cloth backing is not applied until his molded mass has been cured and then cooled.

Claims 15 and 16 are both method claims, and clearly distinguish from the curing cycle disclosed in the Carlton and the Martin patents. The patent to Carlton discloses no preliminary heating or drying, but does disclose a process in which the binder penetrates the backing. It does not disclose a final heating at the temperature defined in those claims of 250° F., which is necessary to transform the resin into a tough, hard, inflexible state. This cannot be accomplished by lower temperatures. The Martin patent does not disclose the curing cycle of claims 15 and 16. In the process of that patent, the abrasive mix is molded and afterward baked for 15 hours at a temperature of about 350° F. We cannot see how a combination of those patents would parallel the process defined in those claims.

Claims 18, 19, 20 and 21 were likewise rejected on the patent to Carlton in view of the patent to Martin. Those claims define abrasive disks and methods of manufacturing them. As heretofore indicated, the patent to Carlton is concerned with flexible waterproof sandpaper. This surely could not be used as an abrasive disk. The Martin patent does not disclose the "single layer of abrasive grain applied to the backing" defined in those claims, but is rather more of a rigid multi-layered molded abrasive, fastened by means of glue to the face plate of a grinding machine, and is therefore of an entirely different character from the disk defined by appellants.

In our opinion claim 18 is distinguishable from the combination of those patents, for the further reason that the heat treatment is described in the claim as at a temperature of 300° F. for six hours, which is higher than the temperature disclosed by Carlton, and lower than that of Martin. In our opinion this is critical.

Claims 19 and 20 are directed to a method of making abrasive disks and call for the use of either a heat-hardenable synthetic resinous material or a phenol-aldehyde resin. This is common to all the method claims, which define a curing cycle of preliminary drying at a temperature of at least 250° F., and therefore in our opinion those claims are patentable over the references for the same reasons as claims 15 and 16.

Claim 21 contains a limitation, "the cellulosic backing having a substantial portion of its thickness unpenetrated by and unmodified by said resinous bond." We have heretofore pointed out that in the Carlton patent the backing is impregnated with resinous material in order to make his product waterproof, which differs radically from the recited limitation. Furthermore, the sandpaper of Carlton must have a flexible resinous bond, while the bond of the claim must be hard and brittle.

We are unable to see how the multi-layered molded disk of Martin could possibly be combined with the Carlton product to result in anything comparable to the product of appellants.

It was stated by the Board that in the process of the Carlton patent the use of the binder is not limited to cases where the backing is "fully penetrated and saturated." The only backing materials shown in the Carlton patent are paper or cloth, both of which are penetrable, and if the patentee had in mind any non-penetrable backing he did not disclose it. Furthermore, unless the backing material of the Carlton device is penetrable he would defeat the very purpose of his process and product, in that the resin binder used by him is in liquid form, its heating is stopped before the resin becomes brittle, and his invention is directed to the production of a flexible, waterproof sandpaper.

The appeal as to claims 13 and 17 is dismissed, and the decision of the Board of Appeals as to claims 14 to 16, inclusive, and 18 to 21, inclusive, is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

MAGITEX COMPANY, INC.

v.

JOHN HUDSON MOORE, INC.

No. 5,121. Decided March 6, 1946

[154 F.(2d) 177; 69 USPQ 133]

1. TRADE-MARKS—CONFUSING SIMILARITY—COMPARISON.
   "The ordinary person in making a purchase of such an article as after shaving lotion is not likely to remember, nor is he bound to look for and analyze, the details of the respective marks and labels of competing vendors, even if he should happen to know as a matter of fact that there are competing vendors. It may be noted also that under modern methods of merchandising a purchaser of the goods may frequently have no opportunity to make such an examination and comparison."
2. SAME—MEANING OF TERM.
   The meaning of "Sportsman" as used in appellee's trade-mark as "one who practices the sports of the field, especially hunting or fishing" *Held* positively established by the drawing and specimen showing "the distinctive figure of a mallard duck rising on the wing from a marsh or swamp extending into the background."
3. SAME—DESCRIPTIVENESS.
   In appellee's registered trade-mark "Sportsman," for after shaving lotion, hair lotion, and talcum powder, and appellant's mark "Huntsman," for after shaving lotion, the common syllable "man" *Held* not descriptive of the goods.

4. SAME—PRECEDENTS.
   "Appellant in support of its position here devotes several pages of its brief to the citation of decisions of the court in litigation involving other trade-marks. The citation of such cases is of little value, however, in an opposition proceeding for the reason that each case must rest upon its own distinctive facts."
5. SAME—CONFUSING SIMILARITY.
   The respective marks, "Sportsman" and "Huntsman," considered as a whole, *Held* so nearly to resemble each other in sound, meaning, and appearance as to be likely to cause confusion in the mind of the public as to the origin of the goods when concurrently used on goods of the same descriptive properties.

APPEAL from the Patent Office. Affirmed.

Mr. M. E. Jones for Magitex Company, Inc.

Messrs. Jones & Roe (*Mr. Edward G. Roe* of counsel) for John Hudson Moore, Inc.

O'CONNELL, *J.*:

This is an appeal from the decision of the Commissioner of Patents, acting through the First Assistant, 62 USPQ 170, affirming the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of appellee to the application of appellant filed October 21, 1942, for registration of the word "Huntsman," continuously used by appellant since July 1, 1942, as a trade-mark for after shaving lotion.

In its notice of opposition appellee relies upon its ownership of the trade-mark "Sportsman" registered on December 23, 1941, for after shaving lotion, hair lotion, and talcum powder.

The opposition is based upon that proviso to section 5 of the Trade-Mark Act of February 20, 1905, which states "That trade-marks which * * * so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered." 15 U. S. C. sec. 85(*b*).

The goods are identical in part and it is not here disputed that the merchandise is of the same descriptive properties or that ownership and priority of use of appellee's trade-mark reside in appellee.

The sole point to be determined therefore is whether the contested marks when concurrently used by the parties on identical merchandise or merchandise of the same descriptive properties so nearly resemble each other as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers as to the origin of the goods.

Appellant contends that each of the marks ends in the identical word "MAN," being a part of the final letters "TSMAN"; and that—

> * * * Said "MAN" has no trade-mark significance of value, and is descriptive as the goods for both parties are used only by men. This leaves for comparison "SPORTS" or "SPORT" of opposer-appellee, and "HUNTS" or "HUNT" of applicant-appellant.

[1] It is a matter of common knowledge that the ordinary person in making a purchase of such an article as after shaving lotion is not likely to remember, nor is he bound to look for and analyze, the details of the respective marks and labels of competing vendors, even if he should happen to know as a matter of fact that there are competing vendors. It may be noted also that under modern methods of merchandising a purchaser of the goods may frequently have no opportunity to make such an examination and comparison.

Before the tribunals of the Patent Office the contested words were considered as a whole and it was correctly pointed out by the Examiner of Trade-Mark Interferences that the words "Huntsman" and "Sportsman," because of the identity in their last five letters, have certain similarities in sound and appearance. Furthermore, Webster's International Dictionary (1939) was correctly quoted by the Examiner to define "sportsman" as "one who practices the sports of the field, especially hunting or fishing"; and Funk & Wagnalls New Standard Dictionary (1930) was also quoted in defining "sportsman" as "a person who engages in field sports; also a hunter of big game."

Appellant urges, among other things, that both the Examiner and the Commissioner in utilizing this "restricted definition" in the case at bar failed to evaluate the marks in their true atmosphere and environment. Appellant points out that the word "SPORT" or "SPORTS" forms the dominant part of appellee's mark, and "one can select from many definitions, perhaps fifty or more, found in columns of perhaps four, six or seven inches, approximately, in depth, and found in Funk & Wagnalls' Company Dictionary, * * * as well as in Webster's New International Dictionary * * *." Appellant then proceeds to cite other dictionary definitions to show different meanings of the word "sportsman."

[2] The meanings attributed to the contested words by the tribunals of the Patent Office are the generally accepted definitions of the words as they are used here. If there is any doubt as to the meaning of the word "Sportsman" as it is used in appellee's mark, however, its meaning is positively established by the interpretation of the word as defined by appellee.

The accompanying drawing and specimen of appellee's mark, as actually used upon its goods, graphically depicts on the face of the mark the distinctive figure of a mallard duck rising on the wing from a marsh or swamp extending into the background. Beneath that illustration is the word "SPORTSMAN," capitalized.

The accompanying drawing and specimen, as actually used upon its goods and as submitted by appellant with its application for registration, depict on the face of the mark a hunter with his gun raised while an accompanying dog is depicted in the act of pointing. Overhead a duck is depicted in flight and in the background a group of pine trees are disclosed against the horizon. Obliquely across the top of the mark the word "Huntsman" is written in large letters.

It is apparent from the description of the contested marks, as hereinbefore noted, that the term "huntsman" as it is used by appellant has the same general significance in meaning as appellee's term "sportsman."

[3] Appellant's contention that the syllable "MAN," which is the ultima common to both words, is but descriptive and therefore not subject to exclusive appropriation by appellee is without merit. The ordinarily accepted and primary meaning of the word "man" is that he is a human being and an adult male person as distinguished from a woman or child. The word is in no way descriptive of the merchandise here involved. See *In re One Minute Washer Company*, 25 C. C. P. A. (Patents) 978, 95 F.(2d) 517, 37 USPQ 203, 494 O. G. 245.

[4] Appellant in support of its position here devotes several pages of its brief to the citation of decisions of the court in litigation involving other trade-marks. The citation of such cases is of little value, however, in an opposition proceeding for the reason that each case must rest upon its own distinctive facts. See *Lactona, Incorporated*, v. *Lever Brothers Company*, 32 C. C. P. A. (Patents) 704, 144 F.(2d) 891, 63 USPQ 62, 568 O. G. 386; *McKesson & Robbins, Inc.*, v. *American Foundation For Dental Science*, 32 C. C. P. A. (Patents) 1235, 150 F.(2d) 420, 66 USPQ 252, 581 O. G. 174.

[5] The respective marks considered as a whole so nearly resemble each other in sound, meaning, and appearance as to be likely in our opinion to cause confusion in the mind of the public as to the origin of the goods when concurrently used by the parties on goods of the same descriptive properties.

The decision of the Commissioner of Patents is accordingly affirmed.

Affirmed.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,329,879. METHOD AND MACHINE FOR GENERATING SAW TEETH. Patented Sept. 21, 1943. Group 35—41. Reg. No. 2,973.

Pat. 2,339,978. MECHANICAL MOVEMENT. Patented Jan. 25, 1944. Group 35—41. Reg. No. 2,974.

The two patents listed above provide a machine for making and reconditioning saw teeth. Automatically produces and maintains accurately-spaced teeth of uniform shape and size. It is easily adjusted for all shapes and sizes ranging from hack-saw to cross-cut beveled type of teeth. Selection of any required pitch and number of teeth per inch is achieved by movement of a lever and selection of a gear on a spacing gear. With appropriate attachment it may be adapted to circular saws. All mechanism, including two power units and abrasive grinding wheel, are mounted on a carriage which travels intermittently on two parallel tracks of the frame. The saw is rigidly clamped to the frame, which has transverse adjustment for saw tooth depth. The grinding wheel, which is individually driven, may be adjusted for reciprocating movement, or combined reciprocating and oscillating movement, depending upon the type of teeth being formed or reconditioned. Inventor states tests indicate life of power hack-saw blades can be increased from 300 to 500% and their cutting speed increased by at least 40%. Also states that machine performs 58 strokes or cuts per minute with possibility of faster operation. Practical working model available. (Co-owner) D. F. Christy, 20 East Fifth Ave., Hinsdale, Ill.

Pat. 1,957,428. REVERSE LOCK FOR DRIVING SHAFTS. Patented May 8, 1934. Device for frictionally gripping drive shaft automatically prevents reverse movement of vehicle when stopped or starting on an incline without interfering with forward movement of vehicle. Pressing a button permits reverse movement. Comprises a sleeve splined to drive shaft, a slotted thimble carrying small rollers in one side over sleeve, an inwardly grooved eccentric sleeve over thimble and linkage means pivotally attached to eccentric sleeve and button. (Owner) Ivo G. Brenneman, Blue Ball, Pa. Groups 33—71; 38—31. Reg. No. 2,975.

Pat. 2,312,530. BUNDLE HEADER. Patented Mar. 2, 1943. For severing heads from bundles of grain, such as kafir corn, milo maize, or the like. Is easily mounted in slanting position on the floor or side of a vehicle body which has an open top. Header is fed and operated by one person standing on the ground, the severed heads falling into body of vehicle. Includes a trough open at both ends with a fixed blade across one end and a swinging blade (operated by a pivoted handle) for severing cooperation with fixed blade. An angle bar maintains cutting engagement between blades. (Owner) John Eklund, Route 1, Box 123, Chanute, Kans. Group 35—22. Reg. No. 2,976.

Pat. 2,086,256. AMPLIFYING CIRCUIT. Patented July 6, 1937. An electronic amplifying circuit operable from either direct current or alternating current power lines without the use of a transformer and switching devices. Especially for use in A. C.—D. C. radio receivers, interoffice communication equipment and sound amplifiers. (Owner) Engineering Development Labs., Inc., 10 East 40th St., New York 16, N. Y. Group 36—62—99. Reg. No. 2,977.

Pat. 1,961,297. REFRIGERATING SYSTEM. Patented June 5, 1934. Group 35—84. Reg. No. 2,978.

Pat. 2,187,497. REFRIGERATOR. Patented Jan. 16, 1940. Group 35—84. Reg. No. 2,979.

The two patents listed above relate to refrigerating systems of the absorption type operating under pressure lower than atmospheric in which the expansion and contraction of the refrigerant absorb the heat from the surrounding area. Patent 1,961,297 may use water as a refrigerant and an absorbent such as glycerole, two cycles being maintained for the refrigerant and the absorbent. In Patent 2,187,497 pressure is equalized between the evaporator and the absorber and the generator and the reabsorber by an admixture of a neutral gas (hydrogen) to the refrigerant (ammonia) and the absorbent (water). Also should generator heat be insufficient, the pressure differential existing between the generator and the reabsorber will cause the ammonia to diffuse to maintain flow so as not to impair the efficiency of or stop the operation of the system. (Owner) Abraham Katzow, 615 Madison St., Indianapolis, Ind.

Pat. 2,283,213. REFRIGERATING SYSTEM. Patented May 19, 1942. Group 35—84. Reg. No. 2,980.

Pat. 2,350,115. REFRIGERATING SYSTEM. Patented May 30, 1944. Group 35—84. Reg. No. 2,981.

The two patents listed above are of the same type as Patents 1,961,297 and 2,187,497 using ammonia as the refrigerant, water as the absorber, and hydrogen as the inert gas. Patent 2,283,213 uses an arrangement of two generators and one or two absorbers. A generator and an absorber are arranged in heat exchanging relationship so that the heat taken up in the generator and emitted in the reabsorber is used to expel the refrigerant from the solution in the associated generator. Patent 2,350,115 uses either one or two condensers with two generators, one condenser being arranged in heat exchanging relationship so that heat absorbed by the refrigerant in the primary generator is given up in the condenser and used to expel the refrigerant from the solution in the associated generator. (Owner) Abraham Katzow, 615 Madison St., Indianapolis, Ind.

Pat. 2,156,664. RESILIENT CUSHION FOR BEDS, CHAIRS, OR THE LIKE. Patented May 2, 1939. Inexpensive construction utilizes a number of endless rubber strips or bands which are disposed with edges upright and the looped ends anchored in slots or secured by staples to frame of chair, foldable cot, mattress or other cushioning and supporting means. A covering may be provided. Resiliency depends on degree of tensioning. May be easily removed, repaired, or replaced. (Owner) Thomas J. Litle III, % Household Products, Inc., 631 Penobscot Bldg., Detroit 26, Mich. Group 25—11—12—21. Reg. No. 2,982.

Pat. 1,971,241. METHOD OF CHLORINATION. Patented Aug. 21, 1934. The material being chlorinated (wood pulp, ores, rubber, vegetable oil) is suspended or dissolved in a fluid mixture of water and carbon tetrachloride and constantly churned so that elemental chlorine which is introduced under pressure at several points, may come in close contact with and be absorbed by the stock being treated. Due to the rapidity of the process, the operation may be performed in an open receptacle, the reaction being maintained at a maximum so that harmful reactions such as oxidation are substantially reduced to prevent weakening of the stock. (Owner) Pennsylvania Salt Mfg. Co., Box 4388, Chestnut Hill P. O., Philadelphia 18, Pa. Group 28—89. Reg. No. 2,983.

Pat. 1,888,886. TREATMENT OF CAUSTIC SOLUTIONS FOR THE PRODUCTION OF SOLUTIONS AND OF SOLID CAUSTIC SODA OF A HIGH DEGREE OF PURITY. Patented Nov. 22, 1932. Group 28—89. Reg. No. 2,984.

Pat. 1,944,630. PROCESS FOR PURIFICATION OF CAUSTIC SODA SOLUTION. Patented Jan. 23, 1934. Group 28—89. Reg. No. 2,985.

Pat. 1,998,471. PROCESS OF PURIFYING CONCENTRATED CAUSTIC SODA SOLUTIONS. Patented Apr. 23, 1935. Group 28—89. Reg. No. 2,986.

Pat. 2,003,734. PROCESS OF TREATING CAUSTIC SODA SOLUTIONS. Patented June 4, 1935. Group 28—89. Reg. No. 2,987.

Pat. 2,028,898. PROCESS FOR THE PURIFICATION OF CAUSTIC SODA SOLUTIONS. Patented Jan. 28, 1936. Group 28—89. Reg. No. 2,988.

Pat. 2,040,717. PROCESS OF PURIFYING CONCENTRATED CAUSTIC SODA SOLUTIONS. Patented May 12, 1936. Group 28—89. Reg. No. 2,989.

The six patents listed above relate to the removal of sodium chloride and sodium sulphate to further purify the caustic soda obtained by the electrolysis of brine. As basically recited in Patent 1,888,886 the addition of sodium sulphate or sulphuric acid at various temperatures either precipitates the sodium chloride or forms a double salt which may be removed by filtration or decantation. Patents 1,944,630; 1,998,471; and 2,028,898 relate to the recovery, for further reuse, of the sodium sulphate used in the process. In Patent 2,003,734 a solution of caustic soda is passed through a filter bed of any of the salts of carbonic acid (i. e., calcium carbonate) to form a removable insoluble salt. Relatively larger crystals are formed which are more readily removable by treating the caustic soda at a temperature of at least 60° C., adding finely divided sodium sulphate and subjecting the solution to rapid cooling. (Owner) Pennsylvania Salt Mfg. Co., Box 4388, Chestnut Hill P. O., Philadelphia 18, Pa.

Pat. 2,076,604. CLEANING PAD. Patented Apr. 13, 1937. A fibrous wad of paper, cotton, wool, or the like is impregnated with an abrasive, wax, kerosene, etc., and used for polishing and cleaning metal. Pad may be used several times, being stored in an air-tight bag or container and kept from drying out. May be manufactured at low cost; various modifications for packaging and display being shown. (Owner) Pennsylvania Salt Mfg. Co., Box 4388, Chestnut Hill P. O., Philadelphia 18, Pa. Group 28—93. Reg. No. 2,990.

Pat. 2,207,658. REGULATING DEVICE. Patented July 9, 1940. This device acts to automatically regulate the flow of material, electric current, course of a ship, temperature of a furnace, etc., by the use of a two-way clutch which is adapted to effect a variable corrective action in opposite directions in response to variations of the conditions to be corrected or regulated. (Owner) Pennsylvania Salt Mfg. Co., Box 4388, Chestnut Hill P. O., Philadelphia 18, Pa. Groups 35—66; 36—19. Reg. No. 2,991.

Pat. 2,327,948. HEIGHT GAUGE ARM ATTACHMENT FOR UNIVERSAL DIAL INDICATORS. Patented Aug. 24, 1943. Indicator attachment in the form of an arm. Adjustably mounted upon dial for indicating under obstructions or overhanging clamps or bolts, as in lathe face plate work, as well as to indicate bores and the like. Arm may be rotated to any desired extent and locked in position. (Owner) Clyde W. Webster, 106 First St., Peoria, Ill. Groups 35—65; 36—13—43. Reg. No. 2,992.

Pat. 2,895,641. FISH LURE. Patented Feb. 26, 1946. Fish lure of the artificial minnow type is adapted to spin when drawn through the water and is provided with two trailing hooks which may be set into cocked position by flexing so that the curved shanks overlie each other in spaced-apart relation. Obviates fouling by weeds and when fish strikes lure, the hooks automatically spring outwardly thrusting barbed ends into mouth or body of fish. (Owner) Walter L. Peterson, 735 West Clybourn St., Milwaukee 3, Wis. Groups 33—73; 39—49. Reg. No. 2,993.

Pat. 2,258,744. ELECTRIC WATER HEATER. Patented Oct. 14, 1941. Quick heating, rust-proof water heater for attachment to a cold water faucet. Pressure of water entering casing depresses valve, lowers discharge pipe and closes drain vents of device. The heated water rises to top of its discharge pipe, emptying downwardly. When water is turned off, heater drains automatically, shutting off current. (Owner) John A. Des Rosiers, 397 Sunset Ave., Windsor, Ontario, Canada. Group 36—21. Reg. No. 2,994.

Pat. 1,817,624. INTERNAL COMBUSTION ENGINE. Patented Aug. 4, 1931. Group 35—19. Reg. No. 2,995.

Pat. 1,826,424. INTERNAL COMBUSTION ENGINE. Patented Oct. 6, 1931. Group 35—19. Reg. No. 2,996.

The two patents listed above relate to internal combustion engines, the cylinders of which have a number of elongated ports arranged on one side and grouped within a relatively small area. A sleeve valve is arranged within the cylinders to control the opening and closing of the inlet and exhaust ports. The cylinder head has an extending portion which divides the cylinder, forming a combustion chamber and acting to mask the ports. The inventor states that the flow into the combustion chamber and exhaust takes place in the most direct manner and at speeds which insure a high degree of turbulence at the time of ignition. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio.

Pat. 1,817,820. POWER TRANSMISSION MEANS. Patented Aug. 4, 1931. "Four wheel drive" of a vehicle is arranged so that little strain is placed on a prime mover having limited output by the provision of two sets of differential gearing so proportioned that the greater part of the drive of each pair of wheels is mechanical. A small generator and motor are mounted on the crank shaft of the engine to cooperate with the engine. The inventor claims that under all conditions the drive of one pair of wheels by the engine is shared with the generator and the drive of the other by the engine and motor. Governing means protects the rotors associated with the generator and the engine against excessive speeds. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio. Groups 35—66; 36—19. Reg. No. 2,997.

Pat. 1,857,343. LAND VEHICLE. Patented May 10, 1932. Endless tread assembly of linkage type for dump trailers, etc., has wheel spacing members and body loosely connected by pair of links, providing a four-bar linkage. Assembly tilts upwardly and rides over obstructions and tilts forwardly and downwardly when meeting a depression. Drawbar maintains body in horizontal position. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio. Group 37—99. Reg. No. 2,998.

Pat. 1,915,995. MOTOR. Patented June 27, 1933. Liquid ejected from a rotor is used to rotate runner to convert hydraulic energy to mechanical energy. The arrangement is such that the operation of the rotor is speeded to give additional capacity to the runner which has been slowed down by an increase in load. The rotor automatically slows down when the runner recovers its speed. Thus the motor is given self-governing characteristics. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio. Group 35—19. Reg. No. 2,999.

Pat. 1,965,119. LOCOMOTION CONTROL FOR VEHICLES. Patented July 3, 1934. Provides a control for overrunning clutches of the type used for "free wheeling" so that when foot pedal is depressed to apply brakes the control is automatically actuated to cause gradual engagement of the overrunning clutch regardless of the speed of the vehicle. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio. Groups 35—66; 38—31. Reg. No. 3,000.

Pat. 1,974,109. CURVED CONDUIT. Patented Sept. 18, 1934. Groups 32—71; 33—93; 34—95; 35—69. Reg. No. 3,001.

Pat. 1,974,110. CURVED CONDUIT. Patented Sept. 18, 1934. Groups 32—71; 33—93; 34—95; 35—69. Reg. No. 3,002.

The two patents listed above relate to an arrangement in the curved way of a conduit which equalizes the paths of all volumes flowing therethrough so that turbulence will be eliminated without loss of force of flow. Patent 1,974,109 places an arrangement of helical partitions in the bend of the conduit whereas Patent 1,974,110 places an arrangement of fins in the straight section of the pipe immediately preceding the curve. Applicable to turbine draft tubes, steam lines, and air inlet passages of internal combustion engines. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio.

Pat. 1,984,830. VEHICLE DRIVE. Patented Dec. 18, 1934. Groups 33—X3; 35—21; 38—11. Reg. No. 3,003.

Pat. 1,984,831. VEHICLE DRIVE. Patented Dec. 18, 1934. Groups 33—X3; 35—21; 38—11. Reg. No. 3,004.

Pat. 1,991,094. VEHICLE DRIVE. Patented Feb. 12, 1935. Groups 33—X3; 35—21; 38—11. Reg. No. 3,005.

Pat. 1,992,210. ELECTROMECHANICAL DRIVE. Patented Feb. 26, 1935. Groups 35—21; 38—11. Reg. No. 3,006.

The four patents listed above relate to the improvement of operation and manueverability of heavy-duty, slow-moving vehicles having side traction means, such as crawler units. Each crawler unit has its own electrical coupling and a pair of motors so that the bulk of power from the engine may be imparted to either unit at the will of the operator without the use of the usual speed change gearing. The arrangement is such that most of the driving power to the traction means is received mechanically instead of electrically. (Owner) Frank R. Higley, 1020 Leader Bldg., Cleveland 14, Ohio.

Pat. 2,157,563. LAMP CHANGER. Patented May 9, 1939. Groups 30—31; 33—52; 40. Reg. No. 3,007.

Pat. 2,243,106. LAMP CHANGER. Patented May 27, 1941. Groups 30—31; 33—52; 40. Reg. No. 3,008.

The device comprises a rubber suction cup fastened to one end of a long pole and having a release cord running the length of the pole. By use of the lamp changer, any sized lamp bulb can be removed from or installed in a socket located in an elevated position. (Owner) Suction Cup Lamp Changer Co. Address correspondence to P. E. Taylor, 6435 Overbrook Ave., Philadelphia 31, Pa.

Patent Removed from Register

Reg. No. 2,926. Patent 2,333,178. GARMENT CLAMP.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 9, 1946

[VOL. 588. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 491,110. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Nov. 5, 1945.

VYRAM

FOR SYNTHETIC RESINS FOR GENERAL USE IN THE INDUSTRIAL ARTS, INCLUDING MOLDING, CASTING, SURFACE COATING AND IMPREGNATION.
Claims use since Oct. 23, 1945.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 463,146. DAVID CAUCHANER, Buenos Aires, Argentina. Filed Sept. 1, 1943.



YEMOL
INDUSTRIA ARGENTINA

The picture in the mark is that of a nude child wholly anonymous to the applicant. The words "Industria Argentina" are disclaimed apart from the mark.

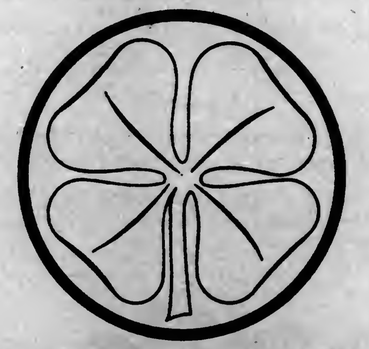
FOR PERFUMED SOAPS—NAMELY, LIQUID SOAP, BAR SOAP, AND POWDERED SOAP AND NON-PERFUMED SOAPS.
Claims use since Apr. 6, 1943.

Ser. No. 479,916. BROOKS BROTHERS, New York, N. Y. Filed Feb. 17, 1945. Under section 5b of the act of 1905 as amended in 1920 as to "Brooks Brothers."



The word appearing near the top portion of the circle is "Sagebrush."
FOR SHAVING SOAP.
Claims use since October 1940.

Ser. No. 491,401. THE CLOVER MANUFACTURING COMPANY, Norwalk, Conn. Filed Nov. 10, 1945.



FOR ABRASIVE COMPOUNDS—NAMELY, GRINDING, AND LAPPING COMPOUNDS, POLISHING AND FINISHING COMPOUNDS, VALVE GRINDING COMPOUNDS; COATED ABRASIVE MATERIALS—NAMELY, ABRASIVE CLOTHS, PAPERS AND FIBROUS MATERIALS COATED WITH ADHESIVE SUBSTANCES TO WHICH ABRASIVE GRAINS ARE APPLIED; ABRASIVE GRAINS; ABRASIVE WHEELS AND ABRASIVE DISKS.
Claims use since 1903.

Ser. No. 493,319. BUCKLIN PROCESS COMPANY, INC., Bethesda, Md. Filed Dec. 15, 1945.

Foam-Ade

FOR SOAP FOR CLEANING AND SHAMPOOING RUGS AND UPHOLSTERY.
Claims use since Oct. 9, 1945.

Ser. No. 494,295. SIDNEY WALDSTEIN, doing business as Lixso Products Co., New York, N. Y. Filed Jan. 4, 1946.

LIXSO

FOR SOAP.
Claims use since 1938.

Ser. No. 495,273. EUGENE C. COOLIDGE, doing business as Atomic Manufacturing Company, Oakland, Calif. Filed Jan. 24, 1946.

ATOMIC GLOW

The word "Glow" is disclaimed apart from the mark.
FOR METAL, GLASS, PORCELAIN, AND LACQUER POLISH.
Claims use since Nov. 1, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 478,512. MARTIN DE BOTELHO, New York, N. Y., assignor to Alexa, Inc., New York, N. Y., a corporation of New York. Filed Aug. 16, 1944.

Enigma

FOR PERFUMES.
Claims use since July 26, 1944.

Ser. No. 475,232. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Oct. 12, 1944.

'Aero' Defoliant

The word "Defoliant" is disclaimed apart from the mark.
FOR CHEMICAL PREPARATION CONTAINING CALCIUM CYANAMIDE USED TO REMOVE FOLIAGE FROM PLANTS.
Claims use since Aug. 12, 1944.

Ser. No. 477,746. EMMY MAYER, doing business as Emmy Bouquet Laboratory, San Francisco, Calif. Filed Dec. 19, 1944.

"The Pride of the Yankees"

FOR AFTER SHAVE LOTION.
Claims use since Nov. 15, 1943.

Ser. No. 484,085. CAVALCADE BEAUTY PREPARATIONS LIMITED, London, England. Filed June 2, 1945.

CAVALCADE

FOR AFTER SHAVING LOTION, EAU DE COLOGNE, BATH ESSENCE, LAVENDER WATER, FACE LOTION, TALCUM POWDER, TOILET POWDER, FACE POWDER, PERFUMES, TOILET WATER, BATH SALTS, DENTIFRICES, HAIR TONICS, BRILLIANTINE, FACE CREAMS, ASTRINGENTS, HAND LOTIONS, MOUTH WASH, FACE POWDER, LIPSTICK, ROUGE, NAIL POLISH.
Claims use since Jan. 31, 1936.

Ser. No. 489,421. SOCIETE DE FINANCEMENT INDUSTRIEL ET COMMERCIAL, Paris, France. Filed Oct. 4, 1945.

PANLYCION

FOR PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF COUGHS, SPASMS OF ALL KINDS, PALPITATION, NERVOUS DYSPEPSIA, DISEASES OF THE NERVOUS SYSTEM, AND HYPERTENSION.
Claims use since Mar. 15, 1945.

Ser. No. 489,538. SANITARY SOAP CO., Paterson, N. J. Filed Oct. 6, 1945.

Sasoco

FOR DISINFECTANT AND DEODORANT, HAVING INCIDENTAL CLEANING PROPERTIES.
Claims use since January 1943.

Ser. No. 489,918. NEILSON CHEMICAL COMPANY, Detroit, Mich. Filed Oct. 18, 1945.

RUSTABOO

FOR CHEMICAL AND DETERGENT PREPARATION FOR CLEANING AND PREPARING METAL SURFACES FOR PAINTING.
Claims use since April 1938.

Ser. No. 490,882. ELARS PRODUCTS, INC., Richmond, Va. Filed Nov. 1, 1945.

KYNAL

FOR ANTISEPTIC MOUTH WASH AND GARGLE, TOOTH PASTE AND TOOTH POWDER.
Claims use since May 20, 1936.

Ser. No. 491,195. GORDON SERVICE, Detroit, Mich. Filed Nov. 5, 1945.

HELIO

FOR VARIOUS MINERAL AND VITAMIN PREPARATIONS.
Claims use since June 15, 1945.

Ser. No. 492,032. PETER CAUSO, doing business as Causo Trading Company, New York, N. Y. Filed Nov. 23, 1945.

RAY·O·SAN

FOR INSECTICIDES.
Claims use since Nov. 15, 1945.

Ser. No. 492,173. THE BAKER CASTOR OIL COMPANY, New York, N. Y., and Bayonne, N. J. Filed Nov. 26, 1945.

BAKELAST

FOR SOLID POLYMERIZED AND OXIDIZED VEGETABLE OILS FOR USE IN COMPOUNDING NATURAL AND SYNTHETIC RUBBERS AND RUBBER-LIKE MATERIALS.
Claims use since Nov. 13, 1945.

Ser. No. 492,611. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y. Filed Dec. 4, 1945.

PEPTON

FOR CHEMICAL PLASTICIZER CONSISTING OF A CATALYTIC PEPTIZER TO PERMIT EASIER PROCESSING OF BOTH SYNTHETIC AND NATURAL RUBBER.
Claims use since Nov. 19, 1945.

Ser. No. 493,441. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed Dec. 17, 1945.

DIGILATA

FOR PREPARATION OF GLUCOSIDES FROM DIGITALIS LANATA FOR THE TREATMENT OF CARDIOVASCULAR DISEASES.
Claims use since Oct. 17, 1945.

Ser. No. 493,579. JACK HARRY AGRON, doing business as The Just Company, St. Joseph, Mo. Filed Dec. 20, 1945.

JUSTS

FOR ESPECIALLY FLAVORED LOZENGE SERVING, PRIMARILY, TO NEUTRALIZE, SWEETEN AND OTHERWISE CONDITION OFFENSIVE BREATH ODORS SUCH AS ARISE FROM USE OF ALCOHOL, TOBACCO, ONIONS, AND SIMILAR PUNGENT AND SAVORY FOODS.
Claims use since Sept. 10, 1945.

Ser. No. 493,661. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Dec. 21, 1945.

MONOCOCATE

FOR COCONUT OIL FATTY ACID MONOESTER OF GLYCEROL AND FOR COCONUT OIL FATTY ACID MONOESTER OF PROPYLENE GLYCOL USED AS SOLVENTS, EMULSION STABILIZERS, PLASTICIZERS, SURFACE ACTIVE AGENTS, AND FOR OTHER PURPOSES.
Claims use since Apr. 23, 1945.

Ser. No. 493,872. HORTON & CONVERSE, Los Angeles, Calif. Filed Dec. 24, 1945.

MICROZOLE

FOR AQUEOUS SUSPENSION OF MICROCRYSTALLINE SULFATHIAZOLE FOR TROPICAL USE.
Claims use since Aug. 14, 1940.

Ser. No. 494,040. JEAN DESPRES, Paris, France. Filed Dec. 29, 1945.

JARDANEL

FOR PERFUMES AND ROUGES.
Claims use since November 1944.

Ser. No. 494,066. HAAS-MILLER CORPORATION, Philadelphia, Pa. Filed Dec. 29, 1945.

HAMISEAL

FOR DISPERSED SYNTHETIC RUBBER, USED FOR BACKFILLING CARPETS AND RUGS, WHERE IT ACTS AS A BINDER AND SEAL.
Claims use since Nov. 15, 1945.

Ser. No. 494,432. EL PARAISO DE PURUA, FUENTES TERMALES, S. A., Mexico City, Mexico. Filed Jan. 8, 1946.

PURUA

FOR TOILET BEAUTY AND PERFUMERY ARTICLES—NAMELY, CREAM ROUGE, EYE SHADOW, ROUGE, CLEANSING CREAM, COLD CREAM, HAND LOTION, COMPLEXION CREME LOTION, AND WRINKLE CREAM, FOUNDATION CREAM, TISSUE CREAM, LIP STICK, NAIL POLISH, CUTICLE OIL, CUTICLE REMOVER, MASCARA, EYE BROW PENCIL, TALC POWDER, DUSTING POWDER, SKIN FRESHENER, ASTRINGENT, EAU DE COLOGNE, PERFUME, TOILET WATER, BRILLIANTINE, AND FACE POWDER.
Claims use since Jan. 4, 1945.

Ser. No. 494,435. EL PARAISO DE PURUA, FUENTES TERMALES, S. A., Mexico City, Mexico. Filed Jan. 8, 1946.

BALNEARIO SAN JOSE DE PURUA

The words "Balneario" and "San Jose" are disclaimed.
FOR TOILET BEAUTY AND PERFUMERY ARTICLES—NAMELY, CREAM ROUGE, EYE SHADOW, ROUGE, CLEANSING CREAM, COLD CREAM, HAND LOTION, COMPLEXION CREME LOTION, AND WRINKLE CREAM, FOUNDATION CREAM, TISSUE CREAM, LIP STICK, NAIL POLISH, CUTICLE OIL, CUTICLE REMOVER, SACHET POWDER, MASCARA, EYE BROW PENCIL, TALC POWDER, DUSTING POWDER, SKIN FRESHENER, ASTRINGENT, EAU DE COLOGNE, PERFUME, TOILET WATER, BRILLIANTINE, AND FACE POWDER.
Claims use since Jan. 4, 1945.

Ser. No. 494,449. PAUL HRITZAY, Edinboro, Pa. Filed Jan. 8, 1946.



Rev. Paul Hritzay

The picture is of the applicant, Paul Hritzay.
FOR LINIMENT USEFUL IN THE TREATMENT OF RHEUMATISM.
Claims use since Nov. 21, 1945.

Ser. No. 494,534. THE AMALGAMATED DENTAL COMPANY, LIMITED, London, England. Filed Jan. 10, 1946.

STELLON

FOR CHEMICAL SOLUTIONS FOR FACILITATING THE PROCESS OF DE-FLASKING AND FINISHING IN THE MANUFACTURE OF ARTIFICIAL DENTURES.
Claims use since May 1942.

Ser. No. 494,629. PHILLIPS PHARMACEUTICAL PRODUCTS, INC., Darien, Conn. Filed Jan. 11, 1946.

HOTACŌL

FOR LINIMENTS TO BE APPLIED EXTERNALLY FOR THE RELIEF OF MUSCULAR PAINS.
Claims use since Nov. 15, 1945.

Ser. No. 494,777. AVON PRODUCTS, INC., New York, N. Y. Filed Jan. 15, 1946.

LOVELIGHT

FOR PERFUMES AND TOILET WATERS.
Claims use since Oct. 25, 1945.

Ser. No. 494,780. AVON PRODUCTS, INC., New York, N. Y. Filed Jan. 15, 1946.

WISHING

FOR PERFUMES, TOILET WATER, LIPSTICK, ROUGE, AND NAIL POLISH.
Claims use since Oct. 25, 1945.

Ser. No. 494,800. RAMIRO SANCHEZ, doing business as Price Hill Laboratory, Cincinnati, Ohio. Filed Jan. 15, 1946.

VIPIX

FOR GENERAL HAIR TONIC AND SCALP AND SKIN CONDITIONER.
Claims use since Jan. 9, 1946.

Ser. No. 494,801. EMMET W. SMITH, doing business as E. W. Smith Chemical Co., Los Angeles, Calif. Filed Jan. 15, 1946.

Esco

FOR BOILER WATER TREATING COMPOUNDS, I. E. COMPOUNDS FOR INTRODUCTION TO BOILER WATERS FOR PREVENTION OR REMOVAL OF SCALE, RUST, AND OTHER SOLIDS.
Claims use since Mar. 22, 1945.

Ser. No. 495,249. PRINCE MATCHABELLI, INC., New York, N. Y. Filed Jan. 23, 1946.

SHOW ME

FOR LIPSTICKS.
Claims use since Dec. 13, 1945.

Ser. No. 495,399. NARDAU, LIMITED, New York, N. Y. Filed Jan. 25, 1946.



FOR PERFUMES, TOILET WATER, LIPSTICKS, COLD CREAMS AND FACE LOTIONS, HAIR TONICS, BATH SALTS, AND BATH OILS.
Claims use since January 1945.

Ser. No. 497,018. ANNA EDIN, doing business as Edin & Co., Minneapolis, Minn. Filed Feb. 21, 1946.

ENDS-ALL

FOR ROACH POWDERS AND OTHER INSECTICIDES.
Claims use since Oct. 15, 1944.

Ser. No. 497,515. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Mar. 1, 1946.

Cyclogesterin

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF OVARIAN DISORDERS.
Claims use since Nov. 27, 1945.

Ser. No. 498,263. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 14, 1946.

Campobiol

FOR LIVER, IRON, AND VITAMIN B-COMPLEX PREPARATION FOR THE TREATMENT OF ANEMIA AND VITAMIN DEFICIENCIES.
Claims use since Mar. 6, 1946.

Ser. No. 499,208. COSMOS INTERNATIONAL CORPORATION, New York, N. Y. Filed Mar. 29, 1946.

KONTRASAL

FOR TABLETS TAKEN INTERNALLY FOR REGULATION OF DISTURBED MINERAL RATIOS WITHIN THE BODY.
Claims use since December 1943.

Ser. No. 499,398. CRESTOAK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 1, 1946.

ATOMA

FOR PREPARATIONS FOR MOTHPROOFING TEXTILE MATERIALS.
Claims use since Aug. 10, 1945.

Ser. No. 499,399. CRESTOAK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 1, 1946.

ATOMA D

FOR COMBINED MOTHPROOFING AND DRY-CLEANING COMPOSITIONS.
Claims use since Aug. 10, 1945.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 497,563. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Mar. 2, 1946.

TWINDOW

FOR WINDOW UNITS COMPOSED PRINCIPALLY OF AT LEAST TWO SHEETS OF GLASS SPACED TO FORM A MULTIPLE GLAZED STRUCTURE.
Claims use since Feb. 5, 1946.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 494,129. SANI-MODE MFG. CO., Chicago, Ill., assignor to Sani-Mode Mfg. Co., Chicago, Ill., a corporation of Illinois. Filed Dec. 29, 1945.

SANI-MODE

FOR SHOWER BATH CURTAINS, AND ACCESSORIES THEREFOR.
Claims use since February 1938.

CLASS 14

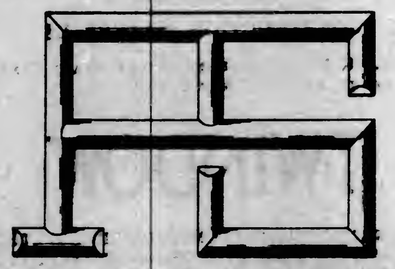
METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 485,699. RUSTLESS IRON & STEEL CORPORATION, Baltimore, Md., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio. Filed July 11, 1945.



FOR ALLOY STEEL AND CORROSION-RESISTING ALLOY STEEL IN THE FORM OF INGOTS, CASTINGS, AND FORGINGS, AND IN WROUGHT FORMS SUCH AS BILLETS, BARS, RODS, WIRE, AND THE LIKE.
Claims use since November 1943.

Ser. No. 490,258. THE POLLAK STEEL COMPANY, Cincinnati, Ohio. Filed Oct. 20, 1945.



FOR ROLLED STEEL BARS AND ALL MERCHANT SHAPES—NAMELY, FLATS, ROUNDS, SQUARES, ANGLES, BANDS, STRIP, T'S; STEEL ACCESSORIES, FORGINGS (HEAVY STEAM); AXLES—STEAM AND ELECTRIC CAR AND LOCOMOTIVE, MINE, LOGGING, SPECIAL HEAT TREATED, HOLLOW BORED; ARMATURE SHAFTS, CAM SHAFTS, COMPRESSOR FORGINGS, CONNECTING RODS, CRANK PINS, CRUSHER ROLLS AND SHAFTS, DESTROYER SHAFTS AND FORGINGS, DREDGING SHAFTS AND FORGINGS, ECCENTRIC SHAFTS, ELEVATOR SHAFTS, MARINE FORGINGS (PROPELLOR SHAFTS, THRUST SHAFTS, CONNECTING RODS), MOTOR SHAFTS; RODS—MAIN AND SIDE, CONNECTING, PISTONS; ROLLS—BENDING, CRUSHER, SUGAR MILL; SHAFTS—ARMATURE, ECCENTRIC, FORGED, CRANK, CRUSHER, MARINE, INDUSTRIAL, SUGAR MILL, TURBINE, ALL IN AN UNFINISHED CONDITION AND ADAPTED TO BE MACHINED OR OTHERWISE FINISHED INTO COMPLETED ARTICLES; DROP FORGINGS AND FORGE MACHINE PRODUCTS; AXLES—(FRONT), CLUTCH FORKS, CONNECTING RODS, CAM SHAFTS, CRANK SHAFTS, CLAMPS, DRIVE PINIONS, GEAR BLANKS, HORIZONTAL EQUALIZER FORGINGS, HOOKS, HANGER-LEVER FORGINGS, STEERING KNUCKLES, WEDGES (JOURNAL BOX), ALL IN AN UNFINISHED CONDITION AND ADAPTED TO BE MACHINED OR OTHERWISE FINISHED INTO COMPLETED ARTICLES, AND BAMBOO STEEL.
Claims use since Aug. 14, 1920.

Ser. No. 491,140. TOWER GROVE FOUNDRY, DIVISION OF LACLEDE STOKER COMPANY, St. Louis, Mo. Filed Nov. 5, 1945.

PRO—IRON

The word "Iron" apart from the mark is disclaimed.
FOR IRON CASTINGS.
Claims use since June 13, 1945.

Ser. No. 492,400. J. M. RAGLE, doing business as J. M. Ragle Industries, Kansas City, Mo. Filed Nov. 30, 1945.

COMMANDO

FOR WELDING RODS.
Claims use since Nov. 14, 1944.

Ser. No. 494,825. EATON MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 16, 1946.

EATONITE

FOR HEAT, WEAR, CORROSION, AND EROSION RESISTANT METALLIC ALLOYS, AND WELDING RODS COMPOSED OF HEAT, WEAR, AND EROSION RESISTANT METALLIC ALLOYS.
Claims use since December 1945.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 483,831. SHELBY D. PITTS, doing business as Houseware Products Company, Chicago, Ill. Filed May 26, 1945.

LINO-LUSTRE

The word "Lustre" is disclaimed apart from the mark.
FOR SURFACE COVERINGS—NAMELY, PROTECTIVE TRANSPARENT FINISHES OR COATINGS.
Claims use since Apr. 13, 1945.

Ser. No. 487,886. THE GELLIN CO., Cleveland, Ohio. Filed Aug. 31, 1945.

GELCO

FOR FLOOR WAX.
Claims use since Jan. 1, 1936.

Ser. No. 489,763. CHARLES A. RICE, doing business as Automic Cleaner-Polish Co., Buffalo, N. Y. Filed Oct. 10, 1945.

AUTOMIC

FOR COMBINED CLEANER AND POLISH FOR AUTOMOBILES AND FURNITURE.
Claims use since Sept. 3, 1945.

Ser. No. 490,264. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 20, 1945.

VISUALITE

FOR READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, PASTE PAINT COLORS, THINNERS, AND REDUCING LIQUIDS.
Claims use since Sept. 24, 1945.

Ser. No. 491,444. ALBERT WITTIG, New York, N. Y., assignor to American Sacol Company, Lynn, Mass. Filed Nov. 10, 1945.

SACOL

FOR LIQUID CONTAINING MAINLY METHYLENE CHLORIDE FOR REMOVING PAINTS AND LACQUERS FROM METALLIC AND WOODEN SURFACES.
Claims use since Nov. 9, 1945.

Ser. No. 492,802. SOUTHERN LACQUERS & COATINGS COMPANY, Miami, Fla. Filed Dec. 6, 1945.

SOLACO

FOR COATING MATERIALS—NAMELY, LACQUERS, THINNERS, AND SYNTHETIC PAINT ENAMELS.
Claims use since March 1944.

CLASS 19

VEHICLES

Ser. No. 487,567. NATIONAL TRADING COMPANY, INC., Hickory, N. C. Filed Aug. 25, 1945.



FOR TRACTOR AND TRUCK TRAILERS.
Claims use since Aug. 3, 1945.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 494,468. SYMPHONIC RADIO AND ELECTRONIC CORPORATION, Cambridge, Mass. Filed Jan. 8, 1945.



FOR RADIO RECEIVING SETS.
Claims use since 1936 on the word "Symphonic," and since April 30, 1945, on the mark presented.

Ser. No. 495,161. ATLAS INSTRUMENT COMPANY, Haddonfield, N. J. Filed Jan. 22, 1946.



FOR ELECTRIC SCISSORS.
Claims use since Nov. 12, 1945.

Ser. No. 495,322. MOLDED INSULATION COMPANY, Philadelphia, Pa. Filed Jan. 24, 1946.

VIZ

FOR RADIO HOME RECEIVING SETS.
Claims use since Dec. 10, 1945.

Ser. No. 495,347. UNITED STATES RADIUM CORPORATION, New York, N. Y. Filed Jan. 24, 1946.

IONOTRON

FOR STATIC ELIMINATORS.
Claims use since Nov. 1, 1945.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 483,078. NANCY ANN DRESSED DOLLS, San Francisco, Calif., assignor to Nancy Ann Storybook Dolls, Inc., San Francisco, Calif., a corporation of California. Filed May 7, 1945.

BIRTHDAY DOLLS

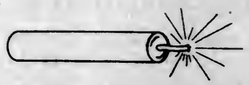
No claim is made to the word "Dolls" apart from the mark.
FOR DRESSED DOLLS.
Claims use since Jan. 1, 1941.

Ser. No. 490,958. NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Nov. 2, 1945.

TOYTOWN

FOR TOY BUILDINGS, MONUMENTS, TREES, BUSES AND AUTOMOBILES IN THE FORM OF PAPER CUT OUTS.
Claims use since Oct. 1, 1945.

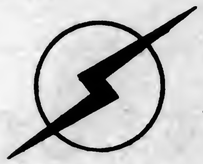
Ser. No. 499,126. DYNA TACKLE COMPANY, Dallas, Tex. Filed Mar. 28, 1946.



DYNA-MITE

FOR ARTIFICIAL CASTING LURES AND FLY ROD LURES.
Claims use since May 15, 1945.

Ser. No. 499,854. SPORTING GOODS, INC., Springfield, Mass. Filed Mar. 30, 1946.



FOR GOLF BALLS AND GOLF CLUBS.
Claims use since Feb. 2, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 485,876. MC QUAY-NORRIS MANUFACTURING COMPANY, St. Louis, Mo. Filed July 16, 1945.

Resi-Bond

FOR ENGINE BEARINGS.
Claims use since January 1944.

Ser. No. 485,949. GENERAL FINANCE CORPORATION, Chicago, Ill., assignor to Climax Industries, Inc., Chicago, Ill., a corporation of Delaware. Filed July 18, 1945.

TILL-MASTER

The word "Till" is disclaimed apart from the mark.
FOR ROTARY PLOW.
Claims use since Oct. 16, 1944.

Ser. No. 486,506. SOUTHERN SUPPLY CO., Pasadena, Calif. Filed July 30, 1945.

CHEM-SPRAY

The word "Spray" is disclaimed apart from the mark.
FOR CLEANING GUNS FOR MIXING, ATOMIZING AND APPLYING CLEANING LIQUIDS IN THE WASHING AND CLEANING OF AIRPLANES AND AUTOMOTIVE AND SIMILAR VEHICLES.
Claims use since Aug. 12, 1939.

Ser. No. 489,338. MERCURY CLUTCH CORPORATION, Canton, Ohio. Filed Oct. 3, 1945.



FOR CENTRIFUGALLY ACTUATED RADIAL, AXIAL, AUTOMATIC, MANUALLY CONTROLLED AND DELAYED ENGAGEMENT CLUTCHES, COUPLINGS AND BRAKES AND PARTS THEREOF FOR USE IN POWER TRANSMISSION, POWER DRIVEN MACHINERY, MOTOR DRIVES, INTERNAL COMBUSTION ENGINE DRIVES, BELT DRIVES, CHAIN DRIVES AND DOMESTIC APPLIANCES, AND FOR USE IN CONNECTING AND DISCONNECTING ANY PRIME MOVER OR DRIVING MEMBER TO OR FROM ANY LOAD TO BE DRIVEN OR ANY DRIVEN MEMBER.
Claims use since August 1939.

Ser. No. 494,998. AFFILIATED RETAILERS, INC., New York, N. Y. Filed Jan. 19, 1946.

ARCROWN

FOR RAZOR BLADES.
Claims use since Nov. 26, 1945.

Ser. No. 494,999. AFFILIATED RETAILERS, INC., New York, N. Y. Filed Jan. 19, 1946.

ARKEEN

FOR RAZOR BLADES.
Claims use since Nov. 26, 1945.

Ser. No. 495,000. AFFILIATED RETAILERS, INC., New York, N. Y. Filed Jan. 19, 1946.

ARTEMP

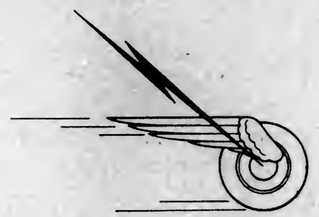
FOR RAZOR BLADES.
Claims use since Nov. 26, 1945.

Ser. No. 495,089. NEW STANDARD CORPORATION, Mount Joy, Pa. Filed Jan. 19, 1946.

Pelican

FOR PICK-UP RAKES.
Claims use since Dec. 28, 1945.

Ser. No. 495,555. THE NEW YORK AIR BRAKE COMPANY, Watertown, N. Y. Filed Jan. 28, 1946.



FOR MASTER CYLINDERS FOR HYDRAULIC BRAKES AND PARTS THEREOF.
Claims use since Oct. 26, 1945.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 468,455. E. LEITZ, INC., New York, N. Y. Filed Mar. 20, 1944.

PANPHOT

FOR MICROSCOPE AND CAMERA.
Claims use since October 1935.

Ser. No. 479,435. LOUIS M. KERN, New York, N. Y., assignor to Tikern Corporation, New York, N. Y., a corporation of New York. Filed Feb. 5, 1945.

Tikern

FOR PHOTOGRAPHIC EQUIPMENT—NAMELY, SUNSHADES, EXTENSION TUBES, TRIPODS, FILTER HOLDERS, AND REFLECTOR STANDS.
Claims use since Dec. 1, 1944.

Ser. No. 487,703. DEJUR-AMSCO CORPORATION, Long Island City, N. Y. Filed Aug. 29, 1945.

Versatile

Applicant is the owner of Reg. No. 383,896.
FOR PHOTOGRAPHIC ENLARGERS AND ACCESSORIES.
Claims use since July 15, 1940.

Ser. No. 489,253. S. DAVIS BRONSON, New York, N. Y. Filed Oct. 2, 1945.

ARO

FOR SPECTACLES, EYEGLASSES, AND LENSES THEREFOR.
Claims use since Apr. 27, 1945.

Ser. No. 495,717. THE AUTOTYPE COMPANY LIMITED, London, England. Filed Jan. 31, 1946.

AUTOTYPE

FOR SENSITIZED PHOTOGRAPHIC PAPERS.
Claims use since Feb. 27, 1922.

Ser. No. 495,851. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y. Filed Feb. 1, 1946.

RAPTAR

Applicant is the owner of Reg. No. 401,467.
FOR PHOTOGRAPHIC LENSES.
Claims use since Dec. 14, 1945.

Ser. No. 495,852. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y. Filed Feb. 1, 1946.

COLOTAR

FOR PHOTOGRAPHIC LENSES.
Claims use since Dec. 14, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 484,483. COSA CORPORATION, New York, N. Y. Filed June 13, 1945.

COSA

FOR WATCHES.
Claims use since Apr. 20, 1945.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 485,118. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed June 28, 1945.

RUB-A-DUB

The word "Rub" is disclaimed apart from the mark.
FOR BUFFERS FOR LEG FILM—I. E., BUFFERS TO REMOVE EXCESS MAKE-UP AFTER IT HAS DRIED ON THE SKIN.
Claims use since May 11, 1937.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 499,255. DEWEY MAKO LOY, doing business as D. M. Loy Manufacturing Company, Fountain City, Tenn. Filed Mar. 29, 1946.

LIFE-BOND

FOR PICTURE FRAMES.
Claims use since July 1945.

CLASS 33

GLASSWARE

Ser. No. 488,374. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The drawing is fanciful.
FOR ARTICLES MADE OF GLASS—NAMELY, BAKING DISHES, MIXING BOWLS, COASTERS, COCKTAIL SHAKERS, COCKTAIL, HIGHBALL AND WINE GLASSES, BRANDY, WHISKEY AND CORDIAL GLASSES, TABLE GLASSWARE AND GLASS COOKING UTENSILS.
Claims use since Aug. 23, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 487,563. NATIONAL TRADING COMPANY, INC., Hickory, N. C. Filed Aug. 25, 1945.



FOR AIR CONDITIONING UNITS.
Claims use since Aug. 2, 1945.

Ser. No. 495,568. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Jan. 29, 1946.

AMOCO

FOR OIL BURNERS FOR HEATING EQUIPMENT.
Claims use since Sept. 11, 1945.

Ser. No. 496,241. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Feb. 8, 1946. Under 10-year proviso.



FOR LAMP AND CANDLE WICKS.
Claims use since 1874.

CLASS 37

PAPER AND STATIONERY

Ser. No. 488,709. THE SAWDON COMPANY, New York, N. Y. Filed Sept. 19, 1945.

ORDER-VELOPE

The word "Order" is disclaimed apart from the mark.
FOR ENVELOPES AND NAMELY ENVELOPES OF THE COMBINED ENVELOPE AND ORDER BLANK VARIETY.
Claims use since Sept. 20, 1940.

Ser. No. 491,641. GENERAL GUMMED PRODUCTS, INC., New York and Richmond Hill, Long Island, N. Y. Filed Nov. 15, 1945.

"ATOMIC"

FOR PAPER TAPE FOR USE ON BOXES AND PACKAGES OF ANY DESCRIPTION, GUMMED SEALING TAPE, GUMMED HOLLAND CLOTH TAPE REINFORCED WITH PAPER FOR USE IN BOOKBINDING AND IN PAPER-CONVERTING INDUSTRIES, GUMMED PAPER VENEER TAPE, GUMMED BOX STAY TAPE, GUMMED CLOTH-PAPER TAPE, GUMMED REINFORCED CORRUGATOR TAPES, GUMMED LABEL PAPER, GUMMED SEAL PAPERS, AND GUMMED COATED PAPERS.
Claims use since Nov. 6, 1945.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 484,851. MINNEAPOLIS STAR JOURNAL AND TRIBUNE COMPANY, Minneapolis, Minn. Filed June 21, 1945. Under 10-year proviso as to "Minneapolis Tribune."

Minneapolis Sunday Tribune
THE VOICE OF THE NORTHWEST

The words "Sunday" and "Northwest" are disclaimed apart from the mark.
FOR REGULARLY ISSUED SUNDAY PAPER.
Claims use since 1879 on the words "Minneapolis Tribune"; and since Dec. 17, 1944, on the mark presented.

Ser. No. 488,638. JAMES L. CARESKEY, Seattle, Wash. Filed Sept. 18, 1945.

RELAX-R-CISES

FOR PERIODICAL PUBLICATION, THE SUBJECT MATTER OF WHICH RELATES TO PHYSICAL CULTURE.
Claims use since August 1945.

Ser. No. 495,770. UNITED STATES NEWS PUBLISHING CORPORATION, Washington, D. C. Filed Jan. 31, 1946.

Worldgram

FOR SECTION OF PERIODICAL PUBLICATIONS.
Claims use since Jan. 25, 1946.

CLASS 39

CLOTHING

Ser. No. 461,296. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. Filed June 11, 1943.

Fieldston

FOR WOMEN'S NEGLIGEES, PAJAMAS, HATS, CORSETS, RIDING BOOTS OF LEATHER AND FABRICS, BREECHES, JODHPURS, AND BEACH ROBES.
Claims use since May 11, 1943.

Ser. No. 479,423. JAMES CRAIG—CALIFORNIA, Los Angeles, Calif. Filed Feb. 5, 1945.

Kims

"Kim" is the name of a well known and popular book by Rudyard Kipling, and is the given name of the central character in that book.

FOR DRESSES FOR THE USE OF WOMEN, MISSES, AND GIRLS.

Claims use since Dec. 1, 1944.

Ser. No. 487,181. ELIZABETH HAT COMPANY, New York, N. Y. Filed Aug. 17, 1945.

LISETTE

FOR LADIES' AND MISSES' HATS.

Claims use since July 26, 1945.

Ser. No. 488,010. ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y. Filed Sept. 6, 1945.



Applicant disclaims the words "sportswear for Men" apart from the mark. The drawing is lined for the colors red and yellow.

FOR MEN'S, BOYS', AND CHILDREN'S UNDERWEAR AND KNITTED OUTERWEAR—NAMELY, SWEATERS INCLUDING PULLOVERS AND BUTTONED SWEATERS; JACKETS AND SPORTS COATS.

Claims use since Aug. 25, 1944.

Ser. No. 490,498. LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y. Filed Oct. 25, 1945.



Applicant disclaims the word "Shower" apart from the mark.

FOR MEN'S AND BOYS' TOPCOATS AND OVERCOATS AND SUITS.

Claims use since Jan. 1, 1943.

Ser. No. 490,546. RHINE UNDERGARMENT COMPANY, New York, N. Y. Filed Oct. 26, 1945.

Rhinette

FOR PANTIES, SLIPS, AND POLO SHIRTS FOR LADIES AND CHILDREN.

Claims use since March 1945.

Ser. No. 492,262. EVERGREEN CORPORATION OF PHILADELPHIA, Philadelphia, Pa. Filed Nov. 27, 1945.

Beaulene

FOR KNITTED SWEATERS.

Claims use since Nov. 16, 1945.

Ser. No. 493,161. MARCO BERGMANN CO., New York, N. Y. Filed Dec. 13, 1945.



Applicant disclaims the right to the use of the word "Hairnet" apart from the mark. The picture of the head of a woman on the mark is fanciful.

FOR HAIR NETS.

Claims use since Dec. 1, 1945.

Ser. No. 495,178. IRVING LUSK, INC., New York, N. Y. Filed Jan. 22, 1646.

LusKoat

No claim is made to the word "Koat" apart from the mark.

FOR MEN'S AND WOMEN'S TOP COATS, RAIN COATS, RAIN CAPES, RAIN HATS AND HOODS, COATS, AND JACKETS.

Claims use since Jan. 15, 1946.

Ser. No. 496,881. ALICE FROCK CO., San Francisco, Calif. Filed Feb. 19, 1946.



FOR WOMEN'S AND CHILDREN'S WEARING APPAREL—NAMELY, BLOUSES, OUTER SHIRTS, SLACKS, SLACK SUITS, COATS, JACKETS, DRESSES, OUTER SKIRTS, OUTER SHORTS, PLAY SUITS, SUN SUITS, BATHING SUITS, SWEATERS, SCARFS, HATS AND CAPS, FABRIC GLOVES, BELTS FOR OUTER WEAR, AND GIRDLES.

Claims use since Nov. 8, 1944.

Ser. No. 497,298. DEVONSHIRE, INC., New York, N. Y. Filed Feb. 27, 1946.

JIG-TIMER

FOR LADIES' AND MISSES' DRESSES.

Claims use since June 1, 1945.

Ser. No. 497,333. RAPID SPORTSWEAR CO., New York, N. Y. Filed Feb. 27, 1946.

HELICOPTER

FOR LADIES' RAINCOATS.

Claims use since Dec. 10, 1945.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 477,910. THE ATHOL COMB CO., New York, N. Y. Filed Dec. 26, 1944.

ATHOWARE

FOR TOILET SETS CONSISTING OF A COMB, BRUSH, AND MIRROR, AND BLANKET HOLDERS ALL MADE OF PLASTIC.

Claims use since Aug. 1, 1936.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 479,957. THE TOWER COMPANY, INC., Seattle, Wash. Filed Feb. 17, 1945.

AIRE-LITE

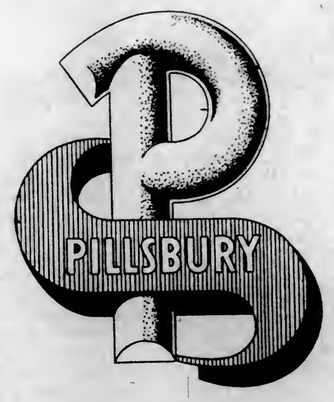
FOR FABRIC MATERIAL FOR FORMING PLASTIC CASTS AND SPLINTS.

Claims use since June 23, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 474,354. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn., now by merger Pillsbury Mills, Inc. Filed Sept. 18, 1944. Under 10-year proviso as to the word "Pillsbury".



The drawing is lined to indicate the color red but the applicant does not claim color as a feature of the mark.

FOR PANCAKE FLOUR, BUCKWHEAT, WHEAT AND CORN PANCAKE FLOUR, ENRICHED FARINA, HOMINY GRITS, CAKE FLOUR, AND CORN MEAL.

Claims use since Jan. 1, 1873, as to the word "Pillsbury"; and since June 16, 1944, on the mark presented.

Ser. No. 475,784. WALLACE & Co., Brooklyn, N. Y. Filed Oct. 27, 1944.

VICTOR

FOR CANDIES AND CHOCOLATES.

Claims use since 1880.

Ser. No. 477,332. KELLOGG COMPANY, Battle Creek, Mich. Filed Dec. 8, 1944.



FOR ANIMAL AND POULTRY FEEDS—NAMELY, FEED FOR CATTLE, HORSES, SHEEP, HOGS, CHICKENS, DUCKS, TURKEYS, RABBITS, DOGS, CATS, FOX, AND MINKS.
Claims use since June 22, 1944.

Ser. No. 480,430. WILTZ W. WAGNER, doing business as Chas. P. Wagner & Bro., New Orleans, La. Filed Mar. 2, 1945.

Helen Ann

Applicant is the owner of Reg. No. 399,832.
FOR BARBECUE SAUCE, TOMATO CATSUP, TOMATO SAUCE, MARASCHINO CHERRIES, CHOW CHOW, OYSTER COCKTAIL SAUCE, FLAVORS FOR FOODS, FRENCH DRESSING, HONEY, PREPARED HORSERADISH, PREPARED LEMON JUICE USED FOR FLAVORING FOODS, MAYONNAISE, MUSTARD, OLIVES, PICKLED ONIONS, PICKLES, RELISHES CONSISTING OF VINEGAR, SALT, SPICE FLAVOR AND CUCUMBERS, PEPPERS, CAULIFLOWER AND ONION, SALAD DRESSING, SANDWICH SPREAD, MEAT SAUCE, PEPPER SAUCE, WORCESTERSHIRE SAUCE, SMOKE FLAVOR FOR FOODS, SHRIMP SEASONING, SPICES, IMITATION FOOD FLAVORING SYRUP, PURE FOOD FLAVORING SYRUP, CRUSHED STRAWBERRIES, COFFEE, AND VINEGAR.
Claims use since Feb. 9, 1945.

Ser. No. 482,440. PURITY CHEESE COMPANY, Mayville, Wis. Filed Apr. 21, 1945.

Le Roi

FOR CHEESE.
Claims use since Nov. 11, 1944.

Ser. No. 482,763. R. J. QUARTAROLI, doing business as Stanislaus Canning Company, Modesto, Calif. Filed Apr. 28, 1945.

SUZY-BEL

FOR CANNED FOODS—NAMELY, CANNED TOMATO PUREE.
Claims use since Apr. 17, 1945.

Ser. No. 486,552. WESTERN PRODUCE CO., Torrington, Wyo. Filed July 31, 1945.

HI-POINT

FOR POTATOES IN THE NATURAL STATE.
Claims use since Oct. 1, 1940.

Ser. No. 489,980. PACIFIC GAMBLE ROBINSON CO., Seattle, Wash. Filed Oct. 15, 1945.

Old South

FOR FRESH ROASTED PEANUTS IN THE SHELL.
Claims use since July 1945.

Ser. No. 492,298. F. B. WASHBURN CANDY CORPORATION, Brockton, Mass. Filed Nov. 27, 1945.

Waleeco

Applicant is the owner of Reg. Nos. 81,041 (renewed) and 85,697 (renewed).
FOR CANDY.
Claims use since Sept. 1, 1944.

Ser. No. 494,422. JOHN ARBINO, doing business as Marshmallow Products, Cincinnati, Ohio. Filed Jan. 8, 1946.

MARPRO

FOR MARSHMALLOW CANDIES IN THE SHAPE OF CONES.
Claims use since 1939.

Ser. No. 495,407. RICHARD & SMITH, Sunset, La. Filed Jan. 25, 1946.



The picture of the man is fanciful. No claim is made to the representation of the potatoes apart from the mark.
FOR FRESH SWEET POTATOES.
Claims use since June 1937.

Ser. No. 500,039. FRANK HERFORT CANNING CO., INC., Baraboo, Wis. Filed May 2, 1946.



Applicant is the owner of trade-mark registration 92,795.
FOR SHELLED NUTS, INCLUDING SALTED NUTS; PEANUT BUTTER, PEANUT OIL FOR FOOD PURPOSES, AND POTATO CHIPS.
Claims use since Apr. 20, 1946.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 485,336. EGGERS FABRIC COMPANY, New York, N. Y. Filed July 2, 1945.

QUALITY 108

No claim is made to the use of the word "Quality" separate and apart from the mark.
FOR COATED FABRICS IN THE NATURE OF ARTIFICIAL LEATHER.
Claims use since June 1, 1945.

Ser. No. 485,337. EGGERS FABRIC COMPANY, New York, N. Y. Filed July 2, 1945.

SUPERTEEN

FOR COATED FABRICS IN THE NATURE OF ARTIFICIAL LEATHER.
Claims use since June 1, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 9, 1946

422,141. STORAGE BATTERIES. PERRINE QUALITY PRODUCTS CORPORATION, Waltham, Mass.
Filed March 20, 1941. Serial No. 441,745. PUBLISHED DECEMBER 11, 1945. Class 21.

422,142. ARC WELDERS AND ELECTRIC WATER HEATERS. A. O. SMITH CORPORATION, Milwaukee, Wis.
Filed October 8, 1941. Serial No. 447,619. PUBLISHED APRIL 2, 1946. Class 21.

422,143. DISTRIBUTORS IN THE NATURE OF ATTACHMENTS FOR USE IN CONNECTION WITH AIR CIRCULATING DEVICES SUCH AS SUCTION CLEANERS FOR ADDING VARIOUS AGENTS TO THE AIR, SUCH, FOR EXAMPLE, AS INSECTICIDES. EUREKA VACUUM CLEANER COMPANY, Detroit, Mich., now by change of name Eureka Williams Corporation, a corporation of Michigan.
Filed June 26, 1943. Serial No. 461,687. PUBLISHED APRIL 16, 1946. Class 23.

422,144. STATIONARY REEL CARRYING APPARATUS FOR THE COMBINED USE OF THE EXTENSION AND RETRACTION OF ELECTRIC LIGHT CORD AND AIR HOSE, ETC. AIRLITE MFG. CO., Emporium, Pa.
Filed January 6, 1944. Serial No. 466,339. PUBLISHED APRIL 2, 1946. Class 21.

422,145. UNITARY ASSEMBLIES OF HYDRAULIC TESTING EQUIPMENT FOR USE IN TESTING AIRCRAFT HYDRAULIC SYSTEMS, AND HYDRAULIC ACCUMULATORS FOR RETENTION OF FLUIDS UNDER FLEXIBLE PRESSURE, FOR USE AS A PART OF SAID TESTING ASSEMBLIES. GREER HYDRAULICS, INC., New York, N. Y.
Filed March 11, 1944. Serial No. 468,198. PUBLISHED APRIL 16, 1946. Class 26.

422,146. CHEWING GUM. PULVER COMPANY, INC., Rochester, N. Y.
Filed April 29, 1944. Serial No. 469,824. PUBLISHED APRIL 23, 1946. Class 46.

422,147. ELECTRICAL CONTROL APPARATUS FOR PLACING A USEFUL LOAD IN A PREDETERMINED POSITION, AND USED IN CONNECTION WITH THE CONTROL OF THE OPERATION OF AN ELECTRIC MOTOR FOR MOVING THE USEFUL LOAD SUCH AS A VALVE, A VARIABLE CONDENSER OR A TOOL INTO THE PREDETERMINED POSITION. SELF WINDING CLOCK CO., INC., New York, N. Y.
Filed May 6, 1944. Serial No. 470,006. PUBLISHED APRIL 16, 1946. Class 21.

422,148. RUM. R. U. DELAPENHA & Co., INC., New York, N. Y.
Filed June 7, 1944. Serial No. 470,968. PUBLISHED APRIL 2, 1946. Class 49.

422,149. CENTRIFUGAL PUMPS, INDUSTRIAL PROCESSING PRESSURE AND VACUUM VESSELS, AND INDUSTRIAL PROCESSING HEAT EXCHANGERS. A. O. SMITH CORPORATION, Milwaukee, Wis.
Filed June 24, 1944. Serial No. 471,640. PUBLISHED APRIL 16, 1946. Class 23.

422,150. MASONRY TOOL IN THE NATURE OF A TOOL CLAMP ASSEMBLY FOR USE IN FACILITATING THE LAYING OF BRICK. ARCHIBALD F. WATKINS, Tyler, Tex.
Filed August 16, 1944. Serial No. 473,354. PUBLISHED APRIL 2, 1946. Class 23.

422,151. INTERNAL COMBUSTION OUTBOARD MOTORS FOR BOATS, ETC. AKTIEBOLAGET ARCHIMEDES, Sundbyberg, Sweden.
Filed September 2, 1944. Serial No. 473,841. PUBLISHED APRIL 16, 1946. Class 23.

422,152. RADIO EQUIPMENT—NAMELY, TRANSMITTERS AND RECEIVERS. ARGUS, INCORPORATED, Ann Arbor, Mich.
Filed September 7, 1944. Serial No. 473,927. PUBLISHED APRIL 2, 1946. Class 21.

422,153. BOXES, CONTAINERS AND PACKAGES FILLED WITH MIXED CANDY, NUTS AND DRIED FRUITS AND FILLED WITH CANDY, NUTS, AND DRIED FRUITS INDIVIDUALLY, SOLD TO THE CONSUMER. BARRICINI INC., Long Island City, N. Y.
Filed September 18, 1944. Serial No. 474,317. PUBLISHED APRIL 16, 1946. Class 46.

422,154. SPARK PLUGS. MOTOR MASTER PRODUCTS CORPORATION, doing business under the name Acme Spark Plug Company, Chicago, Ill.
Filed October 18, 1944. Serial No. 475,440. PUBLISHED APRIL 16, 1946. Class 21.

422,155. SPARK PLUGS. MOTOR MASTER PRODUCTS CORPORATION, doing business under the name Republic Spark Plug Company, Chicago, Ill.
Filed October 18, 1944. Serial No. 475,444. PUBLISHED APRIL 16, 1946. Class 21.

422,156. ELECTRICAL GENERATORS AND MOTORS AND PARTS THEREOF. VERNE C. KENNEDY, Chicago, Ill.
Filed October 30, 1944. Serial No. 475,856. PUBLISHED APRIL 9, 1946. Class 21.

422,157. INDUSTRIAL APPARATUS COMPRISED OF A DRYING CHAMBER AND A BLOWER FOR ESTABLISHING A CURRENT OF A HOT GASEOUS MEDIUM IN THE CHAMBER TO HOLD MATERIALS IN SUSPENSION DURING THE HEATING OR DRYING THEREOF. WESTERN PRECIPITATION CORPORATION, Los Angeles, Calif.
Filed November 6, 1944. Serial No. 476,181. PUBLISHED APRIL 2, 1946. Class 23.

422,158. RECTANGULAR GALVANIZED STEEL PANS; FUNNELS; WELDED PIPE; WELDED STEEL CASING FOR WELLS AND THE LIKE; PORTABLE TRASH BURNERS; TANK FLOATS AND BREW KETTLES. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed November 8, 1944. Serial No. 476,289. PUBLISHED JANUARY 8, 1946. Class 13.

422,159. CARPET SWEEPING AND BEATING BRUSH FOR USE IN CONNECTION WITH SUCTION CLEANERS. EUREKA VACUUM CLEANER COMPANY, Detroit, Mich., now by change of name Eureka Williams Corporation, a corporation of Michigan.
Filed November 11, 1944. Serial No. 476,359. PUBLISHED APRIL 16, 1946. Class 23.

422,160. ELECTRODE HOLDERS, ELECTRICAL INSULATORS, RECEPTACLES FOR ELECTRICAL ELEMENTS, AND ELECTRICAL JUNCTION BASES. E. D. BULLARD COMPANY, San Francisco, Calif.
Filed December 4, 1944. Serial No. 477,177. PUBLISHED APRIL 9, 1946. Class 21.

422,161. WINES. ROMA WINE COMPANY, New York, N. Y., and Fresno, Calif.
Filed December 15, 1944. Serial No. 477,624. PUBLISHED APRIL 2, 1946. Class 47.

422,162. TOOL HOLDERS FOR LATHES. AIRO PRODUCTS, Los Angeles, Calif.
Filed Dec. 18, 1944. Serial No. 477,680. PUBLISHED APRIL 16, 1946. Class 23.

422,163. WINDOW ATTACHABLE PULLEY AND CORD HOISTS FOR STORM SASH, SCREENS, AND SIMILAR ARTICLES. ADOLPH KELLER, Glendale, Mo.
Filed December 26, 1944. Serial No. 477,933. PUBLISHED APRIL 16, 1946. Class 23.

422,164. FEED COOKERS FOR FARMS; STEAM TABLES; TANK HEATERS FOR FARMS; AND STEAM CONDENSERS FOR BOILERS. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed January 11, 1945. Serial No. 478,500. PUBLISHED APRIL 16, 1946. Class 34.

422,165. HARDWARE—NAMELY, HINGES. HARVEY MACHINE CO., INC., Los Angeles, Calif.
Filed January 29, 1945. Serial No. 479,121. PUBLISHED APRIL 16, 1946. Class 13.

422,166. FRESH DECIDUOUS FRUITS. ROBERT H. DART, Sacramento, Calif.
Filed February 21, 1945. Serial No. 480,049. PUBLISHED JUNE 12, 1945. Class 46.

422,167. POWER OPERATED MECHANICAL PUMPS. CLEAVER-BROOKS COMPANY, Milwaukee, Wis.
Filed February 23, 1945. Serial No. 480,129. PUBLISHED APRIL 16, 1946. Class 23.

422,168. MARINE AND DEEP SEA FISHING EQUIPMENT—NAMELY, WINCHES, CAPSTANS, WINDLASSES, GALLOWS FRAMES, TOWING SHOCK ABSORBERS, DAVITS, POWER REELS OF STATIONARY ANCHORAGE, HOISTS, AND PULLEY BLOCKS. NEW ENGLAND TRAWLER EQUIPMENT CO., Chelsea, Mass.
Filed March 2, 1945. Serial No. 480,423. PUBLISHED APRIL 16, 1946. Class 23.

422,169. TRACTOR APPARATUS FOR OPERATION ON OVERHEAD CABLEWAYS. ROBERT W. POINTER, doing business as Pointer-Willamette Company, Portland, Oreg.
Filed March 6, 1945. Serial No. 480,551. PUBLISHED APRIL 2, 1946. Class 23.

422,170. RADIO-RECEIVING SETS, RADIO-TRANSMITTING SETS, TELEVISION-RECEIVING SETS, TELEVISION-TRANSMITTING SETS, SOUND-AMPLIFIER SETS AND INSTRUMENTS. EASTERN AMPLIFIER CORPORATION, New York, N. Y.
Filed March 24, 1945. Serial No. 481,273. PUBLISHED APRIL 16, 1946. Class 21.

422,171. VACUUM TYPE MILKING MACHINES AND PARTS THEREOF AND VACUUM PUMPS. RITE-WAY PRODUCTS COMPANY, Chicago, Ill.
Filed March 26, 1945. Serial No. 481,342. PUBLISHED APRIL 16, 1946. Class 23.

422,172. HYDRAULIC POWER UNITS FOR PERFORMING DIVERSE TYPES OF VEHICLE SERVICING, RECONDITIONING, AND REPAIR WORK; ATTACHMENTS FOR SUCH WORK PERFORMING UNITS INCLUDING SPREADERS, CLAMPS, PRESSES, AND PUSHING AND PULLING TOOLS FOR ADJACENT ELEMENTS, WORK ENGAGING SADDLES, BASES, BLOCKS AND HEADS; WORK PERFORMING SPOONS, WEDGES AND TOES; FORCE TRANSMITTING TUBULAR AND SOLID STRUTS; HYDRAULIC RAMS; ETC. BLACKHAWK MFG. CO., Milwaukee, Wis.
Filed April 23, 1945. Serial No. 482,459. PUBLISHED APRIL 16, 1946. Class 23.

422,173. CONSTRUCTION MATERIALS FORMED WHOLLY OR PARTLY OF THERMO-SETTING OR THERMO-PLASTIC MATERIAL—NAMELY, BULK HEADS AND PANELS FOR CEILINGS, FLOORS, WALLS, PARTITIONS, DOORS, SHIPS, AND FOR FURNITURE. HOLOPLAST LIMITED, Kent, England.
Filed April 30, 1945. Serial No. 482,801. PUBLISHED APRIL 16, 1946. Class 12.

422,174. ELECTRICAL PICK-UP ARMS AND PARTS, AND ELECTRICAL SOUND PICK-UP CARTRIDGES FOR TALKING MACHINES. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed May 5, 1945. Serial No. 483,048. PUBLISHED APRIL 9, 1946. Class 21.

422,175. ELECTRICALLY OPERATED PHONOGRAPH RECORD CHANGERS. WEBSTER-CHICAGO CORPORATION, Chicago, Ill.
Filed June 4, 1945. Serial No. 484,153. PUBLISHED APRIL 9, 1946. Class 21.

422,176. ELECTRICAL APPLIANCES—NAMELY, ELECTRICAL AIR HEATERS, NON-THERAPEUTIC ELECTRICAL HEATING PADS, BLANKETS AND MATTRESSES, ELECTRICAL DEFROSTERS FOR AIRPLANE PARTS, ELECTRICAL FOOD COOKERS, AND ELECTRIC PRESSING IRONS. NORTH AMERICAN ELECTRICAL APPLIANCE COMPANY, INC., Buffalo, N. Y.
Filed June 8, 1945. Serial No. 484,315. PUBLISHED APRIL 2, 1946. Class 21.

422,177. PASTEURIZED CHEESE FOOD CONTAINING THE FOLLOWING INGREDIENTS: ROMANO TYPE CHEESE, FONTINA, ETC. MICHIGAN DAIRY PRODUCTS CORPORATION, Crystal Falls, Mich.
Filed June 11, 1945. Serial No. 484,415. PUBLISHED APRIL 16, 1946. Class 46.

422,178. BRANDY. BOHEMIAN DISTRIBUTING COMPANY, Los Angeles, Calif.
Filed June 18, 1945. Serial No. 484,662. PUBLISHED APRIL 2, 1946. Class 49.

422,179. DRIED FRUITS—NAMELY, PRUNES. VALLEY VIEW PACKING COMPANY, San Jose, Calif.
Filed June 19, 1945. Serial No. 484,762. PUBLISHED AUGUST 21, 1945. Class 46.

422,180. MACHINERY BEARINGS, BUSHINGS FOR MECHANICAL WORKING JOINTS AND MACHINE PARTS—NAMELY, PISTONS, VALVE STEM GUIDES, POROUS BRONZE PLUGS, TOGGLE PINS, FILTER ELEMENTS, SLIDES, GEARS, POROUS BRONZE RINGS, END PLATES, THRUST WASHERS, POROUS BRONZE RETAINERS, OIL SEALS AND SIMILAR PARTS OF POROUS BRONZE FOR BEARING SURFACES. BOUND BROOK OIL-LESS BEARING COMPANY, Bound Brook, N. J.
Filed June 25, 1945. Serial No. 485,002. PUBLISHED APRIL 9, 1946. Class 23.

422,181. VEHICLE MOUNTED ELEVATOR APPARATUS FOR ELEVATING CONCRETE AND OTHER MATERIALS. MIXERMOBILE MANUFACTURERS, Portland, Oreg.
Filed June 29, 1945. Serial No. 485,231. PUBLISHED APRIL 16, 1946. Class 23.

422,182. VERTICALLY ADJUSTABLE, WHEEL-SUPPORTED, BELT-TYPE CONVEYOR. THE RAPIDS-STANDARD COMPANY, INC., Grand Rapids, Mich.
Filed July 2, 1945. Serial No. 485,368. PUBLISHED APRIL 16, 1946. Class 23.

422,183. FROZEN FRESH DECIDUOUS FRUITS AND VEGETABLES AND CANNED DECIDUOUS FRUITS AND VEGETABLES. YOSEMITE GROWERS CO-OPERATIVE ASSOCIATION, Merced, Calif.
Filed July 7, 1945. Serial No. 485,552. PUBLISHED APRIL 16, 1946. Class 46.

422,184. PUTTY KNIVES AND SCRAPERS. RUTH A. BECK, doing business as F. I. Blake Co., Worcester, Mass.
Filed July 14, 1945. Serial No. 485,810. PUBLISHED APRIL 16, 1946. Class 23.

422,185. ICE CRUSHERS. RIVAL MANUFACTURING COMPANY, Kansas City, Mo., assignor to Rival Manufacturing Company, Kansas City, Mo., a corporation of Missouri.
Filed July 16, 1945. Serial No. 485,886. PUBLISHED APRIL 16, 1946. Class 23.

422,186. INK ROLLS FOR PRINTING PRESSES, RUBBER MALLETS, HAMMER CUSHIONS USED ON LARGE STEAM OR ELECTRIC POWER HAMMERS, AND BANDSAW BANDS USED ON PULLEY WHEELS TO PRESERVE THE SET OF THE SAW TEETH. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed July 21, 1945. Serial No. 486,106. PUBLISHED APRIL 16, 1946. Class 23.

422,187. WHISKEY, GIN, BRANDY, COGNAC, RUM, AND ALCOHOLIC CORDIALS. RECORDS & GOLDSBOROUGH, INC., Baltimore, Md.
Filed July 27, 1945. Serial No. 486,385. PUBLISHED APRIL 9, 1946. Class 49.

422,188. MENDING MACHINES AND MENDING PATCHES AND TAPES FOR USE THEREWITH SOLD AS A UNIT, FOR USE IN MENDING FABRICS, ARTICLES OF CLOTHING, FOOTWEAR, AND THE LIKE. SIMMONS MACHINE CO., Chicago, Ill., assignor to Simmons Manufacturing Co., Chicago, Ill., a corporation of Illinois.
Filed July 27, 1945. Serial No. 486,391. PUBLISHED APRIL 16, 1946. Class 23.

422,189. SAW MILLS. JACKSON LUMBER HARVESTER, INC., Eau Claire, Wis.
Filed August 1, 1945. Serial No. 486,578. PUBLISHED APRIL 16, 1946. Class 23.

422,190. ELECTRIC VACUUM CLEANERS. THE APEX ELECTRICAL MANUFACTURING CO., Cleveland, Ohio.
Filed August 3, 1945. Serial No. 486,639. PUBLISHED APRIL 16, 1946. Class 21.

422,191. WATER PUMPS. JABSCO PUMP COMPANY, Beverly Hills, Calif.
Filed August 6, 1945. Serial No. 486,777. PUBLISHED APRIL 2, 1946. Class 23.

422,192. FLAVORED DESSERT POWDERS FOR FOOD PURPOSES CONSISTING OF SUCROSE, COCOA, MALT EXTRACT, AND OTHER INGREDIENTS; ALSO FOR FOOD PRODUCTS MADE FROM BARLEY, MALT, AND OTHER INGREDIENTS, SWEETENED OR UNSWEETENED, FOR USE IN MAKING FOOD BEVERAGES. THE WANDER COMPANY, Chicago, Ill.
Filed August 6, 1945. Serial No. 486,835. PUBLISHED APRIL 16, 1946. Class 46.

422,193. AXES AND HAMMERS. LOUISIANA SUPPLY COMPANY, Sulphur, La.
Filed August 8, 1945. Serial No. 486,908. PUBLISHED APRIL 2, 1946. Class 23.

422,194. MINE OR TIMBER JACKS. EDWARD S. FIELDS, doing business as Fields Manufacturing Company, Morgantown, W. Va.
Filed August 13, 1945. Serial No. 487,249. PUBLISHED APRIL 2, 1946. Class 23.

422,195. FURNITURE CARVINGS, MOULDINGS AND LEGS, CANDLE STANDS, BOOK ENDS, DESK DRAWER FITTINGS, PICTURE FRAMES, ETC. SYRACUSE ORNAMENTAL CO., Syracuse, N. Y.
Filed August 18, 1945. Serial No. 487,289. PUBLISHED APRIL 23, 1946. Class 32.

422,196. PICK-UP REELS FOR AGRICULTURAL HARVESTING MACHINES. HARRISON-DILLAVOU CO., Champaign, Ill.
Filed August 23, 1945. Serial No. 487,468. PUBLISHED APRIL 16, 1946. Class 23.

422,197. HOSE SUPPORTS MADE OF WIRE AND SUPPORTING GARDEN HOSE WITH THE NOZZLE ELEVATED FOR SPRAYING PURPOSES. PETER CAPPIO, doing business as Relax-Spray Company, Flushing, N. Y.
Filed August 24, 1945. Serial No. 487,502. PUBLISHED APRIL 16, 1946. Class 13.

422,198. ELECTRIC STEAM RADIATORS AND ELECTRIC IRONS. MORRIS KORAL, doing business as Koral Electric Mfg. Co., Long Island City, N. Y.
Filed August 25, 1945. Serial No. 487,560. PUBLISHED APRIL 16, 1946. Class 21.

422,199. JACKS OF THE TYPE EMPLOYED IN SHORING UP BUILDINGS. PERMA-JACK CORPORATION, Cleveland, Ohio.
Filed August 28, 1945. Serial No. 487,690. PUBLISHED APRIL 16, 1946. Class 23.

422,200. CANDY AND CANDY CONFECTIONS. ZION INDUSTRIES, INC., Zion, Ill.
Filed August 29, 1945. Serial No. 487,752. PUBLISHED APRIL 16, 1946. Class 46.

422,201. ELECTRICAL TEMPERATURE MEASURING INSTRUMENTS AND PARTS THEREOF. ILLINOIS TESTING LABORATORIES, INC., Chicago, Ill.
Filed August 31, 1945. Serial No. 487,842. PUBLISHED APRIL 23, 1946. Class 26.

422,202. GENERAL UTILITY PAILS HAVING CONTENT GRADUATIONS. OAKES & COMPANY, Chicago, Ill.
Filed September 1, 1945. Serial No. 487,914. PUBLISHED APRIL 16, 1946. Class 26.

422,203. WHISKEY, GIN, BRANDY, COGNAC, RUM, AND ALCOHOLIC CORDIALS. RECORDS & GOLDSBOROUGH, INCORPORATED, Baltimore, Md.
Filed September 24, 1945. Serial No. 488,932. PUBLISHED APRIL 9, 1946. Class 49.

422,204. LUBRICATING OILS AND GREASES. THE AMERICAN OIL COMPANY, Baltimore, Md.
Filed September 26, 1945. Serial No. 488,985. PUBLISHED APRIL 16, 1946. Class 15.

422,205. CEMENTITIOUS LINING MATERIAL FOR TANKS. JOSEPH GLASSMAN, doing business as J. & A. Tank Insulated Lining Co., Hartford, Conn.
Filed September 26, 1945. Serial No. 488,998. PUBLISHED APRIL 16, 1946. Class 12.

422,206. PESTLES AND VESSELS FOR TESTING AND LABORATORY USE, AND DIMENSIONAL CONTROL TOOLS AND INSTRUMENTS FOR PRECISION MEASUREMENTS, ETC. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio.
Filed October 4, 1945. Serial No. 489,426. PUBLISHED APRIL 23, 1946. Class 26.

422,207. VENTILATORS FOR BROODER HOUSES AND BARNS. BEACON STEEL PRODUCTS CO., Westminster, Md.
Filed October 9, 1945. Serial No. 489,638. PUBLISHED APRIL 16, 1946. Class 34.

422,208. BAR CANDY. MERRILL CANDY COMPANY, Merrill, Wis.
Filed October 11, 1945. Serial No. 489,818. PUBLISHED APRIL 16, 1946. Class 46.

422,209. AUTOMATIC FIRE SPRINKLER APPARATUS, FOR USE BOTH INSIDE AND OUTSIDE OF BUILDINGS, AND CONSISTING OF AUTOMATIC SPRINKLERS, ETC. GLOBE AUTOMATIC SPRINKLER COMPANY OF PENNSYLVANIA, Philadelphia, Pa.
Filed October 12, 1945. Serial No. 489,863. PUBLISHED APRIL 16, 1946. Class 13.

422,210. FRESH EGGS. W. A. RUDDELL, doing business as Guaranize Egg Service, Cape May Point, N. J.
Filed October 17, 1945. Serial No. 490,083. PUBLISHED APRIL 16, 1946. Class 46.

422,211. GAS WATER HEATERS. FARMCO, INC., Jersey City, N. J., and New York, N. Y.
Filed October 18, 1945. Serial No. 490,111. PUBLISHED APRIL 23, 1946. Class 34.

422,212. HOLLOW POTTERY WARE—NAMELY, TEA POTS, SUGAR BOWLS, AND CREAM PITCHERS. THE SPARTA CERAMIC COMPANY, East Sparta, Ohio.
Filed October 22, 1945. Serial No. 490,337. PUBLISHED APRIL 23, 1946. Class 30.

422,213. ALCOHOLIC BEVERAGE BITTERS. SUNSET INCORPORATED, Chicago, Ill.
Filed October 22, 1945. Serial No. 490,342. PUBLISHED APRIL 2, 1946. Class 49.

422,214. DRAWING INSTRUMENTS—NAMELY, TRIANGLES, PROTRACTORS, IRREGULAR CURVES, PARALLEL LINERS, SCALES, AND BEAM COMPASSES. EARL J. EARLY, Drexel Hill, Pa.
Filed October 27, 1945. Serial No. 490,584. PUBLISHED APRIL 16, 1946. Class 26.

422,215. ALUMINUM COOKING UTENSILS—NAMELY, PRESSURE PANS, PRESSURE COOKERS, AND PRESSURE CANNERS. ALUMINUM GOODS MFG. CO., Manitowoc, Wis.
Filed October 29, 1945. Serial No. 490,617. PUBLISHED APRIL 16, 1946. Class 13.

422,216. BAKED BEANS WITH PORK IN TIN AND GLASS. CASE-SWAYNE COMPANY, Santa Ana, Calif.
Filed October 29, 1945. Serial No. 490,636. PUBLISHED APRIL 23, 1946. Class 46.

422,217. FLAVORING IN LIQUID FORM IN THE NATURE OF IMITATION VANILLA FLAVOR FOR FOODS. THOMAS O. PINKERTON, doing business as The Flavorene Company, Oklahoma City, Okla.
Filed November 1, 1945. Serial No. 490,904. PUBLISHED APRIL 23, 1946. Class 46.

422,218. RADAR VACUUM TUBE FILAMENT PIPE COMPONENTS AND RADAR VACUUM TUBE OUTPUT PIPE COMPONENTS. FRED FRANCIS RULAND, doing business as Ruland Manufacturing Company, Watertown, Mass.
Filed November 1, 1945. Serial No. 490,906. PUBLISHED APRIL 9, 1946. Class 21.

422,219. DOOR CLOSERS. S-B MANUFACTURING COMPANY, Milwaukee, Wis.
Filed November 3, 1945. Serial No. 491,080. PUBLISHED APRIL 16, 1946. Class 13.

422,220. PEANUT BUTTER. ROBERTSON PEANUT COMPANY, Clayton, Ala.
Filed November 5, 1945. Serial No. 491,124. PUBLISHED APRIL 23, 1946. Class 46.

422,221. COFFEE. GENERAL FOODS CORPORATION, New York, N. Y.
Filed November 8, 1945. Serial No. 491,252. PUBLISHED APRIL 16, 1946. Class 46.

422,222. VEGETABLE OIL SHORTENING. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex.
Filed November 8, 1945. Serial No. 491,257. PUBLISHED APRIL 23, 1946. Class 46.

422,223. VEGETABLE OIL SHORTENING. INTERSTATE COTTON OIL REFINING CO., Sherman, Tex.
Filed November 8, 1945. Serial No. 491,261. PUBLISHED APRIL 23, 1946. Class 46.

422,224. WHISKEY. OLD HEAVEN HILL SPRINGS DISTILLERY, Bardstown, Ky.
Filed November 9, 1945. Serial No. 491,358. PUBLISHED APRIL 2, 1946. Class 49.

422,225. GARMENT HANGERS. L. A. YOUNG SPRING & WIRE CORPORATION, Detroit, Mich.
Filed November 10, 1945. Serial No. 491,446. PUBLISHED APRIL 23, 1946. Class 50.

422,226. MOTION PICTURE FILMS AND FILM STRIPS. INTERCONTINENTAL AUDIO-VIDEO CORPORATION, New York, N. Y.
Filed November 14, 1945. Serial No. 491,571. PUBLISHED APRIL 16, 1946. Class 26.

422,227. PYROPHORIC CIGARETTE LIGHTERS. PROCTOR PRODUCTS, New Haven, Conn.
Filed November 16, 1945. Serial No. 491,727. PUBLISHED APRIL 23, 1946. Class 34.

422,228. SCREW CONNECTIONS AND PARTS OF SCREW CONNECTIONS—NAMELY, SCREWS, BOLTS, STUDS, NUTS, THREAD-INSERTS, AND THREAD BUSHINGS, FOR USE IN DRILLED AND THREADED HOLES. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Long Island City, N. Y.
Filed November 17, 1945. Serial No. 491,744. PUBLISHED APRIL 16, 1946. Class 13.

422,229. COMPLETE STEAM GENERATING UNITS, STEAM BOILERS, AIR HEATERS, STOKERS, WATER COOLED FURNACES, SUPERHEATERS, ETC. THE BABCOCK & WILCOX COMPANY, New York, N. Y.
Filed November 19, 1945. Serial No. 491,800. PUBLISHED APRIL 23, 1946. Class 34.

422,230. REINFORCED LAMINATED TRANSPARENT FILM USED AS A WINDOW GLASS SUBSTITUTE. THE DOBECKMUN COMPANY, Cleveland, Ohio.
Filed November 19, 1945. Serial No. 491,811. PUBLISHED APRIL 23, 1946. Class 50.

422,231. CANNED VEGETABLES. FRAERING BROKERAGE CO. INC., doing business as Dubon Company, New Orleans, La.
Filed November 19, 1945. Serial No. 491,819. PUBLISHED APRIL 23, 1946. Class 46.

422,232. IMITATION VANILLA EXTRACT FOR FOOD FLAVORING PURPOSES, SALAD DRESSING, MAYONNAISE, PURE PREPARED MUSTARD, AND COMPOUND PREPARED MUSTARD. MCCORMICK & CO., INCORPORATED, Baltimore, Md.
Filed November 23, 1945. Serial No. 492,069. PUBLISHED APRIL 23, 1946. Class 46.

422,233. FUEL OIL BURNERS. AUTOMATIC BURNER CORPORATION, Chicago, Ill.
Filed December 1, 1945. Serial No. 492,483. PUBLISHED APRIL 16, 1946. Class 34.

422,234. FRESH VEGETABLES—NAMELY, PEPPERS. REX MCDANIEL, San Luis Rey Valley, Calif.
Filed December 7, 1945. Serial No. 492,844. PUBLISHED APRIL 16, 1946. Class 46.

422,235. CANNED CHICKEN MEATS, WITH THEIR GRAVIES AND JELLIES. WASHINGTON CO-OPERATIVE FARMERS' ASSOCIATION, Seattle, Wash.
Filed December 8, 1945. Serial No. 492,977. PUBLISHED APRIL 23, 1946. Class 46.

422,236. CANNED TURKEY MEATS, WITH THEIR GRAVIES AND JELLIES. WASHINGTON CO-OPERATIVE FARMERS' ASSOCIATION, Seattle, Wash.
Filed December 8, 1945. Serial No. 492,978. PUBLISHED APRIL 23, 1946. Class 46.

422,237. FORTUNE TELLING CARDS. BERTHA M. GRAEBNER, San Antonio, Tex.
Filed December 11, 1945. Serial No. 493,062. PUBLISHED APRIL 23, 1946. Class 22.

422,238. SURGICAL INSTRUMENTS FOR EXAMINING INTERNAL FEMALE ORGANS. AMERICAN CYSTOSCOPE MAKERS, INC., New York, N. Y.
Filed December 27, 1945. Serial No. 493,966. PUBLISHED APRIL 23, 1946. Class 44.

422,239. COMPACTS FOR CONTAINING COSMETICS MADE OF PLASTIC AND SOLD IN TRADE EMPTY. CORO, INC., New York, N. Y.
Filed December 29, 1945. Serial No. 494,032. PUBLISHED APRIL 23, 1946. Class 2.

422,240. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,189. PUBLISHED APRIL 23, 1946. Class 22.

422,241. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,190. PUBLISHED APRIL 23, 1946. Class 22.

422,242. DRESSED DOLLS, NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,191. PUBLISHED APRIL 23, 1946. Class 22.

422,243. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,192. PUBLISHED APRIL 23, 1946. Class 22.

422,244. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,194. PUBLISHED APRIL 23, 1946. Class 22.

422,245. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,197. PUBLISHED APRIL 23, 1946. Class 22.

422,246. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,198. PUBLISHED APRIL 23, 1946. Class 22.

422,247. DRESSED DOLLS. NANCY ANN DRESSED DOLLS, San Francisco, Calif.
Filed January 2, 1946. Serial No. 494,199. PUBLISHED APRIL 23, 1946. Class 22.

422,248. TROLLING SPOONS. LESLIE R. CARMICHAEL, Shaker Heights, Ohio.
Filed January 4, 1946. Serial No. 494,258. PUBLISHED APRIL 23, 1946. Class 22.

422,249. NURSING BOTTLES. CORNING GLASS WORKS, New York, N. Y.
Filed January 4, 1946. Serial No. 494,260. PUBLISHED APRIL 23, 1946. Class 44.

422,250. TOY BOATS. EDWIN D. STONE, Philadelphia, Pa.
Filed January 16, 1946. Serial No. 494,872. PUBLISHED APRIL 23, 1946. Class 22.

422,251. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,041. PUBLISHED APRIL 23, 1946. Class 2.

422,252. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,054. PUBLISHED APRIL 23, 1946. Class 2.

422,253. THERMOPLASTIC MENDING ADHESIVE TAPE. TEXTILEATHER CORPORATION, Toledo, Ohio. Filed March 8, 1946. Serial No. 497,890. Class 5.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

422,254. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE H. COOK, doing business as Cook's Products Company, Boston, Mass. Filed Jan. 15, 1944. Serial No. 466,606.

TWO COOK'S

FOR PACKAGED FOOD PRODUCTS, PARTICULARLY MACARONI, SPAGHETTI, AND THE LIKE MACARONI PRODUCTS.
Claims use since July 1, 1943.

422,255. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM P. SWARTZ, JR. AND COMPANY, Roanoke, Va. Filed Feb. 28, 1944. Serial No. 467,825.

A SUP-R-FINE

FOR DRY, PASTE, AND READY-MIXED PAINT, PAINT ENAMELS, VARNISHES, AND WAX FOR FURNITURE, FLOORS, AND KINDRED USES.
Claims use since Sept. 19, 1941.

422,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL A. FUTTER, doing business as The Carlay Company, Chicago, Ill. Filed June 19, 1944. Serial No. 471,393.

ARIN

FOR VITAMINIC PREPARATION.
Claims use since Sept. 3, 1940.

422,257. (CLASS 12. CONSTRUCTION MATERIALS.) UNIVERSAL SEWER PIPE CORP., Cleveland, Ohio. Filed July 15, 1944. Serial No. 472,311.

SUPERDRANE

FOR CERAMIC DRAIN PIPE.
Claims use since May 1, 1944.

422,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEN SLOVAK, doing business as AAA-1 Products Company, Kansas City, Mo. Filed July 24, 1944. Serial No. 472,591.

New AAA-1 TRIPLE A-1

FOR CHEMICAL ADDITIVE WITH OIL BASE FOR TREATING GASOLINE TO ELIMINATE KNOCKS AND PREVENT VALVES FROM STICKING.
Claims use since April 1943.

422,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCO AMERICAN HYGIENIC COMPANY, Chicago, Ill. Filed Aug. 14, 1944. Serial No. 473,247.

Dermalint

FOR ROUGE.
Claims use since July 1906.

422,260. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) SOUTHWEST DISTRIBUTORS ELECTRICAL APPLIANCE CORPORATION, Wichita, Kans. Filed Sept. 8, 1944. Serial No. 474,005.

Homegas

FOR LIQUEFIED PETROLEUM APPARATUS FOR VAPORIZING AND SUPPLYING GASEOUS FUEL TO GAS BURNING DEVICES; AND FOR WATER HEATERS, SPACE HEATERS, AND COOKING STOVES USING LIQUEFIED PETROLEUM GAS AS A FUEL.
Claims use since June 22, 1944.

422,261. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BURGESS BATTERY COMPANY, Freeport, Ill. Filed Nov. 1, 1944. Serial No. 475,944.

HANDI GOLF

FOR GOLF GAME INCLUDING BALLS AND PROPELLING APPARATUS THEREFOR AND GOALS TO BE DISTRIBUTED ON A PLAYING FIELD.
Claims use since Aug. 5, 1944.

422,262. (CLASS 23. JEWELRY AND PRECIOUS-METAL WARE.) THE EASTERLING COMPANY, Chicago, Ill. Filed Jan. 18, 1945. Serial No. 478,747.

Easterling

FOR STERLING SILVER FLATWARE AND HOLLOWARE.
Claims use since Dec. 7, 1944.

422,263. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SHELBY D. PITTS, doing business as Plasti Products Company, Chicago, Ill. Filed Feb. 9, 1945. Serial No. 479,641.

PLASTI-CLEANER

FOR PAINT, VARNISH AND LACQUER REMOVERS, AND PAINT BRUSH CLEANING PREPARATIONS, SUCH PREPARATIONS ALSO BEING USED FOR REMOVING WAX FROM FLOORS PRIOR TO THE APPLICATION OF PROTECTIVE FINISHES OR COATINGS.
Claims use since Oct. 3, 1944.

422,264. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. SALSBURY'S LABORATORIES, Charles City, Iowa. Filed Mar. 5, 1945. Serial No. 480,525.

EER-OIL

FOR EER-OIL, A SOLUTION FOR IRRIGATING AND WASHING THE EARS OF DOGS, CATS, RABBITS, AND OTHER SMALL DOMESTIC ANIMALS.
Claims use since Apr. 5, 1941.

422,265. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 10, 1945. Serial No. 480,790.

MADRILENE

FOR NAIL ENAMEL AND LIPSTICK.
Claims use since Feb. 12, 1945.

422,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 10, 1945. Serial No. 480,791.

OIL-FAST

FOR TOP FILM FOR NAIL ENAMEL.
Claims use since Feb. 9, 1945.

422,267. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SYDNEY J. HEINRICK, doing business as Vigo Company, Detroit, Mich. Filed Mar. 12, 1945. Serial No. 480,821.

Vigo

FOR MEDICINAL PREPARATION FOR USE AS A LAXATIVE, CORRECTIVE, TONIC, OR CARMINATIVE.
Claims use since Oct. 1, 1944.

422,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIDDLEBROOKE LANCASTER, INC., Brooklyn, N. Y. Filed Apr. 2, 1945. Serial No. 481,641.

Lady Lancaster

The mark has been in bona fide use for not less than one year in interstate commerce by the applicant.
FOR TOILET WATER.
Claims use since Mar. 26, 1945.

422,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIDDLEBROOKE LANCASTER, INC., Brooklyn, N. Y. Filed Apr. 2, 1945. Serial No. 481,642.

Lord Middlebrooke

FOR HAIR DRESSING AND AFTER SHAVE LOTION.
Claims use since Mar. 26, 1945.

422,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. L. LANCASTER COMPANY, Sacramento, Calif. Filed Apr. 18, 1945. Serial No. 482,290.

TASTE TREAT

FOR CANNED FOODS—NAMELY, FRUITS, VEGETABLES, FISH, FRUIT JUICE FOR FOOD PURPOSES AND VEGETABLE JUICE FOR FOOD PURPOSES, AND BOTTLED FOODS—NAMELY, TOMATO CATSUP AND SPANISH STYLE HOT SAUCE.
Claims use since Mar. 26, 1945.

422,271. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. T. MALONE, doing business as L. T. Malone Co., Phoenix, Ariz. Filed May 1, 1945. Serial No. 482,844.

MALONE

FOR FRESH VEGETABLES.
Claims use since Apr. 2, 1945.

422,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed May 9, 1945. Serial No. 483,129.

Mégève

FOR PERFUMERY—NAMELY, SACHETS AND SACHET POWDER.
Claims use since May 1, 1945.

422,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAPID ELECTROPLATING PROCESS, INC., Chicago, Ill. Filed June 14, 1945. Serial No. 484,542.

RAPID

FOR METAL CLEANER—NAMELY, AN OXIDE REMOVING CHEMICAL CONSISTING OF ACID AND A WETTING AGENT; AND METAL PLATING ELECTROLYTES.
Claims use since Mar. 9, 1943.

422,274. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y. Filed June 20, 1945. Serial No. 484,784.

DRISOY

FOR DRYING OIL AS OR IN COATING COMPOSITIONS AND SPECIFICALLY A MODIFIED SOYBEAN OIL.
Claims use since March 1945.

422,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORENCE E. HOLLAND, Brooklyn, N. Y. Filed July 24, 1945. Serial No. 486,204.

HOLLMIX

FOR MUFFIN MIX.
Claims use since March 1945.

422,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUALITY PRODUCTS CO., INC., New York, N. Y. Filed Aug. 7, 1945. Serial No. 486,871.

SORRENTO

FOR PERFUMES AND TOILET WATER.
Claims use since May 9, 1945.

422,277. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WEST DISINFECTING COMPANY, Long Island City, N. Y. Filed Aug. 9, 1945. Serial No. 486,979.

LUSTRECLEAN

FOR CLEANING PREPARATION FOR FLOORS AND PAINTED SURFACES, HAVING INCIDENTAL DEODORIZING, POLISHING, AND WAXING PROPERTIES.
Claims use since August 1938.

422,278. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM F. LANCASTER, doing business as Domestic Chemical Company, Farmington, Mich. Filed Aug. 28, 1945. Serial No. 487,682.

PRONTO

MAKES DIRT GO

FOR WASHING COMPOUNDS.
Claims use since Jan. 31, 1944.

422,279. (CLASS 39. CLOTHING.) FASHION FORECAST, Los Angeles, Calif. Filed Sept. 22, 1945. Serial No. 488,853.

FASHION FORECAST by Dorothy O'Hara CALIFORNIA

FOR WOMEN'S DRESSES.
Claims use since May 1944.

422,280. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) R. H. LAIRD MANUFACTURING COMPANY, INC., New York, N. Y. Filed Sept. 28, 1945. Serial No. 489,126.

Young Skin

FOR LIQUID FACIAL SOAP.
Claims use since Sept. 23, 1938.

422,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CERRUTI & COMINELLI, New York, N. Y. Filed Oct. 25, 1945. Serial No. 490,479.

FRATELLI FULVI • VITERBO (ITALY)

FOR CHEESE.
Claims use since 1922.

422,282. (CLASS 39. CLOTHING.) LEVY BROS. & ADLER ROCHESTER, INCORPORATED, Rochester, N. Y. Filed Oct. 25, 1945. Serial No. 490,497.

Layer

FOR MEN'S AND BOYS' TOPCOATS AND OVERCOATS AND SUITS.
Claims use since Jan. 1, 1943.

422,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA LEE, INC., Waco, Tex. Filed Nov. 5, 1945. Serial No. 491,101.

SPICY BOUQUET

FOR COLOGNE.
Claims use since April 1940.

422,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY HERMANOS, Quetzal, Guatemala. Filed Nov. 17, 1945. Serial No. 491,756.

BELEN

FOR COFFEE.
Claims use since 1919.

422,285. (CLASS 39. CLOTHING.) DOROTHY BAKER SPORTSWEAR, INC., New York, N. Y. Filed Nov. 21, 1945. Serial No. 491,960.

Dorothy Baker

FOR LADIES' PLAYSUITS, JUMPERS, DRESSES, COATS, JACKETS, SLACKS, SHORTS, SUITS AND BLOUSES.
Claims use since Nov. 10, 1944.

422,286. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA LEE, INC., Waco, Tex. Filed Dec. 5, 1945. Serial No. 492,718.

MARTHA LEE

FOR FACE POWDER, CLEANSING CREAMS, NIGHT CREAM, FACE CREAM, LUBRICANT CREAM, SKIN CREAM, EYELID CREAM, MEDICATED CREAM FOR THE TREATMENT OF PIMPLES AND SLIGHT SKIN IRRITATIONS, FACIAL PACK, MEDICATED LOTION FOR THE TREATMENT OF PIMPLES AND SLIGHT SKIN IRRITATIONS, LUBRICANT LOTION, ASTRINGENT LOTION, FINISHING LOTION, SKIN FRESHENER LOTION, FACIAL OIL, ROUGE, LIPSTICK, EYE SHADOW, EYEBROW PENCIL, COLOGNE, AND PERFUMED SKIN CREAM.
Claims use since September 1926.

422,287. (CLASS 39. CLOTHING.) PEERLESS TAILORED DRESSES, New York, N. Y. Filed Dec. 15, 1945. Serial No. 493,398.

Peerless SINCE 1904

FOR WOMEN'S, MISSES' AND JUNIOR DRESSES.
Claims use since July 1904.

422,288. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. OBERTI & SONS, Madera, Calif. Filed Dec. 22, 1945. Serial No. 493,817.

OBERTI

FOR RIPE OLIVES, SPANISH TYPE GREEN OLIVES AND RIPE CHOPPED OLIVES, AND OLIVE OIL.
Claims use since Dec. 15, 1935.

422,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMPSON-HAYWARD CHEMICAL COMPANY, Kansas City, Mo. Filed Dec. 22, 1945. Serial No. 493,850.

DRYSTEROL

FOR VITAMIN CONCENTRATE TO BE INCORPORATED IN LIVESTOCK FEED.
Claims use since Jan. 24, 1944.

422,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAY DEE DRUG CO., Chicago, Ill. Filed Jan. 2, 1946. Serial No. 494,186.

Maree

FOR COSMETIC PREPARATIONS—NAMELY, HAIR BLEACH, AND WAVE SET.
Claims use since June 1932.

422,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCARLET TOOTH PASTE CO., New York, N. Y. Filed Feb. 18, 1946. Serial No. 496,866.

Scarlet

FOR TOOTH PASTE.
Claims use since Dec. 5, 1944.

TRADE-MARK REGISTRATIONS RENEWED

27,853. **ANTOXIDE.** PAINTS, STAINS, FILLERS, JAPANS, VARNISHES, AND SIMILAR ARTICLES. Registered Feb. 25, 1896. HARRISON BROS. & CO., Philadelphia, Pa.. Re-renewed Feb. 25, 1946, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 16.

28,479. **"WASHBURN" ETC.** WHEAT-FLOUR. Registered June 30, 1896. WASHBURN-CROSBY COMPANY. Renewed June 30, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

50,084. **ANCHOR.** ASPHALT. Registered Mar. 6, 1906. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed Mar. 6, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

50,475. **PEERLESS.** LOZENGES. Registered Mar. 20, 1906. NEW ENGLAND CONFECTIONERY CO., Boston, Mass. Re-renewed Mar. 20, 1946, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts. Class 46.

50,846. **"B" WITHIN DIAMOND DESIGN.** BUILDING, ROOFING, AND SHEATHING PAPER. Registered Apr. 3, 1906. BARRETT MANUFACTURING COMPANY. Renewed Apr. 3, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

51,166. **"B" WITHIN DIAMOND DESIGN.** TAR AND PITCH. Registered Apr. 3, 1906. BARRETT MANUFACTURING COMPANY. Re-renewed Apr. 3, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 1.

51,226. **REPRESENTATION OF A GLOBE.** WEIGHING MACHINES AND PARTS THEREOF. Registered Apr. 10, 1906. E. AND T. FAIRBANKS AND COMPANY, St. Johnsbury, Vt. Re-renewed Apr. 10, 1946, to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Class 26.

51,437. **BB.** ROOFING-FELT. Registered Apr. 17, 1906. BARRETT MANUFACTURING COMPANY. Re-renewed Apr. 17, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

51,531. **NEW DEFENDER.** SEWING-MACHINES. Registered Apr. 17, 1906. ALBERT G. MASON. Re-renewed Apr. 17, 1946, to White Sewing Machine Corporation, Cleveland, Ohio, a corporation of Delaware. Class 23.

51,619. **JOHNSON.** TROUSERS. Registered Apr. 17, 1906. I. L. PEARL & Co. Re-renewed Apr. 17, 1946, to Johnson Woolen Mills, Inc., Johnson, Vt., a corporation of Vermont. Class 39.

51,708. **VULCAN.** COTTON RUBBER-LINED HOSE. Registered Apr. 24, 1906. EUREKA FIRE HOSE CO., Jersey City, N. J. Re-renewed Apr. 24, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

51,886. **PIONEER.** COTTON RUBBER-LINED HOSE. Registered Apr. 24, 1906. EUREKA FIRE HOSE CO., Jersey City, N. J. Re-renewed Apr. 24, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

52,049. **CRYSTAL.** ASPHALT. Registered May 1, 1906. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed May 1, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

52,068. **AMAZON.** RUBBER BELTING. Registered May 1, 1906. GORHAM RUBBER COMPANY, San Francisco, Calif. Re-renewed May 1, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

52,365. **MYERS.** HAY-CARRIERS. Registered May 8, 1906. F. E. MYERS & BRO. Re-renewed May 8, 1946, to The F. E. Myers & Bro. Co., Ashland, Ohio, a corporation of Ohio. Class 23.

53,422. **STANDARD.** CHECKING-CRAYONS, SCHOOL-CRAYONS, AND MARKING-CRAYONS. Registered June 5, 1906. JOSEPH M. HOYT. Re-renewed June 5, 1946, to Standard Crayon Manufacturing Corporation, Danvers, Mass., a corporation of Massachusetts. Class 37.

53,656. **GRANITE.** ROOFING CONSISTING OF FLEXIBLE SHEETS OF WATERPROOF MATERIAL. Registered June 12, 1906. THE EASTERN GRANITE ROOFING COMPANY. Re-renewed June 12, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

53,739. **REPRESENTATION OF EAGLE UPON GLOBE.** SCREWS, BOLTS, NUTS, RIVETS, BURS, WASHERS, AND WIRE NAILS. Registered June 12, 1906. AMERICAN SCREW COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed June 12, 1946. Class 13.

53,994. **WINCHESTER.** SHOTGUNS AND RIFLES. Registered June 19, 1906. WINCHESTER REPEATING ARMS CO. Re-renewed June 19, 1946, to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware. Class 9.

53,997. **"B" WITHIN DIAMOND DESIGN.** COAL-TAR PAINT. Registered June 19, 1906. BARRETT MANUFACTURING COMPANY. Re-renewed June 19, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 16.

54,051. **ROUGH ON RATS.** RAT, VERMIN, AND INSECT DESTROYER OR EXTERMINATOR. Registered June 19, 1906. EPHRAIM S. WELLS. Re-renewed June 19, 1946, to Estate of E. S. Wells, Jersey City, N. J., a testamentary trust. Class 6.

54,086. **"BILTRITE" AND DESIGN AND BUST PICTURE OF A YOUNG MAN.** MEN'S LEATHER BOOTS AND SHOES. Registered June 19, 1906. SMITH-BRISCOE SHOE COMPANY, Lynchburg, Va. Re-renewed June 19, 1946, to Owen W. Metzger, doing business as Wetherhold & Metzger, Allentown, Pa. Class 39.

54,172. **LIBBEY.** CUT-GLASS ARTICLES. Registered June 19, 1906. THE LIBBEY GLASS COMPANY. Re-renewed June 19, 1946, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio. Class 33.

54,236. **"J. BROOK & BROS." ETC.** COTTON THREAD. Registered June 26, 1906. JONAS BROOK & BROS., LIMITED, Meltham, England. Re-renewed June 26, 1946, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J., a corporation of New Jersey. Class 43.

54,313. **CANTON PLOWS.** RIDING AND WALKING PLOWS. Registered June 26, 1906. PARLIN & ORENDORFF CO., Canton, Ill. Re-renewed June 26, 1946, to International Harvester Company, Chicago, Ill., a corporation of New Jersey. Class 23.

54,336. **REPRESENTATION OF A RAKE.** COTTON YARN, SEWING-COTTON, AND CROCHET-COTTON NOT ON SPOOLS OR REELS, SEWING-COTTON ON SPOOLS OR REELS. Registered June 26, 1906. JONAS BROOK & BROS., LIMITED, Meltham, England. Re-renewed June 26, 1946, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J., a corporation of New Jersey. Class 43.

54,410. **OVAL.** CANNED FRUITS AND VEGETABLES. Registered June 26, 1906. THE BOOTH PACKING COMPANY. Re-renewed June 26, 1946, to Gibbs & Company, Incorporated, Baltimore, Md., a corporation of Maryland. Class 46.

54,443. **JOHN CLARK JUNR. & CO'S.** COTTON THREAD. Registered June 26, 1906. THE CLARK MILE-END SPOOL COTTON CO., East Newark, N. J. Re-renewed June 26, 1946, to The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Class 43.

54,480. **SUCHARD.** CHOCOLATES AND COCOAS. Registered June 26, 1906. RUSS-SUCHARD & CIE., Neuchatel, Switzerland, assignors to Suchard Société Anonyme of Serrieres. Re-renewed June 26, 1946, to Chocolat Suchard Société Anonyme, Neuchatel, Switzerland, a corporation of Switzerland. Class 46.

54,527. **MILKA.** CHOCOLATE CANDIES, CHOCOLATE, AND PREPARATIONS OF CHOCOLATE AND COCOAS. Registered June 26, 1906. RUSS-SUCHARD & CIE., Neuchatel, Switzerland, assignors to Suchard Société Anonyme, of Serrieres. Re-renewed June 26, 1946, to Chocolat Suchard Société Anonyme, Neuchatel, Switzerland, a corporation of Switzerland. Class 46.

54,550. **AMAZON.** RUBBER HOSE. Registered June 26, 1906. GORHAM RUBBER COMPANY, San Francisco, Calif. Re-renewed June 26, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

54,654. **O.N.T.** COTTON THREADS OF ALL KINDS. Registered June 26, 1906. THE CLARK THREAD COMPANY, Newark, N. J., a corporation of New Jersey. Renewed June 26, 1946. Class 43.

54,666. **REPRESENTATION OF A GOAT'S HEAD ETC.** COTTON THREAD. Registered June 26, 1906. JONAS BROOK & BROS., LIMITED, Meltham, England. Re-renewed June 26, 1946, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J., a corporation of New Jersey. Class 43.

54,675. **ACME.** CHLORID OF LIME. Registered June 26, 1906. A. MENDLESON'S SONS, Albany, N. Y. Re-renewed June 26, 1946, to B. T. Babbitt, Inc., Albany and New York, N. Y., a corporation of New York. Class 6.

54,705. **"ECLIPSE" AND DRAWING.** BACK-PEDALING COASTER-BRAKES AND PARTS THEREOF. Registered June 26, 1906. ECLIPSE MACHINE CO. Re-renewed June 26, 1946, to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware. Class 19.

54,771. **SATINE.** WASHING-POWDER. Registered July 31, 1906. DAVID S. BROWN, New York, N. Y. Renewed July 31, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

54,880. **"KEEN KUTTER" AND DESIGN.** PICKS, MATTOCKS, GRUB-HOES, AND EYE-HOES. Registered July 31, 1906. SIMMONS HARDWARE COMPANY. Re-renewed July 31, 1946, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Class 23.

54,920. **"FLOR DE HABANA" ETC.** HAVANA CIGARS. Registered Aug. 7, 1906. J. S. MURIAS Y CA, New York, N. Y. Re-renewed Aug. 7, 1946, to H. de Cabanas y Carbajal, Trenton, N. J., a corporation of New Jersey. Class 17.

54,921. **EMPRESS.** WHEAT-FLOUR. Registered Aug. 7, 1906. F. S. & F. D. LARABEE, Stafford, Kans. Renewed Aug. 7, 1946, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware. Class 46.

55,017. **"WORLD BRAND" ETC. AND DRAWING.** SILVER HOLLOW WARE, FLAT WARE, AND TABLEWARE. Registered Aug. 7, 1906. THE AMERICAN SILVER COMPANY, Bristol, Conn. Re-renewed Aug. 7, 1946, to International Silver Company, Meriden, Conn., a corporation of New Jersey. Class 28.

55,056. **HUMP.** HOOKS AND EYES. Registered Aug. 7, 1906. THE DE LONG HOOK & EYE COMPANY. Re-renewed Aug. 7, 1946, to The De Long Hook and Eye Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 40.

55,096. **DELTA.** METALLIC ALLOYS. Registered Aug. 7, 1906. THE PHOSPHOR-BRONZE SMELTING CO. LIMITED. Re-renewed Aug. 7, 1946, to The Phosphor Bronze Smelting Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 14.

55,108. **WHITE OAK.** COAL. Registered Aug. 7, 1906. THE WHITE OAK COAL CO., Macdonald W. Va. Re-renewed Aug. 7, 1946, to The New River Company, Mount Hope, W. Va., a corporation of West Virginia. Class 1.

55,158. **MARLIN.** SHOT-GUNS, RIFLES, REVOLVERS, AND PARTS THEREOF. Registered Aug. 7, 1906. THE MARLIN FIRE ARMS COMPANY. Re-renewed Aug. 7, 1946, to The Marlin Firearms Company, New Haven, Conn., a corporation of Connecticut. Class 9.

55,254. **BUDS.** SOLID CHOCOLATE CONFECTIONS. Registered Aug. 7, 1906. H. O. WILBUR & SONS, Philadelphia, Pa. Re-renewed Aug. 7, 1946, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania. Class 46.

55,290. **"LA VENCEDORA" ETC.** HAVANA CIGARS. Registered Aug. 14, 1906. HAVANA COMMERCIAL COMPANY, Jersey City, N. J., and New York, N. Y. Re-renewed Aug. 14, 1946, to Havana Commercial Company, Trenton, N. J., a corporation of New Jersey. Class 17.

55,327. **GRUEN.** WATCHES, WATCHCASES, AND WATCH-MOVEMENTS. Registered Aug. 14, 1906. D. GRUEN & SONS. Re-renewed Aug. 14, 1946, to The Gruen Watch Company, Cincinnati, Ohio, a corporation of Ohio. Class 27.

55,341. **BAKER.** HORSE-BLANKETS. Registered Aug. 14, 1906. WILLIAM AYRES & SONS. Re-renewed Aug. 14, 1946, to William Ayres & Sons, Philadelphia, Pa., a firm. Class 3.

55,406. **REPRESENTATION OF AN ELEPHANT.** METALLIC ALLOYS. Registered Aug. 14, 1906. THE PHOSPHOR-BRONZE SMELTING CO., LIMITED. Re-renewed Aug. 14, 1946, to The Phosphor Bronze Smelting Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 14.

55,444. **THE DAKOTA FARMER.** MAGAZINE OR PERIODICAL. Registered Aug. 14, 1906. THE W. F. T. BUSHNELL COMPANY. Re-renewed Aug. 14, 1946, to The Bushnell Company, Aberdeen, S. Dak., a corporation of South Dakota. Class 38.

55,449. **FAIRBANKS.** WEIGHING-SCALES AND APPURTENANCES THEREOF. Registered Aug. 14, 1906. E. AND T. FAIRBANKS AND COMPANY, St. Johnsbury, Vt. Re-renewed Aug. 14, 1946, to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Class 26.

55,475. **"A" IN A CIRCLE.** BOTTLE AND PRESCRIPTION CORKS OF ALL KINDS. Registered Aug. 14, 1906. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Re-renewed Aug. 14, 1946, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania. Class 50.

55,555. **DUPLEX.** MACHINE FOR FILING AND GUMMING GIN-SAWS. Registered Aug. 14, 1906. THE A. A. WOOD & SONS COMPANY, Atlanta, Ga., a corporation of Georgia. Re-renewed Aug. 14, 1946. Class 23.

55,610. **JAS. & JNO. M. WORRALL.** COTTON PIECE GOODS. Registered Aug. 21, 1906. J. & J. M. WORRALL LIMITED, Salford, England, a United Kingdom corporation. Re-renewed Aug. 21, 1946. Class 42.

55,665. **REPRESENTATION OF A RED CIRCULAR BAND.** SODA AND SALERATUS, EITHER ALONE OR WHEN MIXED WITH A POWDERED ACID, AS IS COMMON TO FORM A BAKING POWDER, AND SAL-SODA. Registered Aug. 21, 1906. CHURCH & DWIGHT COMPANY. Re-renewed Aug. 21, 1946, to Church & Dwight Co. Inc., New York, N. Y., a corporation of Delaware. Classes 6 and 46.

55,768. **"RED STAR" ETC.** YEAST. Registered Aug. 21, 1906. NATIONAL DISTILLING CO. Re-renewed Aug. 21, 1946, to Red Star Yeast and Products Company, Milwaukee, Wis., a corporation of Wisconsin. Class 46.

55,885. **STANDARD BRAND.** PURE CANE-SUGAR GLOBULES, ABSORBENT SUGAR DISKS, AND REFINED SUGAR-OF-MILK TABLETS. Registered Aug. 21, 1906. FREDERICK BISCHOFF, New York, N. Y. Re-renewed Aug. 21, 1946, to Standard Homoeopathic Globule & Disk Co. Inc., Brooklyn, N. Y., a corporation of New York. Class 6.

55,938. **"LIGHT CRUST" ETC.** WHEAT-FLOUR. Registered Aug. 21, 1906. THE BURRUS MILL & ELEVATOR COMPANY, Fort Worth, Tex. Re-renewed Aug. 21, 1946, to Tex-O-Kan Flour Mills Co., Dallas, Tex., a corporation of Delaware. Class 46.

203,711. **KIDDIEFLOAT.** SWIMMING RINGS. Registered Sept. 22, 1925. EDWIN A. GUINSBURG. Renewed Sept. 22, 1945, to New York Merchandise Co., Inc., New York, N. Y., a corporation of New York. Class 22.

206,702. **FASHION Q CLOTHES.** MEN'S COATS, VESTS, PANTS, AND OVERCOATS. Registered Dec. 8, 1925. WEAR WELL PANTS CO. Renewed Dec. 8, 1945, to Wearwell Company, Inc., Baltimore, Md., a corporation of Maryland. Class 39.

208,741. **"AMERICAN BEAUTY".** SHOW CASES. Registered Feb. 9, 1926. GRAND RAPIDS SHOW CASE COMPANY. Renewed Feb. 9, 1946, to Grand Rapids Store Equipment Co., Grand Rapids, Mich., a corporation of Michigan. Class 32.

209,006. **VISO.** WATCHES AND CLOCKS, MOVEMENTS, CASES, DIALS, AND PARTS THEREOF. Registered Feb. 16, 1926. MONTRES ERA & VISO, C. RUEFLI-FLURY & CIE. SOCIÉTÉ ANONYME. Renewed Feb. 16, 1946, to Era Watch Co. Limited C. Rüefli-Flury & Co., Bienne-Biel, Switzerland, a Swiss corporation. Class 27.

209,104. **"SUPERTEST".** GASOLINE, KEROSENE, AND LUBRICATING OILS AND GREASES. Registered Feb. 16, 1926. "SUPERTEST" LIMITED. Renewed Feb. 16, 1946, to Supertest Petroleum Corporation Limited, London, Ontario, Canada, a corporation of the Province of Ontario, Canada. Class 15.

209,305. **NITROKOTE.** READY-MIXED PAINT, VARNISH, AND PAINT ENAMEL. Registered Feb. 23, 1926. W. P. FULLER & CO., San Francisco, Calif., a corporation of California. Renewed Feb. 23, 1946. Class 16.

209,366. **DUREX.** VARNISH AND MIXED PAINT. Registered Feb. 23, 1926. FRANK NOGUES, Los Angeles, Calif. Renewed Feb. 23, 1946, to Durex Abrasives Corporation, Jersey City, N. J., a corporation of Delaware. Class 16.

209,741. **ADORIA.** LADIES' AND MISSES' COATS, SUITS, GOWNS, SKIRTS, WAISTS, AND SWEATERS. Registered Mar. 2, 1926. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa., a corporation of New York. Renewed Mar. 2, 1946. Class 39.

209,759. **WESTERN FIELD.** SHOT SHELLS. Registered Mar. 2, 1926. WESTERN CARTRIDGE COMPANY. Renewed Mar. 2, 1946, to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware. Class 9.

209,791. **"SKEE SCOOTER" ETC.** CANDY. Registered Mar. 2, 1926. MERRILL CANDY COMPANY, Merrill, Wis., a corporation of Wisconsin. Renewed Mar. 2, 1946. Class 46.

210,152. **MINTEX.** IMPREGNATED ASBESTOS MATERIAL IN THE FORM OF RINGS, LININGS, AND COVERINGS FOR USE IN FRICTION CLUTCHES, BRAKE BLOCKS, BRAKE BANDS, SHOCK ABSORBERS, AND IN OTHER APPLIANCES OF A LIKE NATURE. Registered Mar. 9, 1926. BRITISH BELTING & ASBESTOS LTD., London, England, a share company of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 9, 1946. Class 35.

210,410. **A CIRCULAR DESIGN.** SPECTACLES, SPECTACLE FRAMES, AND OPHTHALMIC LENSES. Registered Mar. 16, 1926. THE WHITE-HAINES OPTICAL COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed Mar. 16, 1946. Class 26.

210,411. **WH.** SPECTACLES, SPECTACLE FRAMES, AND OPHTHALMIC LENSES. Registered Mar. 16, 1926. THE WHITE-HAINES OPTICAL COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed Mar. 16, 1946. Class 26.

210,412. **"WH" AND DESIGN.** SPECTACLES, SPECTACLE FRAMES, AND OPHTHALMIC LENSES. Registered Mar. 16, 1926. THE WHITE-HAINES OPTICAL COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed Mar. 16, 1946. Class 26.

210,420. **N. F. NICKEL SILVER.** SILVER-PLATED TABLEWARE, FLATWARE, HOLLOW WARE, AND CUTLERY. Registered Mar. 16, 1926. ONEIDA COMMUNITY LIMITED. Renewed Mar. 16, 1946, to Oneida Ltd., Oneida, New York, a corporation of New York. Class 28.

210,699. **WESTERN.** TARGET TRAPS AND TARGETS. Registered Mar. 23, 1926. WESTERN CARTRIDGE COMPANY. Renewed Mar. 23, 1946, to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware. Class 22.

210,908. **"SAFE MILK FOR BABIES" AND DRAWING.** RAW MILK, PASTEURIZED MILK, HOLSTEIN NURSERY MILK (RAW), ACIDOPHILUS MILK, BUTTERMILK, PASTEURIZED CREAM, WHIPPING CREAM, CHEESE, AND EGGS. Registered Mar. 30, 1926. WISE BROTHERS. Renewed Mar. 30, 1946, to Chestnut Farms-Chevy Chase Dairy Company, Washington, D. C., a corporation of Delaware. Class 46.

211,020. **KASHMANA.** WOOLEN PIECE GOODS. Registered Mar. 30, 1926. FORSTMANN & HUFFMANN COMPANY. Renewed Mar. 30, 1946. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

211,247. **SORBO.** FLESH PADS, AND TRUSS PADS. Registered Apr. 6, 1926. SORBO RUBBER-SPONGE PRODUCTS LTD. Renewed Apr. 6, 1946, to Sorbo Limited, Woking, England, a registered company of Great Britain. Class 44.

211,267. **"RIDGEWOOD" ETC. AND DRAWING.** MEN'S SOFT FELT HATS, STIFF FELT HATS, AND VELOUR HATS. Registered Apr. 6, 1926. MURPHY-GORMAN COMPANY. Renewed Apr. 6, 1946, to The Mallory Hat Company, Danbury, Conn., a corporation of Connecticut. Class 39.

211,403. **"'BUFFALO' QUALITY" AND DRAWING.** WOVEN TRUNK STRAPS, WOVEN RAZOR STROPS, WOVEN SKATE STRAPS, AND WOVEN BAG STRAPS. Registered Apr. 13, 1926. BUFFALO WEAVING & BELTING CO., Buffalo, N. Y., a corporation of New York. Renewed Apr. 13, 1946. Class 3.

211,407. **BANQUET.** JELLIES, JAMS, FRUIT BUTTERS, FRUIT AND BERRY PRESERVES, AND PICKLES. Registered Apr. 13, 1926. SQUIRE DINGEE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Apr. 13, 1946. Class 46.

212,082. **"S. V. K." ETC. AND DESIGN.** ARTIFICIAL SLATES, SLABS, PLAIN OR WAVED. Registered Apr. 27, 1926. LÉON SCHEERDERS VAN KERCHOVE. Renewed Apr. 27, 1946, to Usines Réunies Scheerders-Van Kerchove Société Anonyme, St. Nicolas-Waes, Belgium, a company of Belgium. Class 12.

212,217. **VOLUMAKER.** WHEAT FLOUR. Registered Apr. 27, 1926. SPERRY FLOUR COMPANY, San Francisco, Calif. Renewed Apr. 27, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

212,320. **ANHYDROSOL.** WATER AND STAIN PROOFING LIQUID. Registered Apr. 27, 1926. TOCH BROTHERS, INCORPORATED, New York, N. Y. Renewed Apr. 27, 1946, to Toch Brothers, Incorporated, Staten Island, N. Y., a corporation of New York. Class 16.

212,423. **"FORT SNELLING" ETC.** FOOD FLAVORING EXTRACTS—NAMELY, VANILLA, ALMOND, ORANGE, AND LEMON; NUTMEG, MUSTARD, PEPPER, COCOA, CINNAMON, GROUND POULTRY SEASONING, CANNED FRUITS, VEGETABLES, AND PORK AND BEANS, CANNED SALMON, LOBSTER, SHRIMP, AND OYSTERS, COFFEE, TEA, BUCKWHEAT FLOUR, AND CERTAIN OTHER NAMED GROCERY ITEMS. Registered May 4, 1926. FOLEY BROS. GROCERY CO. Renewed May 4, 1946, to Griggs, Cooper & Company, St. Paul, Minn., a corporation of Delaware. Class 46.

212,450. **MA BROWN'S.** PICKLES, JELLIES, JAMS, FRUIT AND BERRY PRESERVES, CATCHUP, AND PREPARED MUSTARD. Registered May 4, 1926. SQUIRE DINGEE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 4, 1946. Class 46.

212,535. **"UNIVERSITY CLUB" AND DRAWING.** MEN'S SOFT FELT HATS, STIFF FELT HATS, AND VELOUR HATS. Registered May 4, 1926. MURPHY GORMAN COMPANY. Renewed May 4, 1946, to The Mallory Hat Company, Danbury, Conn., a corporation of Connecticut. Class 39.

212,602. **MARKSMAN.** RIFLE CARTRIDGES. Registered May 11, 1926. WESTERN CARTRIDGE COMPANY. Renewed May 11, 1946, to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware. Class 9.

212,699. **SUPERFLEX.** BED SPRINGS. Registered May 11, 1926. PERFECTION MATTRESS & SPRING COMPANY, Birmingham, Ala., a corporation of Alabama. Renewed May 11, 1946. Class 32.

212,762. **BEST & CO.** JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES; SILVER DRESSER SETS, AND SILVER TABLEWEAR. Registered May 11, 1926. BEST & CO. INC., New York, N. Y., a corporation of New York. Renewed May 11, 1946. Class 28.

212,790. **BEST & CO.** NURSERY FURNITURE—NAMELY, CRIBS, COSTUMERS, WARDROBES, BASSINETS, PLAY YARDS, HAMPERS, SANITARY RECEIVERS, NURSERY CHAIRS, TABLES AND CHAIRS FOR LITTLE CHILDREN, BABY WALKERS, DRESSING TABLES, NIGHT TABLES, AND PICTURE FRAMES, AND PILLOWS. Registered May 11, 1926. BEST & CO. INC., New York, N. Y., a corporation of New York. Renewed May 11, 1946. Class 32.

212,791. **BEST & CO.** MEN'S, WOMEN'S, MISSES' AND CHILDREN'S HATS; SHOES OF LEATHER, CALFSKIN, SATIN, BROCADE, AND KID, SLIPPERS OF LEATHER, FELT, AND WOOL, PUTTEES; AND FABRIC, LEATHER, AND WOOL GLOVES; LEGGINGS, OVERGAITERS AND SPATS; WOMEN'S, MISSES', AND CHILDREN'S SWEATERS, STOCKINGS, SOCKS, UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS; COLLAR AND CUFF SETS, TIES, BELTS, SCARFS, COATS AND SUITS FOR WOMEN, MISSES, AND CHILDREN; DRESSES, LINGERIE, NEGLIGEES, PETTICOATS, APRONS, AND PYJAMAS, AND OTHER CERTAIN NAMED ARTICLES OF CLOTHING. Registered May 11, 1926. BEST & CO. INC., New York, N. Y., a corporation of New York. Renewed May 11, 1946. Class 39.

212,887. **"POLLY SAYS PANGBURN'S" AND DRAWING.** ICE CREAMS AND SHERBETS. Registered May 18, 1926. PANGBURN COMPANY, INC., Fort Worth, Tex., a corporation of Texas. Renewed May 18, 1946. Class 46.

212,904. **"BALJON" ETC.** COLD CREAM, CLEANSING CREAM, FACE POWDER, AND ROUGE. Registered May 18, 1926. J. BAALMANN MANUFACTURING CHEMIST, San Francisco, Calif., a copartnership. Renewed May 18, 1946. Class 6.

212,949. **PIONEER.** JUVENILE IRON, WOOD, AND ALL-STEEL COASTER AND EXPRESS WAGONS, CARS, AUTOMOBILES, VELOCIPEDES, TRICYCLES, BIKES, SCOOTERS, TOT-WALKERS, AND BARROWS. Registered May 18, 1926. THE GENDRON WHEEL CO. Renewed May 18, 1946, to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio. Class 22.

213,073. **"DIAMOND K" AND DESIGN.** FRESH GRAPES. Registered May 18, 1926. G. M. KASPARIAN. Renewed May 18, 1946, to Diamond K. Vineyards, Exeter, Calif., a partnership. Class 46.

213,227. **ALCOLESS-ALEATED.** PURE CULTURE OR FERMENT EMPLOYED IN THE PRODUCTION OF CEREAL BEVERAGES WHICH ARE EITHER NON-ALCOHOLIC OR CONTAIN LESS THAN ONE-HALF OF ONE PERCENT OF ALCOHOL, BY VOLUME. Registered May 25, 1926. MANFRED WAHL, Philadelphia, Pa. Renewed May 25, 1946. Class 48.

213,256. **BEST & CO.** FUR SKINS, HIDES, AND PELTS. Registered May 25, 1926. BEST & CO. INC., New York, N. Y., a corporation of New York. Renewed May 25, 1946. Class 1.

213,320. **ANNU-OILED.** WINDMILLS AND REPAIR AND REPLACEMENT PARTS THEREFOR. Registered May 25, 1926. DEMPSTER MILL MANUFACTURING COMPANY, Beatrice, Nebr., a corporation of Nebraska. Renewed May 25, 1946. Class 23.

213,343. **RED TOP.** REPAIR PATCHES FOR PNEUMATIC TIRES. Registered May 25, 1926. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Renewed May 25, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

213,424. **AETNA'S BEST.** WHEAT FLOUR. Registered May 25, 1926. THE LARABEE FLOUR MILLS CORPORATION, Kansas City, Mo. Renewed May 25, 1946, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware. Class 46.

213,522. **"HANCOCK" ETC.** LUBRICATING OILS AND GREASES. Registered June 1, 1926. HANCOCK REFINING CO. Renewed June 1, 1946, to The Hancock Oil Company of California, Long Beach, Calif., a corporation of Delaware. Class 15.

213,530. **"MON PETIT" AND DRAWING.** INFANTS' WEAR, VIZ, BOOTEES, JACKETS, DRESSES, SHIRTS, COATS, CAPS, HATS, DRAWERS, AND MITTENS. Registered June 1, 1926. JAMES A. HEARN & SON, INC. Renewed June 1, 1946, to Hearn Department Stores, Inc., New York, N. Y., a corporation of New York. Class 39.

213,624. **COMMANDER.** SEMOLINAS, DURUM FEED AND DURUM FLOUR, WHEAT OFFALS, RYE FEED AND RYE FLOUR. Registered June 1, 1926. COMMANDER MILL COMPANY. Renewed June 1, 1946, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware. Class 46.

213,685. **UNIQUE.** GASOLINE. Registered June 1, 1926. BENZO-GAS MOTOR FUEL COMPANY, Kansas City, Mo. Renewed June 1, 1946, to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Class 15.

213,840. **"SUN-RAY" AND DESIGN.** HAIR TONIC. Registered June 8, 1926. MORRIS LANGHAUS, doing business as Sun-Ray Hair Preparations Co., New York, N. Y. Renewed June 8, 1946. Class 6.

214,032. **TWIN PEAKS.** CANNED VEGETABLES—NAMELY, TOMATOES, BEANS, AND PEAS. Registered June 8, 1926. TWIN PEAKS CANNING CO. Renewed June 8, 1946, to Rocky Mountain Packing Corporation, Salt Lake City, Utah, a corporation of Utah. Class 46.

214,041. **SLIKETTE.** COTTON PIECE GOODS. Registered June 8, 1926. BRAND & OPPENHEIMER INCORPORATED, New York, N. Y., a corporation of New York. Renewed June 8, 1946. Class 42.

214,100. **"ELBE" AND DESIGN.** STATIONERS' SUPPLIES—NAMELY, LOOSE-LEAF BINDERS, RINGS, FILLERS, DESK PADS, PAPER CLIPS, ALUMINUM AND STRIPED WOOD CLIP BOARDS, LOOSE LEAF LEDGERS, SCREW POSTS, AND SUPPORTS FOR BOOKS, FILES MADE OF LEATHER, CLOTH AND PAPER; OFFICE SUPPLIES—NAMELY, ALL ARTICLES HERETOFORE MENTIONED UNDER STATIONERY SUPPLIES AND ALSO FOLDERS FOR FILING CABINETS, METAL TIPS FOR VERTICAL GUIDES; ADVERTISING NOVELTIES AND SPECIALTIES—NAMELY, TELEPHONE INDEXES, TELEPHONE BOOK COVERS; AND PHILATELIC SUPPLIES—NAMELY, STOCK BOOKS, APPROVAL CARDS, POSTAGE-STAMP ALBUMS, STOCK SHEETS, POCKET STOCK BOOKS; SET BOOKS AND ENVELOPE ALBUMS; AND OTHER CERTAIN NAMED PRODUCTS AND SUPPLIES. Registered June 15, 1926. ELBE FILE & BINDER COMPANY, INC., New York, N. Y. Renewed June 15, 1946, to Elbe File & Binder Co. Inc., Fall River, Mass., a corporation of New York. Class 37.

214,122. **RAINBOW.** CREPE PAPER. Registered June 15, 1926. AMERICAN TISSUE MILLS, Holyoke, Mass., a corporation of Massachusetts. Renewed June 15, 1946. Class 37.

214,151. **THE ADVENT REVIEW AND SABBATH HERALD.** WEEKLY PUBLICATIONS. Registered June 15, 1926. REVIEW AND HERALD PUB. ASSN., Takoma Park, D. C. Renewed June 15, 1946, to Review & Herald Publishing Association, Washington, D. C., a corporation of the District of Columbia. Class 38.

214,152. **THE YOUTH'S INSTRUCTOR.** WEEKLY PUBLICATIONS. Registered June 15, 1926. REVIEW AND HERALD PUB. ASSN., Takoma Park, D. C. Renewed June 15, 1946, to Review & Herald Publishing Association, Washington, D. C., a corporation of the District of Columbia. Class 38.

214,262. **THE HOOVER NEWSY NEWS.** PUBLICATION. Registered June 15, 1926. THE HOOVER COMPANY, North Canton, Ohio, a corporation of Ohio. Renewed June 15, 1946. Class 38.

214,323. **MULLEX.** REFRACTORY MATERIALS, PARTICULARLY ARTIFICIAL MULLITE. Registered June 22, 1926. THE EXOLON COMPANY, Blasdell, N. Y. Renewed June 22, 1946, to The Exolon Company, Tonawanda, N. Y., a corporation of Massachusetts. Class 12.

214,352. **"BAXTER'S FINEST" AND DESIGN.** CANNED VEGETABLES, PARTICULARLY CANNED PEAS, CANNED STRING AND STRINGLESS BEANS. Registered June 22, 1926. H. C. BAXTER & BRO., Brunswick, Maine, a firm. Renewed June 22, 1946. Class 46.

214,362. **BASMOR.** TEMPERATURE-CONTROL DEVICES FOR WATER HEATERS—NAMELY, THERMOSTATICALLY CONTROLLED VALVES AND PARTS THEREOF. Registered June 22, 1926. BASTIAN-MORLEY CO. Renewed June 22, 1946, to Bastian-Morley Co., Inc., La Porte, Ind., a corporation of Indiana. Class 26.

214,388. **SILVER DEW DROPS.** CHOCOLATES. Registered June 22, 1926. ROCKWOOD & CO., New York, N. Y., a corporation of Delaware. Renewed June 22, 1946. Class 46.

214,607. **"UNIQUE" AND DRAWING.** CHAIRS FOR HOUSEHOLD PURPOSES, DINING TABLES, CARD TABLES, KITCHEN TABLES, AND LIVING-ROOM TABLES, SERVERS AND BUFFETS. Registered June 29, 1926. J. C. SPACH WAGON WORKS, INC., Winston-Salem, N. C., a corporation of North Carolina. Renewed June 29, 1946. Class 32.

214,612. **FADELITE.** ELECTRIC POSITION INDICATOR FOR ELEVATORS. Registered June 29, 1926. ELEVATOR SUPPLIES CO., INC., Hoboken, N. J. Renewed June 29, 1946, to Elevator Supplies Company, Inc., Perth Amboy, N. J., a corporation of New Jersey. Class 21.

214,899. **GROVER SUPER TURN SHOE.** WOMEN'S, MISSES', AND CHILDREN'S SHOES MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. Registered July 6, 1926. J. J. GROVER'S SONS COMPANY, Lynn, Mass. Renewed July 6, 1946, to J. J. Grover Shoe Company, Boston, Mass., a corporation of Massachusetts. Class 39.

214,913. **"DR. CHAS. FOOTE" AND DESIGN.** SHOES MADE WHOLLY OR IN PART OF LEATHER. Registered July 6, 1926. NATH'L FISHER & Co., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 39.

214,960. **COMET.** OLEOMARGARINE. Registered July 6, 1926. JOHN F. JELKE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 6, 1946. Class 46.

215,139. **BRIARCLIFF.** BOND PAPER. Registered July 13, 1926. CONNECTICUT VALLEY PAPER & ENVELOPE CO., INC., New York, N. Y., a corporation of New York. Renewed July 13, 1946. Class 37.

215,174. **CYSTONE.** MEDICINE FOR CYSTITIS. Registered July 13, 1926. C-Y LABORATORIES, INC., Pulaski, Tenn. Renewed July 13, 1946, to C-Y Laboratories, Inc., Memphis, Tenn., a corporation of Tennessee. Class 6.

215,216. **GYRAFOAM.** CLOTHES-WASHING MACHINES AND AGITATORS THEREFOR. Registered July 13, 1926. THE MAYTAG COMPANY. Renewed July 13, 1946, to The Maytag Company, Newton, Iowa, a corporation of Delaware. Class 24.

215,341. **WINNER.** OLEOMARGARINE. Registered July 13, 1926. JOHN F. JELKE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 13, 1946. Class 46.

215,345. **GYRATATOR.** CLOTHES-WASHING MACHINES AND AGITATORS THEREFOR. Registered July 13, 1926. THE MAYTAG COMPANY. Renewed July 13, 1946, to The Maytag Company, Newton, Iowa, a corporation of Delaware. Class 24.

215,391. **"DURO BRANCO" ETC.** WHEAT FLOUR. Registered July 20, 1926. WASHBURN CROSBY COMPANY. Renewed July 20, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

215,627. **GINGHAM.** CORN MEAL, RYE FLOUR, PANCAKE FLOUR, BREAKFAST FOODS OF WHEAT AND CORN, POULTRY MASH, POULTRY SCRATCH FEEDS, DAIRY FEEDS, CALF FEEDS, HORSE AND MULE FEEDS, AND HOG FATTENER. Registered July 20, 1926. GEO. P. PLANT MILLING COMPANY, St. Louis, Mo. Renewed July 20, 1946, to Dixie-Portland Flour Company, also doing business as The Arkansas City Flour Mills, Memphis, Tenn., and Arkansas City, Kans., a corporation of Tennessee. Class 46.

215,719. **"SOBERANA" ETC.** WHEAT FLOUR. Registered July 27, 1926. WASHBURN CROSBY COMPANY. Renewed July 27, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

215,740. **"CARBONELL Y CIA" ETC. AND DRAWING.** SOAPS. Registered July 27, 1926. CARBONELL & Co. (S. EN C.). Renewed July 27, 1946, to Carbonell y Compañia de Cordoba S. A., Cordoba, Spain, a corporation of Spain. Class 4.

215,741. **"CARBONELL" ETC. AND DRAWING.** PURE OLIVE OILS. Registered July 27, 1926. CARBONELL & Co. (S. EN C.). Renewed July 27, 1946, to Carbonell y Compañia de Cordoba S. A., Cordoba, Spain, a corporation of Spain. Class 46.

215,775. **SUNSHEEN.** ARTIFICIAL SILK IN SMALL SKEINS FOR EMBROIDERY. Registered July 27, 1926. J. & P. COATS (R. I.) INC., Pawtucket, R. I., a corporation of Rhode Island. Renewed July 27, 1946. Class 43.

215,781. **"HEARN NURSE'S DELIGHT" ETC. AND DRAWING.** DRY GOODS, PARTICULARLY OF WOVEN FABRICS OF EITHER COTTON OR LINEN OR COTTON AND LINEN MIXED—NAMELY, DIAPERING IN THE PIECE AND DIAPERS. Registered July 27, 1926. JAMES A. HEARN & SON INC. Renewed July 27, 1946, to Hearn Department Stores, Inc., New York, N. Y., a corporation of New York. Classes 39 and 42.

215,794. **VICTOR.** TALKING MACHINES AND PARTS THEREOF AND TALKING-MACHINE RECORDS. Registered July 27, 1926. VICTOR TALKING MACHINE COMPANY, Camden, N. J. Renewed July 27, 1946, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Class 36.

215,827. **BABEX.** DEODORANTS IN POWDER, COMPACT, CREAM, OR LIQUID FORM. Registered July 27, 1926. A. P. BABCOCK COMPANY, New York, N. Y. Renewed July 27, 1946, to A. P. Babcock Company, Rutherford, N. J., a corporation of New York. Class 6.

216,028. **ALBINA BELLS.** WHEAT FLOUR. Registered Aug. 3, 1926. PORTLAND FLOUR MILLS CO., San Francisco, Calif. Renewed Aug. 3, 1946, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Class 46.

216,119. **"TASTEE" AND DESIGN.** WELSH RAREBIT. Registered Aug. 3, 1926. JOHN E. F. MAGEE COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed Aug. 3, 1946. Class 46.

216,181. **RED MULE.** FRESH CITROUS FRUIT. Registered Aug. 3, 1926. HOWARD WHITNEY, Redlands, Calif. Renewed Aug. 3, 1946, to Western Fruit Growers, Inc., Los Angeles, Calif., a corporation of California. Class 46.

216,320. **EBONY.** COAL. Registered Aug. 10, 1926. THE WEBB FUEL COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed Aug. 10, 1946. Class 1.

216,353. **ABERFOYLE.** STAPLE AND NOVELTY COTTON PIECE GOODS, SHIRTINGS, ARTIFICIAL SILK FABRICS IN THE PIECE, AND PIECE GOODS COMPOSED OF COTTON, SILK, ARTIFICIAL SILK, WOOL AND LINEN, AND MIXTURES OF THE SAME. Registered Aug. 10, 1926. ABERFOYLE MFG. CO., Chester, Pa., a corporation of Pennsylvania. Renewed Aug. 10, 1946. Class 42.

216,373. **KOOLMOTOR.** LUBRICATING OILS. Registered Aug. 10, 1926. CITIES SERVICE OIL COMPANY, Cleveland, Ohio. Renewed Aug. 10, 1946, to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware. Class 15.

216,382. **REPRESENTATION OF A YEOMAN AND CASTLE.** CANDIES. Registered Aug. 10, 1926. C. S. ALLEN CORPORATION, Brooklyn, N. Y. Renewed Aug. 10, 1946, to C. S. Allen Corporation, Webster, Mass., a corporation of New York. Class 46.

216,389. **"BONNY LASS" ETC.** CANNED FRUITS, CANNED VEGETABLES, AND CANNED BERRIES. Registered Aug. 10, 1926. FENNVILLE CANNING CO., Fennville, Mich. Renewed Aug. 10, 1946, to Michigan Fruit Canners, Inc., Benton Harbor, Mich., a corporation of Michigan. Class 46.

216,421. **REPRESENTATION OF RECTANGULAR DESIGN.** DYNAMOMETERS, THERMOMETERS, BEAM SCALES, EVEN-BALANCE SCALES, AND SPRING SCALES. Registered Aug. 10, 1926. JOHN CHATILLON & SONS, New York, N. Y., a corporation of New York. Renewed Aug. 10, 1946. Class 26.

216,512. **AMF.** MASTIC FINISH FOR HEAT-INSULATING MATERIAL. Registered Aug. 10, 1926. ARMSTRONG CORK & INSULATING COMPANY, Pittsburgh, Pa. Renewed Aug. 10, 1946, to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania. Class 12.

216,520. **"SILK".** COLD-ROLLED FLAT STRIP STEEL. Registered Aug. 10, 1926. THE STANLEY WORKS, New Britain, Conn., a corporation of Connecticut. Renewed Aug. 10, 1946. Class 14.

216,524. **"CARDINAL" AND DESIGN.** METAL HOUSEHOLD UTENSILS—NAMELY, TOGGERY RACKS, HAT AND TIE RACKS, SHOE RACKS, CAMPHOR-BALL HOLDERS, ELECTRIC-CORD SLACKTITE SPRINGS, AND AUTOMOBILE ACCESSORIES—NAMELY, SKID-CHAIN ADJUSTERS, ANTIRATTLER SPRINGS, CRANK-HOLDER SPRINGS, REPAIRMAN'S ASSORTED SPRINGS, SPRINGS FOR FORD VALVES AND STEERING EQUALIZER SPRINGS. Registered Aug. 10, 1926. THE CHAS. FISCHER SPRING Co., Brooklyn, N. Y., a corporation of New York. Renewed Aug. 10, 1946. Class 13.

216,533. **"NANCY HANKS" ETC.** CANNED FRUITS, CANNED VEGETABLES, AND CANNED BERRIES. Registered Aug. 10, 1926. FENNVILLE CANNING Co., Fennville, Mich. Renewed Aug. 10, 1946, to Michigan Fruit Canners, Inc., Benton Harbor, Mich., a corporation of Michigan. Class 46.

216,575. **"VENISE" ETC.** PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, BRILLIANTINE, EAU DE COLOGNE, LOTION FOR THE SKIN AND HAIR. Registered Aug. 17, 1926. ORIZA L. LEGRAND, INC., Wilmington, Del., and New York, N. Y. Renewed Aug. 17, 1946, to Oriza, Ltd., New York, N. Y., a corporation of New York. Class 6.

216,609. (P) **250.** COTTON PIECE GOODS. Registered Aug. 17, 1926. PACOLET MFG. Co., Pacolet and Spartanburg, S. C., and New Holland, Ga., a corporation of South Carolina. Renewed Aug. 17, 1946. Class 42.

216,630. **NEOPYRIDIUM.** PSEUDODIAMINOPYRIDINEAZOPHENYLORTHOCARBONIC ACID, ITS NORMAL ISOMER, AND THE ALKALINE SALTS OF THE NORMAL ACIDS DESIGNATED UNDER THE GROUP NAME "NEOPYRIDIUM". Registered Aug. 17, 1926. THE PYRIDIUM CORPORATION, New York, N. Y. Renewed Aug. 17, 1946, to Pyridium Corporation, Yonkers, N. Y., a corporation of New York. Class 6.

216,663. **K.** MEDICINAL TABLETS FOR HEADACHES, NEURALGIA, LA GRIPPE, RHEUMATIC PAIN, WOMEN'S ACHES AND ILLS, AND KINDRED AILMENTS. Registered Aug. 17, 1926. THE ANTIKAMNIA REMEDY COMPANY, St. Louis, Mo. Renewed Aug. 17, 1946, to Lafayette Drug Co., Inc., Jersey City, N. J., a corporation of New Jersey. Class 6.

216,671. **"HAPPINESS IN EVERY STEP".** HOSIERY. Registered Aug. 17, 1926. HERMAN MANTELL, New York, N. Y. Renewed Aug. 17, 1946. Class 39.

216,699. **"YELLOW BONNET" AND DRAWING.** CANNED FRUITS—NAMELY, PINEAPPLE, PEACHES, APRICOTS, CHERRIES AND PEARS; CANNED VEGETABLES—NAMELY, SPINACH, CORN, PEAS, BEETS, TOMATOES AND BEANS; CANNED SALMON, OLIVES, SANDWICH SPREAD COMPOSED OF SALAD DRESSING, GROUND OLIVES, PICKLES, AND SIMILAR INGREDIENTS; CONDIMENTS—NAMELY, PEPPER, FOOD-FLAVORING EXTRACTS, SPICES, PEANUT BUTTER, THOUSAND ISLAND DRESSING, MUSTARD, CATCHUP, PICKLES, DRIED FRUITS, TABLE SIRUP, VINEGAR, CANNED CHILE CON CARNE, CANNED SOUP, CANNED FRUIT BUTTER, CANNED JELLY, CANNED JAM, HONEY, OLIVE OIL, AND TEA. Registered Aug. 17, 1926. SPRINGFIELD GROCER COMPANY, Springfield, Mo., a corporation of Missouri. Renewed Aug. 17, 1946. Class 46.

216,705. **"TREMOL" AND DRAWING.** OINTMENTS, LOTIONS, POWDERS, AND BLOOD MEDICINE FOR THE TREATMENT OF BAD LEGS. Registered Aug. 17, 1926. NATIONAL COLLEGE OF HEALTH COMPANY, LIMITED, Broughton, Manchester, England. Renewed Aug. 17, 1946, to The National College of Health Limited, Salford, England, a corporation of the United Kingdom. Class 6.

216,769. **ILLUSION.** WOMEN'S, MISSES', AND CHILDREN'S SILK KNITTED UNDERWEAR. Registered Aug. 17, 1926. VAN RAALTE CO., INC., New York, N. Y., a corporation of New York. Renewed Aug. 17, 1946. Class 39.

216,782. **UP TO DATE.** MOUTH HARMONICAS AND ACCORDIANS. Registered Aug. 17, 1926. M. HOHNER, INC., New York, N. Y., a corporation of New York. Renewed Aug. 17, 1946. Class 86.

216,832. **"W M W" AND DESIGN.** SPINNING AND TWISTING RINGS. Registered Aug. 24, 1926. WHITIN MACHINE WORKS, Whitinsville, Mass., a corporation of Massachusetts. Renewed Aug. 24, 1946. Class 23.

216,906. **SHALIMAR.** PERFUMES. Registered Aug. 24, 1926. GUERLAIN PERFUMERY CORPORATION OF NEW YORK, New York, N. Y. Renewed Aug. 24, 1946, to The Guerlain Perfumery Corporation, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Class 6.

PLANT PATENTS

GRANTED JULY 9, 1946

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

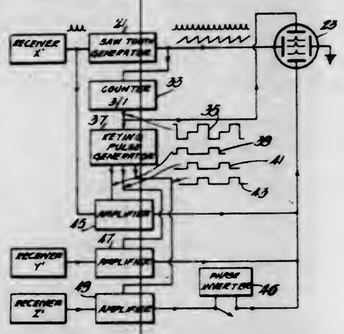
707
ROSE PLANT
Johan Hendrik . Kluis and Anthony Kluis, Boskoop, Netherlands; vested in the Alien Property Custodian
Application May 21, 1942, Serial No. 443,971
1 Claim. (Cl. 47—61)

The new variety of rose plant herein shown and described, characterized predominantly by the unusual color of the flowers.

PATENTS

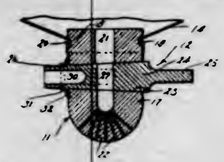
GRANTED JULY 9, 1946

2,403,429
RADIO BEACON SYSTEM
Earl I. Anderson, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 2, 1942, Serial No. 464,294
7 Claims. (Cl. 250—11)



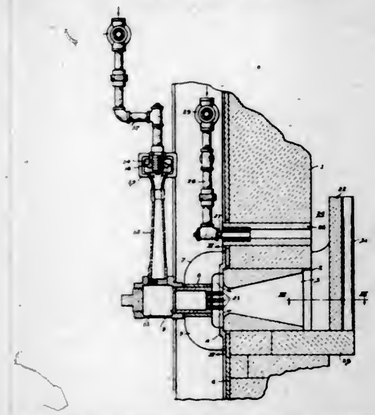
1. A system for indicating a position in response to arrival at said position of pulses transmitted in predetermined time relationship from a plurality of spaced transmitters, comprising receiver means, a cathode ray tube, means for initiating a sweep of the beam of said cathode ray tube in response to the arrival of each alternate pulse from one of the transmitters, and means for deflecting said beam transversely of said sweep in response to the arrival of pulses from each of the other transmitters.

2,403,430
PORTABLE SHOWER
Earle R. Andrews and Lionel H. Steans, Los Angeles, Calif.
Application February 26, 1943, Serial No. 477,210
1 Claim. (Cl. 4—151)



A portable shower bath device including a bag for receiving and containing a supply of water, a vertically disposed nozzle body, means tying the bag around the upper end portion of the body whereby the body is fixed directly to the lower end of the bag, the body having a vertical opening whose upper end is in communication with the interior of the bag, having nozzle orifices extending from the vertical opening to the lower end of the body and having a transverse opening intersecting said vertical opening at a point above said orifices, and a turnable valve member in the transverse opening having a spout portion projecting laterally from one side of the body and having a handle portion projecting from the opposite side of the body, the valve member having a transverse port adapted to be moved into and out of registration with said vertical opening to control the delivery of water to the orifices and having a longitudinal passage adapted to be moved into and out of registration with said vertical opening to control the delivery of water to said spout portion.

2,403,431
GAS BURNER
Harry Dobrin, Pittsburgh, Pa., assignor to Furnace Engineers, Inc., Pittsburgh, Pa.
Application September 20, 1944, Serial No. 554,876
7 Claims. (Cl. 158—7)

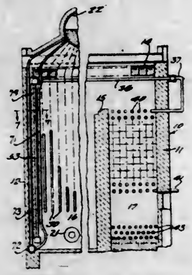


1. A gas burner comprising a burner block provided with a venturi having its ends open to atmosphere, a hollow jet member adjacent to but spaced from the inlet of said venturi and provided with a plurality of closely spaced parallel outlets facing said inlet, parallel jet tubes mounted in said outlets and extending forward to the Venturi inlet, said jet member being provided with an inlet disposed at substantially a right angle to its outlets, a Venturi mixing tube having its outlet connected to the inlet of said member, the inlet of said tube being adapted to receive primary air, means for supplying gas to said tube inlet, the mixture of gas and air issuing from said jet tubes drawing secondary air into said burner block venturi to promote combustion of said mixture therein, and means for directing raw gas into the burning mixture of gas and air issuing from the outlet of the burner block venturi.

2,403,432
VAPOR GENERATING APPARATUS
Pell W. Foster, Jr., Englewood, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application April 22, 1942. Serial No. 440,052
7 Claims. (Cl. 196—110)

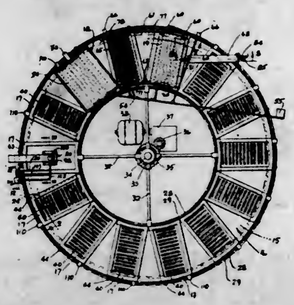
1. Vapor generating apparatus comprising a setting having enclosing walls including substantially vertically extending side walls, a substantially horizontally extending roof and a bottom, a vapor and liquid drum disposed above the roof, a partition extending substantially vertically in

the setting between the side walls to a point short of the roof dividing said setting into a heating chamber and a heat absorbing chamber, means in the lower portion of the heating chamber for producing a stream of products of combustion for flow through the heating chamber and thence through the heat absorbing chamber, a vapor generating section in the heating chamber comprising a row of spaced tubes extending substantially vertically along at least one side wall of the chamber, another row of spaced tubes extending substantially vertically adjacent the heating chamber side of the first-mentioned row of tubes and in spaced relationship to said side wall and the first-mentioned row of tubes, the first-mentioned row of tubes and said other row of tubes being connected in circulation with the drum, tubular members in the heat absorbing chamber,



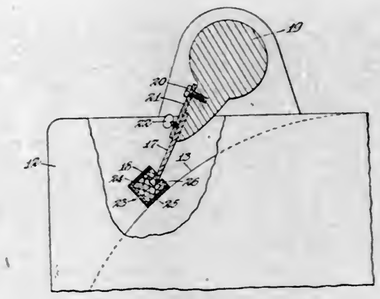
said tubular members being in communication with a source of oil supply, and other tubular members extending substantially horizontally across the top of the chambers closely adjacent the roof and along said at least one side wall of the heating chamber in the space between the first-mentioned row and said other row of spaced tubes and in radiant heat absorbing relationship to the products of combustion flowing through the chamber, said other tubular members being connected with said first-mentioned tubular members, the other tubular members extending along said side wall being disposed opposite the spaces between the tubes of said other row of tubes, the tubes of said other row of tubes being so arranged as to partially shade the other tubular members along said side wall from the stream of products of combustion and thereby reduce the heat absorption rate of said members.

2,403,433
SINTERING APPARATUS
Louis Gelbman, Yonkers, N. Y.
Application February 9, 1945, Serial No. 576,954
18 Claims. (Cl. 266—21)



1. In a rotary sintering apparatus having an annular-like suction box for connection with a suction fan for providing the air draft needed for sintering and an annular-like furnace unit rotative upon said suction box and having a plurality of radially disposed furnace pan sections, means for air sealing the open top of said suction box in relation with said furnace unit, comprising troughs for a sealing substance mounted about said suction box, and flanges mounted on said furnace unit and extending into said troughs.

2,403,434
ABRADING AND POLISHING IMPLEMENT
Kenneth C. Gulden, Gladstone, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application March 30, 1942, Serial No. 436,848
1 Claim. (Cl. 51—185)

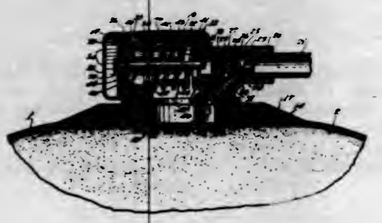


For use in apparatus for drying milk or the like which includes a rotatable drying drum and a scraping knife adapted to cooperate with said drum during the drying operation and extending along the length of said drum and mounted in adjustable relation to the surface thereof for removing dried milk from the same, and adapted to be moved away from said surface when desired, structure adapted for use in combination in said apparatus for abrading and polishing the surface of said drum comprising a rigid channel member of approximately the length of said drum, a strip of abrasive coated sheet material wrapped around said channel member and an elongate clamping bar fitting frictionally within said channel member and locking the edge portions of said abrasive strip, thus forming an abrasive assembly, said clamping bar having a central groove adapted to receive the edge of said scraping knife so that said scraping knife serves to support said abrasive assembly in contiguous relation with the surface of said drum in said apparatus during the cleaning and polishing of said drum surface.

2,403,435
PARASITICIDE COMPOSITION
Oscar H. Hammer, South Haven, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 30, 1943, Serial No. 474,176
5 Claims. (Cl. 167—39)

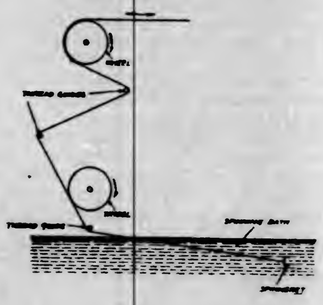
1. A coarsely subdivided, free-flowing fumigant composition including a dispersion of a volatile liquid fumigant in exploded mica, the average particle size of the mica carrier being at least 1/64 inch in diameter.

2,403,436
INFLATION DEVICE
Henry Ernest Helgis, West Orange, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application September 30, 1941, Serial No. 412,928
4 Claims. (Cl. 137—69.5)



4. A valve for filling a container with a fluid medium to a predetermined pressure, comprising casing means having an inlet, a restricted outlet for passing the medium from the inlet, a vent for the casing means, valve means for closing said vent, means for biasing said valve means closed with a predetermined pressure, additional means normally biasing said valve means closed with a force higher than said predetermined pressure, and means operative upon high pressure in said inlet for nullifying the effect of said additional biasing means.

2,403,437
PROCESS FOR MAKING ARTIFICIAL WOOL IMITATION FILAMENTS AND ARTIFICIAL WOOL FILAMENTS
Heinz-Horst E. Von Kohorn Zu Kornegg, New York, N. Y., now by judicial change of name Henry Von Kohorn; assignor, by mesne assignments, to Asher Blum, New York, N. Y.
Application February 25, 1939, Serial No. 258,498
15 Claims. (Cl. 18—54)



1. Process for the manufacture of artificial wool imitation filaments and the like, comprising making alkali-cellulose, ageing said alkali-cellulose for not more than 20 hours at a temperature below 17 degrees C., xanthating and dissolving said alkali-cellulose into viscose, storing said viscose at a temperature of less than 19 degrees C., for less than 30 hours, to give the viscose an ordinary ripeness, and a viscosity of at least 500 and spinning said viscose into a bath containing about 11% sulphuric acid, about 22% sodium sulphide, and at least 4% zinc sulphate to form filaments.

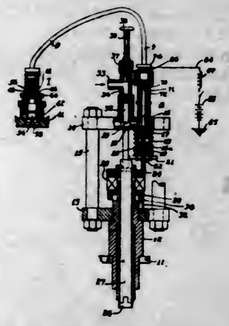
2,403,438
WELDING METHOD
Grover A. Hughes, Seattle, Wash.
No Drawing. Original application September 4, 1940, Serial No. 355,325. Divided and this application June 22, 1943, Serial No. 491,777
2 Claims. (Cl. 219—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method of end-welding to a metal body a stud of dead soft low-carbon steel having a shank and a substantially hemispherical head of greater diameter than said shank, comprising the steps of establishing between the head of said stud and the situs at which it is to be welded an electric arc of suitable strength to effect rapid local fusion of the metal of said body at said situs of a surficial area at least as great as the cross sectional area of said shank but less than the area of the base of said head and to a depth less than the radius of said head, thrusting said head into the said fused metal before said fused metal is gravitationally displaced, and permitting the heated metal to cool, whereby said stud is bonded to said body over an area greater than the said cross sectional area of said shank.

2,403,439
PROCESS FOR ISOMERIZING MONO-OLEFINS
Vladimir N. Ipatieff and George S. Monroe, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 19, 1943, Serial No. 499,252
8 Claims. (Cl. 260—683.2)

3. A process for shifting the position of the double bond in a mono-olefinic hydrocarbon which comprises contacting said mono-olefinic hydrocarbon at olefin isomerizing conditions with a catalyst comprising an aqueous solution of an acid selected from the group consisting of hydrogen chloride and hydrogen bromide, said aqueous solution having a pH above about 3 but less than 7.

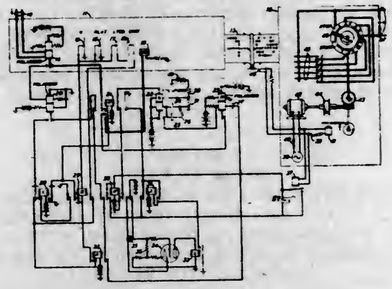
2,403,440
INTERNAL-COMBUSTION ENGINE
Arvid Jansson, Wilkinsburg, Pa., assignor of one-half to George L. Calig, Pittsburgh, Pa.
Application September 23, 1944, Serial No. 555,438
11 Claims. (Cl. 123—169)



1. A device for atomizing motive liquid supplied thereto under intermittently-applied pressures, and for exploding the same, comprising a tubular plug member adapted for connection to a cylinder of an internal combustion engine, an electrical contact member carried at the inner open end

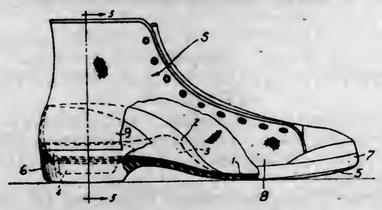
of the tubular member, a plunger movable axially in the tubular member, under pressure of the motive liquid, an atomizing element associated with the plunger, for atomizing the liquid supplied thereto and discharging it into the cylinder, an electrical contact member carried by the plunger and movable into engagement with the other contact member upon inward movement of the plunger, and means for automatically moving the plunger outwardly in the intervals between application of liquid fuel pressures, to effect the forming of an arc between the contact members and thereby explode the atomized liquid.

2,403,441
TELEGRAPH SYSTEM
Fullerton S. Kinkead, deceased, late of New York, N. Y., by Rita Smith Kinkead, administratrix, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 26, 1942, Serial No. 456,149
12 Claims. (Cl. 178—42)



1. In a telegraph system, a channel of telegraphic transmission, a recording instrument for recording permutation code signals received over said channel upon a recording medium, and apparatus for generating a plurality of predetermined code combinations for advancing said medium through said recording instrument and means jointly responsive to received signals and to the demand for said record medium from said recording instrument for conditioning for operation said apparatus for generating a plurality of predetermined code combinations.

2,403,442
SHOE
Calvin C. Klaus, Highland, Ill.
Application January 1, 1945, Serial No. 570,890
2 Claims. (Cl. 36—8.5)



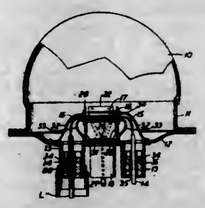
1. A shoe having an insole and counter formed integrally of a plastic material, a heel boss formed on the insole, an outsole having a heel part with a socket therein receiving the heel boss of the insole, and an upper confined between the insole and the outsole.

2,403,443
IMPALING INSTRUMENT
Emil D. Knab, Lake Parsipany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1945, Serial No. 572,692
1 Claim. (Cl. 164—86)



Washer making, impaling and mounting means comprising a set of normally adjacent but separable die blocks, means for mounting an elongated member with an end between the blocks, and a sheet of washer strip upon the die blocks, a hollow member for cutting, perforating, and impaling each washer upon a single stroke, means simultaneously operable to advance the hollow member against the blocks for cutting the washer, and means advancing with the hollow member to separate the die blocks whereby a washer is cut from the sheet, perforated and impaled upon the elongated member and advanced therealong in a single operation.

2,403,444
ELECTRON DISCHARGE DEVICE
Paul L. Hartman, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 395,948
11 Claims. (Cl. 250—27.5)

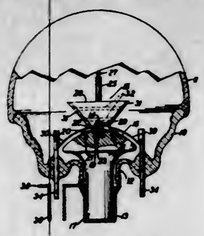


1. An electron discharge device comprising an enclosing vessel, a plurality of cooperative electrodes within said vessel, and a leading-in system for two of said electrodes including an outer coaxial line section and an inner section composed of spaced metallic strip members and having a characteristic impedance substantially the same as that of said coaxial line section.

2,403,445
ELECTRON DISCHARGE DEVICE
Joseph P. Laico, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,002
13 Claims. (Cl. 250—27.5)

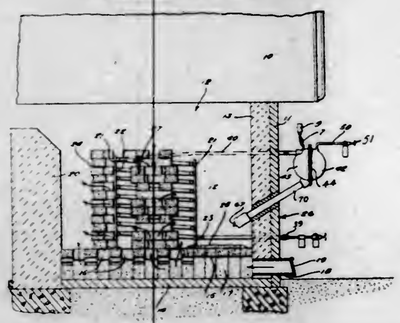
9. An electron discharge device comprising an elongated electrode, an anode having a central channeled portion in proximity to and in alignment with said electrode and having also flexible

strip portions extending laterally outwardly from said channeled portion, and rigid support mem-



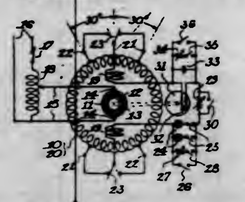
bers secured to the outer ends of said laterally extending portions.

2,403,446
HEAT GENERATING APPARATUS AND PROCESS
Edward J. Lamport, Washington, D. C., assignor to Lamport Hydro-Oil Furnace Company, Incorporated, a corporation of New York
Application July 2, 1935, Serial No. 29,499
Renewed November 10, 1938
7 Claims. (Cl. 158—56)



1. A heat generator comprising a combustion chamber, a nozzle for directing combustible fuel into said chamber, a fuel oil supply line connected to said nozzle, a cracking coil inserted in said oil supply line, a water supply, a steam generator within said chamber, a gas dispersion device within the cracking coil supplying heated gases directly to said coil, connecting conduits between the water supply, steam generator and gas dispersion device, and an enclosing imperforate casing without the coil, said device comprising a perforated casing within said coil.

2,403,447
ALTERNATING CURRENT MOTOR
Royal Lee, Milwaukee, Wis.
Application September 25, 1944, Serial No. 555,705
14 Claims. (Cl. 172—276)

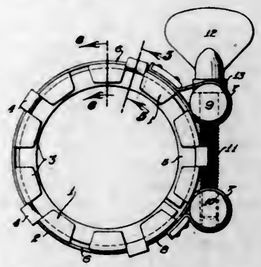


1. An alternating current commutator motor, comprising a stator member, a rotor member cooperating therewith, a primary winding on one of said members, a secondary circuit including a secondary winding on the other member, the winding on the rotor member being commuted, said windings having substantially aligned axes of polarization, and a third winding on one of said members connected in series with the other winding on the same member and having its axis of polarization angularly spaced from the axis of the series-connected winding approximately 30 electrical degrees.

2,403,448
PHONOGRAPH RECORD COMPOSITIONS
James S. Massarene, Oradell, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application August 1, 1942, Serial No. 453,205
2 Claims. (Cl. 260—16)

1. A sound-record composition for the production of tough, flexible, abuse-resistant grooved sound records, consisting of a mixture of 25–50% of thermoplastic cellulose aceto-propionate containing from about 14% to 17% acetyl and 30% to 33% propionyl groups, 24.75–45% of a resin comprising glycerol phthalate modified with 25–40% of benzoic acid, 15–30% of a plasticizer for the aceto-propionate which does not discolor or decompose at 400° F., and 1–4% of a hard wax.

2,403,449
HOSE CLAMP
Gerhard Meyer and Clay G. Woodmansee, Los Angeles, Calif., assignors to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application March 8, 1943, Serial No. 478,450
12 Claims. (Cl. 24—19)

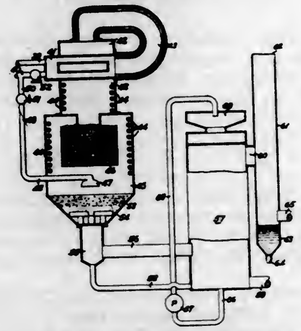


1. A hose clamp comprising: a flexible band adapted to be looped about a hose; a plurality of segmental shoe elements mounted on said band; a tension strap around said shoe elements and slidable thereon; and means for drawing the ends of said strap together to move said shoe elements radially inwardly and constrict said band.

2,403,450
SYNTHETIC RESINS AND MANUFACTURE THEREOF
Paul D. Morton, Riverview, and John F. Olin, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware
No Drawing. Application November 10, 1942, Serial No. 465,164
2 Claims. (Cl. 260—70)

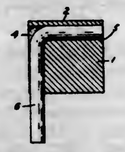
1. In the manufacture of condensation products by reaction of urea and urea derivatives with formaldehyde, the process comprising applying heat to condense together a mono-alkyl urea containing at least four substituent carbon atoms in the alkyl radical, urea, a substantial quantity of an unsubstituted monohydric aliphatic alcohol containing between 3 and 8 carbon atoms inclusive, and formaldehyde, the weight ratio of urea to alkyl urea being between 3:7 and 7:3, and the quantity of monohydric aliphatic alcohol used being in excess of the total quantity of urea and alkyl urea present in the reaction mixture.

2,403,451
METHOD FOR EXTRACTION OF SULPHUR FROM GASES
Samuel L. Nevins, Little Rock, Ark., Noel F. Albertson, Columbus, Ohio, and James S. Gilliam, Shreveport, La., assignors to Southern Acid and Sulphur Co., Inc., St. Louis, Mo., a corporation of Virginia
Application July 11, 1942, Serial No. 450,602
6 Claims. (Cl. 23—225)



1. The method of recovering sulphur in elemental form from gases containing hydrogen sulphide which comprises: mixing the gas with air; causing partial combustion of the mixture in a reaction chamber; bringing the hot combustion mixture into indirect heat interchange relationship with the mixture of incoming gases before combustion through a heat conducting means to heat the mixture of incoming gases to combustion temperature; passing the combustion gases through a contact mass; cooling the gases; adding to the gaseous mixture a further quantity of gas containing hydrogen sulphide; passing the enriched mixture over an oxidation catalyst; removing part of the sulphur produced to storage, and scrubbing the residual gas with another portion of the sulphur produced.

2,403,452
SAFETY PLUG
Stephen T. Novak, United States Army, Dayton, Ohio
Application August 25, 1942, Serial No. 456,028
2 Claims. (Cl. 88—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

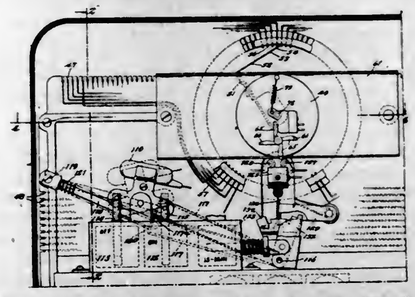


2. A safety plug and gun bore inspection device comprising a body adapted to be positioned at the breech end of a gun, said body having a longitudinal passageway formed therein with its axis substantially in alignment with the bore of the barrel, a laterally extending recess in said body with one end of said recess opening into said passageway, the other end thereof opening through the face of the body removed from and opposite said passageway, and a bent light transmitting and bending means positioned in and substantially filling said passageway and said recess for directing light from an exterior source into the bore of a gun, said last mentioned means being inherently effective to diffuse transmitted light to facilitate inspection of the bore.

2,403,453
MINERAL OIL COMPOSITION
Ferdinand Philip Otto, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 9, 1942, Serial No. 457,768
19 Claims. (Cl. 252—51.5)

1. An improved mineral oil composition comprising a mineral oil and in admixture therewith a minor proportion, sufficient to stabilize said oil against the deleterious effects of oxidation, of the reaction product obtained by the reaction of substantially one equivalent of a mono-hydroxy-aromatic compound, two equivalents of an aldehyde having more than one carbon atom and one equivalent of ammonia.

2,403,454
PROGRAM PRESELECTING AND CONTROL APPARATUS
Freeman H. Owens, New York, N. Y.
Application November 10, 1942, Serial No. 465,155
8 Claims. (Cl. 200—37)



1. In apparatus of the character disclosed, the combination of an insulating annular support having spaced radial notches in the rim of the same, conductors having contact portions disposed within said annular support and radially extending portions located in said notches, an insulating ring engaged over the radially extending portions of said conductors for holding the same in place on said insulating annular support, means for securing said insulating ring in such relation and a distributor brush rotating concentrically within said annular support in sequential engagement with said contact portions of said conductors.

2,403,455
PISTON
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan
Application April 9, 1945, Serial No. 587,357
3 Claims. (Cl. 309—4)

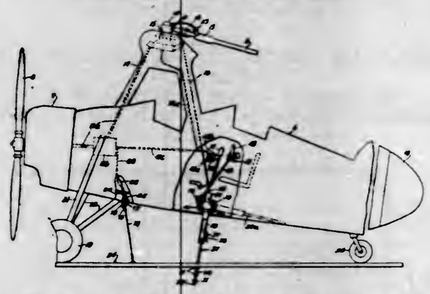
2. A ferrous metal piston having a peripheral ring belt area of less diameter than the adjacent

wall area of the piston, said ring belt area having a piston ring groove therein, said reduced piston ring belt area having a chrome plating of substantial thickness whereby the chrome plated lands at the sides of the piston ring groove are



approximately flush with the wall of the piston adjacent the ring belt area, the edges of the plating being flush with the edges of the ring groove and presenting wear resisting surfaces to the sides of a piston ring arranged in the groove.

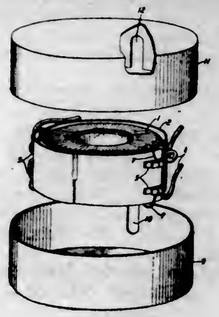
2,403,456
AIRCRAFT HOLD-DOWN DEVICE
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application July 17, 1941, Serial No. 402,769
14 Claims. (Cl. 244—110)



1. In an aircraft capable of substantially vertical descent to a landing and having landing elements supported from the craft with freedom for shock absorption movement in a generally vertical direction, a device carried by the aircraft for holding the aircraft down upon making a landing, said device comprising a strut extending downwardly from the aircraft to project into an aperture of a grillwork landing platform and incorporating relatively movable parts to provide for extension and contraction of the strut, a lower part of said strut having means for engagement with a grillwork element, and means automatically operative upon making a landing to contract said strut, thus drawing the aircraft tightly to the landing platform.

2,403,457
TERMINAL STRIP FOR INDUCTIVE DEVICES
John E. Ranges, East Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 7, 1942, Serial No. 429,936
2 Claims. (Cl. 175—21)

2. In an electrically inductive apparatus, an electrically conductive winding, a flat band of insulating material adapted to pass completely around the periphery of the winding and to have overlapping end portions, said band having transverse slits at opposite sides at points which permit interlocking of the band with itself whereby the band is held in position on said winding with both its end portions exposed and free, terminal leads for said apparatus and electrically conductive terminal elements at each end of the band,



said elements extending through the band and around the end margins of its free ends and an electrical connection from each terminal element to a point in the conductive winding and to a terminal lead.

2,403,458
SOLVENT EXTRACTION OF DRYING OILS
Olive Sue Ransom, New York, and Milton Zucker, New Rochelle, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application May 15, 1942, Serial No. 443,080
3 Claims. (Cl. 260—428.5)

1. Method for treating heat bodied polymerized vegetable and marine drying oils to obtain oil fractions therefrom of increased drying properties which comprises, mixing such oil with a substantially anhydrous organic solvent consisting essentially of about 3 to 5 volumes of ethanol to 1 volume of ethyl acetate, permitting the mixture of solvent and oil to separate into two layers, each layer containing an oily constituent, separating the two layers and removing the contained solvent from the layer containing a predominance of the polymerized constituents having increased drying properties.

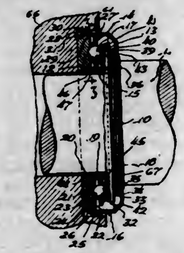
2,403,459
CHEMICAL PROCESS
Carl L. Rollinson, Dayton, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 29, 1943, Serial No. 512,257
7 Claims. (Cl. 23—174)

7. In a process for stabilizing sulfur trioxide, the step comprising adding thionyl chloride in an amount sufficient to stabilize the sulfur trioxide.

2,403,460
BALL BEARING
Joseph J. Rozner, Chicago, Ill., assignor to Aetna Ball Bearing Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 8, 1944, Serial No. 517,501
6 Claims. (Cl. 308—233)

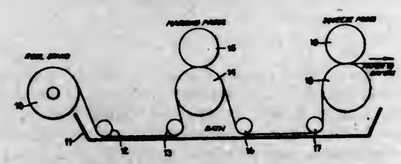
1. In a ball bearing the combination of a fixed race member adapted to be secured to a shaft or the like, said fixed race member being formed with a raceway for balls, a second movable race member provided with a raceway, a housing

member carried by said second race member and extending over said fixed race member, said housing including a cylindrical flange extending axially inwardly of the housing to close proximity with the fixed race, a plurality of balls located in said raceways and adapted to maintain the concentricity of said housing with respect to said fixed race member, and spiral means carried by



one of said members adjacent the inner surface of said cylindrical flange and acting upon the rotation of the relative parts of said ball bearing to cause escaping lubricant to be carried into said housing at the point where the flange is in proximity to the fixed race member, said spiral means comprising a plurality of ridges located on an outwardly extending cylindrical portion of said fixed race member.

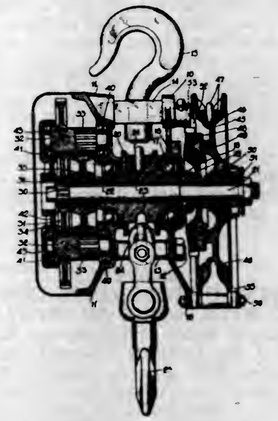
2,403,461
METHOD AND APPARATUS FOR PRODUCING DESIGNED PAPERS
Edward W. Samson, Erie, Pa., assignor to Hammermill Paper Company, Erie, Pa., a corporation of Pennsylvania
Application November 1, 1940, Serial No. 363,809.
23 Claims. (Cl. 8—7)



1. A method of producing a two-tone design on paper which comprises subjecting the paper to a combined pressing and rubbing action at selected points conforming with the desired design, the rubbing being effected by slight relative slippage between a surface carrying the desired design and a cooperating surface of the paper, said rubbing being so effected as not to roughen the surface of the paper perceptibly, and subsequently developing the design by the application of a dye to the surface of the paper.

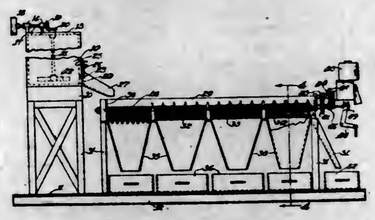
2,403,462
CHAIN HOIST
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application February 25, 1944, Serial No. 523,798
1 Claim. (Cl. 254—169)

In a hoist of the class described, a pair of main plates, means securing said plates to one another in spaced relation, a load sheave, a ball bearing on one of said plates for supporting one end of said load sheave for rotation, a pair of concentric cup-shaped surfaces formed in stepped relation on the other of said plates, a ball bearing nested into the larger of said stepped cup-shaped surfaces for supporting the other end of said load sheave, a second ball bearing nested in the smaller of said stepped cup-shaped surfaces and thereby retained against endwise movement in one direction, a drive shaft within a central bore of said load sheave and spaced therefrom, one end of said drive shaft supported



by said second ball bearing and having a shoulder for retaining said ball bearing against movement endwise in the opposite direction, a pinion on the other end of said drive shaft, a pair of intermediate shafts supported on said one plate, intermediate gears formed on said intermediate shafts and in driving engagement with said pinion, said intermediate shafts and gears through said pinion alone supporting for rotation the other end of said drive shaft, and means whereby said intermediate gears rotate said load sheave.

2,403,463
ART OF REDUCING METALS
Cornelia R. Seliger, Chicago, Ill., assignor to Henry Blech, Chicago, Ill.
Application June 12, 1942. Serial No. 446,789
15 Claims. (Cl. 83—91)



1. The method of reducing iron to particle form, including the steps of melting said iron, permitting said iron to cool to a semi-liquid doughy consistency in the temperature ranging substantially from 50° to 100° F. from its melting point while being puddled, maintaining the iron at that range of temperature while forcing the semi-liquid iron by impacts through a heated foraminous plate, and cooling the particle to solidification.

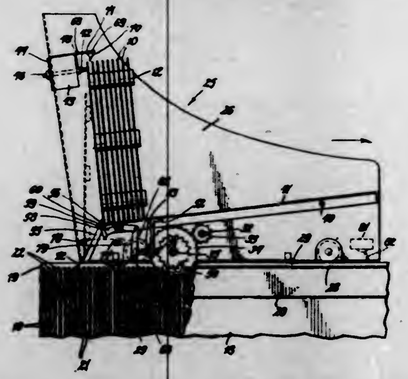
2,403,464
HYDROLYZED VINYL ESTER INTERPOLYMER FIBERS
Albert Faris Smith, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 22, 1942, Serial No. 451,891
17 Claims. (Cl. 8—115.5)

1. The method of improving oriented fibers of hydrolyzed interpolymers of ethylene with a vinyl organic ester in which from 1% to less than 45% of the carbon atoms of the polymer chain are attached to groups from the class consisting of hydroxyl groups and organic radicals hydrolyzable to hydroxyl groups, which comprises reacting said oriented fibers with a composition comprising essentially polyfunctional substances one mole each of which is reactive with a plurality of moles of diethylamine, said substances being selected from the group consisting of methylol and alkoxymethyl derivatives of uron, melamine, urea and diamides.

2,403,465
TREATMENT OF HYDROXYL-CONTAINING INTERPOLYMERS OF ETHYLENE
Donald Cargill Pease, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 18, 1942, Serial No. 469,460
11 Claims. (Cl. 260—42)

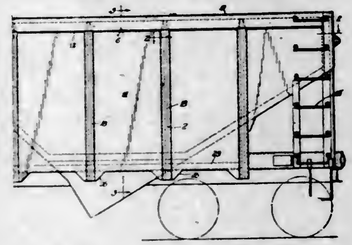
1. A method which comprises reacting a hydrolyzed interpolymer of ethylene and vinyl acetate, in which hydrolyzed interpolymer from 1% to less than 45% of the carbon atoms of the polymer chain are attached to groups from the class consisting of hydroxyl groups and acetate groups, with a compound having a plurality of methylene groups each of which is attached to nitrogen and oxygen, whereby to form a substantially insoluble product having a melting point substantially higher than that of said interpolymer.

2,403,466
APPARATUS FOR ASSEMBLING FINS AND THE LIKE
Robert C. Stutz, Buffalo, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York
Application September 12, 1944, Serial No. 553,745
18 Claims. (Cl. 214—8)



1. In a machine for fabricating finned structures and the like, a frame forming a fin receiving form, fin retaining means mounted on said frame and providing vertical spaced grooves for receiving edge portions of the fins, a carriage mounted to travel along said retaining means, a platform on said carriage for holding a stack of fins each in an upright position generally in alinement with said grooves and with an endmost fin arranged at one extremity of said platform, means on said carriage adjacent said extremity of said platform for successively splitting off said endmost fins from said stack and shifting them in a direction transverse of their faces to a position beyond said extremity of said platform comprising retaining finger means mounted on said carriage for movement into the space between the endmost fin and the next following fin, and means actuated in timed relation to the movement of said carriage and moving said finger means relative to said stack to enter said space and push the endmost fin to a position beyond the extremity of said platform, and means on said carriage providing a way permitting said split off fins to fall by gravity in a substantially vertical position into said vertical spaced grooves.

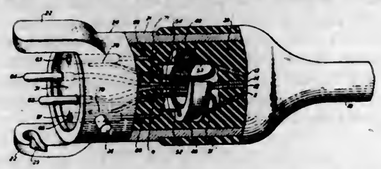
2,403,467
RAILWAY CAR WALL
James S. Swann, Homewood, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 27, 1943, Serial No. 488,693
15 Claims. (Cl. 105—409)



1. A wall for a railway car formed of a metallic plate with integral inwardly projecting U-shaped spaced apart posts extending from the original plane of the plate; a top chord formed integrally with said plate comprising upwardly and inwardly inclined portions extending between and merging into said posts; a vertical inner portion extending continuously between and over said posts; a horizontal portion extending outwardly therefrom and an outer vertical portion depending from the horizontal portion substantially flush with the original plane of the plate, the lower edge of said outer vertical portion of the top chord being welded to said plate in substantially the original plane thereof.

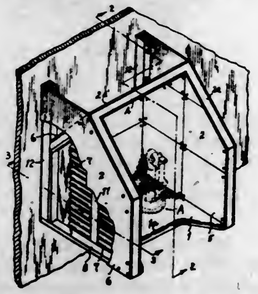
2,403,468
PROTECTION OF COMMUNICATION CIRCUIT ELEMENTS
Leland K. Swart, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 22, 1944, Serial No. 555,241
6 Claims. (Cl. 178—45)

1. A communication circuit including a circuit element subject to interruption of the circuit therethrough by currents of the nature of those resulting from lightning and having terminals, and protecting means connected in shunt to said element at said terminals and comprising a conductor separated from one of said terminals by a light layer of fibrous insulation to establish a gap capable of breaking down under excessive



voltages to pass current through said conductor in protection of said element, said element and protecting means being embedded in a mass of insulating material.

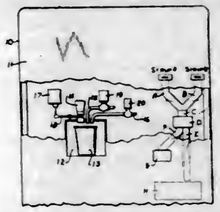
2,403,469
BOOTH
Thomas T. Tucker, Atlanta, Ga., assignor to Belle Weather Incorporated, Atlanta, Ga., a corporation of Georgia
Application March 30, 1943, Serial No. 481,091
5 Claims. (Cl. 20—3.5)



1. A portable booth of the class described comprising a base, parallelly related, vertically disposed side walls on said base, a rear wall mounted on said base in connected relation to the rear ends of said base and side walls, a top wall mounted on the upper ends of said rear wall and said side walls in connected relation thereto, the front end of said top wall terminating at a point inwardly of the front ends of said side walls, said side and top walls forming an opening at the front end of said base, each of said walls consisting of a rigid non-porous outer member, a relatively thick, porous, non-vibratory inner member for limiting the passage of sound waves therethrough, spaced supporting elements between said members, means for securing said members to said elements and sound absorbing material intermediate said members throughout the spaces between said elements.

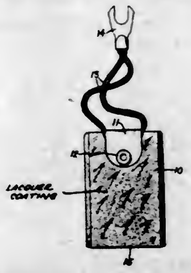
2,403,470
DISPENSING APPARATUS
Robert H. Tull, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 9, 1945, Serial No. 577,010
5 Claims. (Cl. 194—13)

1. In a beverage dispensing system of the type wherein one of a plurality of syrups is dispensed into a cup together with a common diluent at a common dispensing station at each operation of the system, and which dispensing operation is initiated by the insertion of a coin, the combination of: a plurality of syrup selecting chutes, means associated with each of said chutes and actuated by the passage of the coin through the chute for conditioning the system for dispensing the selected syrup, a common chute communicating with the plurality of syrup selecting chutes,



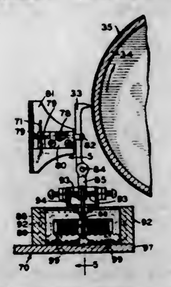
and means associated with the common chute for initiating a cycle for dispensing the selected syrup and the common diluent.

2,403,471
ELECTRICAL CONTACT BRUSH
Charles G. Van Brunt, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 21, 1941, Serial No. 399,125
14 Claims. (Cl. 171—325)



1. An electrical contact element including a porous block of finely divided electrically conductive material, at least a portion of said block being impregnated with a polyhydric alcohol solution providing a lubricant for the contact surface of said element, and a coating on the sides of said block, said coating being impenetrable by said impregnant.

2,403,472
APPARATUS FOR RECORDING ELECTRICAL SIGNALS
James N. Anderson, North Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application October 2, 1942, Serial No. 460,530
7 Claims. (Cl. 234—70)



1. Apparatus for recording on a record sheet, comprising a platen for supporting said sheet during recording operations, means including a recording stylus for causing marking impacts in-

termittently to be applied to said record sheet to mark the same in accordance with received marking and spacing signals representative of the subject matter to be recorded, said platen and stylus being mounted so as to enable relative movement between them alternatively to position them into marking position and out of marking position with respect to the record sheet, mechanical driving means for vibrating said stylus in a direction towards and from the record sheet to cause the same to impinge upon the record sheet with a predetermined constant pressure which is independent of the signal level of the received marking signals, and means responsive to said received marking and spacing signals for effecting said relative movement between the platen and the oscillating stylus selectively to position at least one of them into and out of marking position to produce a record corresponding to said received signals.

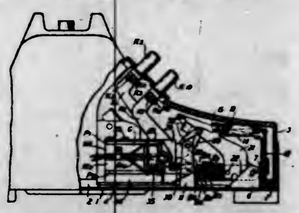
2,403,473
THERAPEUTIC COMPOSITIONS
Stefan Ansbacher, Rockville Centre, N. Y., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 21, 1944, Serial No. 559,827
4 Claims. (Cl. 167—65)

1. A therapeutic composition in dosage-unit form comprising a carrier of the solid type and as the added active medicament not less than about 50 milligrams per dosage unit of a compound of the group consisting of para-aminobenzoic acid and water-soluble salts thereof.

2,403,474
ADDITIVE FOR LUBRICANTS
John D. Bartleson and Franklin Veatch, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 10, 1944, Serial No. 558,079
17 Claims. (Cl. 252—32.7)

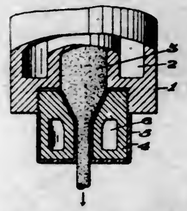
1. An additive for lubricants to improve their characteristics, comprising a metal derivative of a reaction product of a sulfide of phosphorus and an organic amine.

2,403,475
TELEPHONE SYSTEM
Henry M. Bascom, New York, N. Y., and Francis A. Hubbard, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1943, Serial No. 472,202
7 Claims. (Cl. 179—90)



1. In a telephone system in which the selection of wanted lines is effected by transmitting over a line extending from a calling station impulse combinations made up of a plurality of frequencies within the voice frequency range, an impulse generator at the calling station comprising a plurality of differently tuned reeds vibratable in an electromagnetic field, a plurality of keys each having a down-stroke and an up-stroke movement and means controlled by said keys for selectively operating said reeds for causing the transmission of one impulse of a combination during the down-stroke of a key and for selectively operating said reeds for causing the transmission of the remaining impulse of a combination during the up-stroke of the operated key.

2,403,476
EXTRUSION APPARATUS
Kenneth L. Berry, Hockessin, and Joseph R. Downing, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 8, 1944, Serial No. 548,536
7 Claims. (Cl. 18—8)



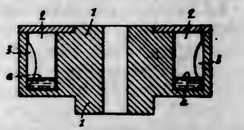
1. An extrusion die having a surface to be contacted by the material to be extruded, consisting essentially of a tetrafluoroethylene polymer.

2,403,477
SHOE FOR DIVERS
Jack Browne, Milwaukee, Wis., assignor to Diving Equipment and Supply Company, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application January 8, 1945, Serial No. 571,769
5 Claims. (Cl. 36—2.5)



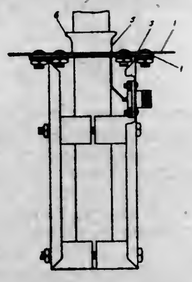
1. A shoe for a diver comprising an upper; a wooden sole to which the upper is secured; and a heavy metal tread fixed to the wooden sole.

2,403,478
DAMPING FLYWHEEL
Henri Louis Burnat, Paris, France; vested in the Alien Property Custodian
Application February 1, 1943, Serial No. 474,319
In France June 25, 1941
6 Claims. (Cl. 74—572)



1. A fly-wheel of variable inertia comprising a body symmetrically disposed about a vertical axis of rotation and provided with an annular cavity extending axially and circumferentially about said axis, a plurality of spaced plates extending radially inwardly from the periphery of said cavity, and having the inner edges thereof terminating equidistantly from said axis to thereby form weirs, and a fluid material partially filling said cavity and adapted to be moved by centrifugal force against said cavity periphery when the body is rotated, each of said plates having an opening therein disposed substantially in spaced relation to the bottom of said cavity, at least a major portion of said opening being disposed above the liquid level when the body is stationary, whereby the liquid will be permitted to flow over the weirs and through the openings at normal working speeds of the fly-wheel.

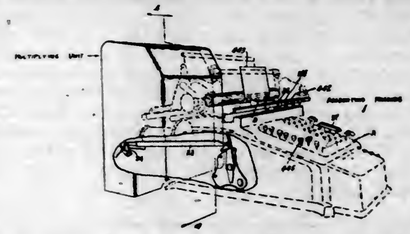
2,403,479
ANTENNA MOUNTING
Harvey A. Bryers, Dayton, Ohio
Application July 1, 1944, Serial No. 543,179
4 Claims. (Cl. 174—151)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination in a mounting for stub antennas, a pair of attaching plates provided with aligned antenna openings therethrough of appreciably greater area than and similar contour to the corresponding cross-sectional area of a stub antenna with which said mounting is to be used and a sheet of insulating material clamped between said plates and extending inwardly beyond the edges of said openings, said sheet having an elastic area extending adjacent said openings and being provided with an opening therethrough substantially concentric with and of similar contour to said openings through said plates and of appreciably less area than the cross-sectional area of a stub antenna with which said mounting is to be used, whereby, in assembled relation, said sheet closely and elastically fits said stub antenna.

2,403,480
MULTIPLYING UNIT
Hugh L. Clary, Hillsborough, and William H. Petit, Los Angeles, Calif., assignors, by direct and mesne assignments, to Clary Multiplier Corporation, Los Angeles, Calif., a corporation of California
Application June 26, 1939, Serial No. 281,082
12 Claims. (Cl. 235—60)

10. In a computing machine, multiplying circuit devices having predetermined contacts representative of the partial products of two unidigit factors, movable brushes for selecting contacts representative of said partial products, means for imparting motion to the brushes which is representative of one digit of a multiplicand and one digit of a multiplier so as to move said brushes to contacts representative of the partial product of said unidigit factors, a denominational distributor having contact positions representative of decimal values and movable brushes for selecting decimal value positions, means for moving the brushes to the decimal value positions, means for establishing circuits through said mul-

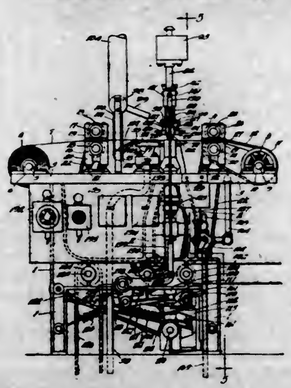


tiplying circuit devices and said denominational distributor, an accumulator operatively controlled by said circuits to give a final product, and means operably associated with the accumulator for recording the final product.

2,403,481
METHOD OF CONCENTRATING IRON ORE
Julius Bruce Clemmer and Carl Rampacek, Tuscaloosa, Ala., assignors to the United States of America, as represented by the Secretary of the Interior
No Drawing. Application February 9, 1945, Serial No. 576,996
7 Claims. (Cl. 209—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for beneficiating calcareous iron ores containing siliceous gangue materials which comprises addition to an aqueous pulp of the comminuted ore a quantity of caustic alkali to establish a pulp pH at least as alkaline as pH 10, and a lignin sulphonate, together with an anion active collecting agent selected from the class consisting of higher fatty acids, resin acids, and mixtures of fatty and resin acids, and soaps thereof, and then subjecting said pulp to agitation and aeration whereby siliceous gangue is floated and beneficiated iron ore is depressed and recovered.

2,403,482
METHOD AND APPARATUS FOR WRAPPING ARTICLES
William S. Cloud, Wilmette, Ill.
Application July 2, 1941, Serial No. 400,854
17 Claims. (Cl. 18—19)



1. An apparatus for enclosing articles in elastic sheet material, including means for advanc-

ing a web of said material, means for heating predetermined portions of said web, means for suspending predetermined portions of said web over a plurality of openings, means for extending the heated portions of said web through said openings in pocket-like form, means for retaining said pocket-like extensions in said web after withdrawal of the pocket forming means, means for depositing in said pocket-like extensions the articles to be enclosed, means for turning said pocket-like extensions and the articles contained therein so as to substantially close said pockets about the articles to be wrapped, and means for severing the surplus web material from the wrapped articles.

2,403,483

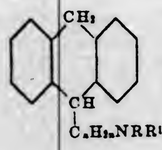
TERTIARY AMINO DERIVATIVES OF DIHYDRO-ANTHRACENE

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois

No Drawing. Application October 7, 1943, Serial No. 505,355

5 Claims. (Cl. 260—570.8)

1. New compositions of matter comprising tertiary amines of the formula:



wherein n stands for an integer between 1 and 4, and R and R^1 each represent unsubstituted alkyl groups containing not more than four carbon atoms.

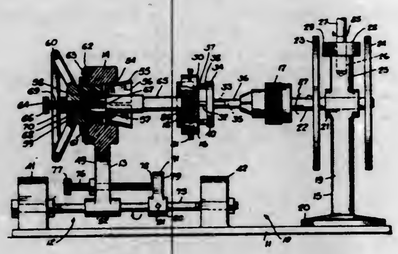
2,403,484

TAPPING AND THREADING MACHINE

Handel Ashworth, Baldwin, N. Y.

Application November 4, 1943, Serial No. 508,942

2 Claims. (Cl. 10—136)



1. A machine of the class described for threading a work piece comprising, a carriage, a head forming a part of said carriage and having a bore therein, a collet associated with said head and being seated in said bore, a wheel having a hub to operate said collet for adjusting said work piece in said collet, a screw cutting tool, reversible driving means for rotating said screw cutting tool in either direction, means to mount said carriage for movement toward and from the screw cutting tool, and adjustable stop means to limit the movement of the carriage toward the screw cutting tool.

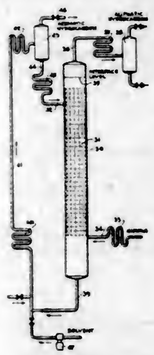
2,403,485

SEPARATION OF AROMATIC HYDROCARBONS FROM HYDROCARBON MIXTURES

Harold V. Atwell, Beacon, N. Y., and Du Bois Eastman, Port Arthur, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 8, 1941, Serial No. 382,328

6 Claims. (Cl. 196—13)



4. A continuous process for effecting fractional separation of oil mixtures by extraction with a solvent in which a component of said mixture is substantially soluble while remaining components are substantially insoluble therein at an elevated temperature and pressure, which comprises continuously maintaining a substantial body of said solvent within the tower under said elevated temperature and pressure, continuously injecting a stream of said oil mixture to the lower portion of said tower to rise upwardly therein through the body of solvent, continuously withdrawing a stream of solvent and dissolved oil from the lower portion of said tower at a point below the point of oil injection, heating the withdrawn stream without substantial reduction in pressure to a temperature sufficient to reduce its density, discharging the so-heated stream into a vertically disposed conduit having a discharge outlet at an elevation sufficiently high to permit flow by gravity from said discharge outlet into the upper portion of the tower, discharging the heated stream without substantial reduction in pressure from said outlet into a cooling zone, cooling the discharged fluid and, without substantial reduction in pressure, effecting separation between dissolved oil and solvent as a result of said cooling, discharging the separated oil, reheating the substantially oil-free solvent without substantial reduction in pressure, and returning the reheated solvent to the upper portion of said tower by gravity flow.

2,403,486

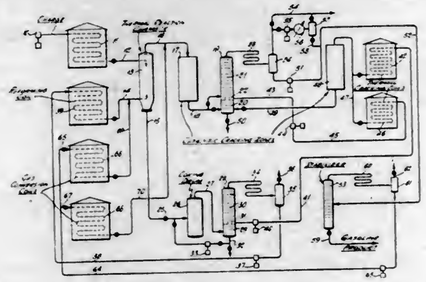
COMBINATION CATALYTIC AND THERMAL CONVERSION

Joseph Mason Barron, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 19, 1944, Serial No. 568,886

6 Claims. (Cl. 196—49)

1. In the combination thermal and catalytic cracking of hydrocarbon oils for the unitary processing of a charging stock obtained from crude petroleum and containing both residual and gas oil components thereof, the process that comprises introducing said charging stock to a reaction chamber, passing lower boiling hydrocarbons through a heating zone wherein they are heated to a cracking temperature, directing the resultant heated products to said reaction chamber to subject the residual stock to cracking and vaporization therein, passing separated vapors from the reaction chamber to a catalytic cracking zone wherein such fractions are subjected to catalytic cracking, withdrawing residual products from the reaction chamber and subjecting them to coking, fractionating vapors evolved from the coking operation to separate lighter fractions



from higher boiling fractions, directing said lighter fractions to the aforesaid heating zone for conversion, subjecting said higher boiling fractions to cracking temperature with sufficient time of reaction to effect extensive thermal conversion including the cracking of olefins and paraffins, subjecting the resultant thermally cracked products of reduced paraffinicity to catalytic cracking and fractionating the products produced in the catalytic cracking operations to recover the catalytically cracked gasoline.

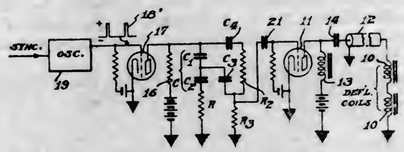
2,403,487

CATHODE-RAY DEFLECTION CIRCUIT

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 30, 1941, Serial No. 404,613

6 Claims. (Cl. 315—27)



1. A cathode ray deflecting circuit comprising deflecting coils having distributed capacity thereacross and having resistance effectively in series therewith, a vacuum tube having a grid circuit and having a plate circuit coupled to said coils to supply deflecting current therethrough, a capacitor and a resistor in series, means for producing a sawtooth voltage wave across said capacitor and a voltage pulse across said resistor, means comprising a branch circuit connected across said capacitor and resistor for differentiating the voltage appearing across said resistor and at least a portion of the voltage appearing across said capacitor, means for adding said differentiated voltage to at least a portion of the voltage appearing across said capacitor, and means for impressing said added voltages upon said grid circuit.

2,403,488

EXPLOSIVE CARTRIDGE ASSEMBLY

Thomas F. Bennett, Joplin, Mo., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application May 1, 1945, Serial No. 591,304

4 Claims. (Cl. 102—24)



1. A threaded explosive assembly comprising a plurality of threaded explosive cartridges held in end-to-end abutting relationship by a plurality of threaded sleeves in end-to-end abutting relationship, and at least one friction thread disposed on each cartridge and extending throughout the length of the cartridge in frictional engagement with the interior surface of each sleeve in threaded engagement with said cartridge.

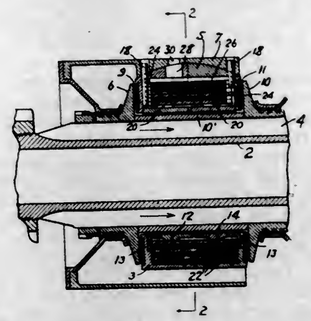
2,403,489

BEARING CONSTRUCTION FOR TURBINES OR THE LIKE

Rudolph Birmann, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia, a corporation of the United States of America

Application August 29, 1941, Serial No. 408,787

7 Claims. (Cl. 308—26)



1. In combination, a high speed shaft, a casing, a bundle of nested sleeves mounted in the casing and mounting said shaft, adjacent surfaces of sleeves of said bundle having localized regions of contact with each other and being separated between such regions of contact to provide capillary oil spaces, the regions of contact of the inner and outer surfaces of each sleeve being substantially out of radial alignment, so that relative flexures of adjacent sleeves modifying the thickness of said capillary oil spaces may occur between their regions of contact with each other due to pressures exerted at the regions of contact on their non-adjacent surfaces and means for supplying oil to said capillary spaces.

2,403,490

REMOTE CONTROL MECHANISM

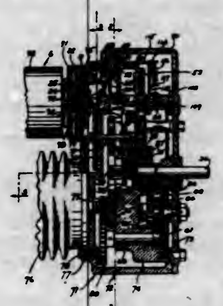
William A. Black, Montclair, N. J., assignor, by mesne assignments, to The W. L. Maxson Corporation, New York, N. Y., a corporation of New York

Application February 25, 1941, Serial No. 380,475

13 Claims. (Cl. 74—388)

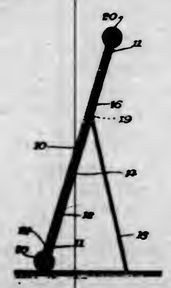
1. In a remote control mechanism which includes a primary control member at a transmit-

ting or control station and a controlled member at a receiving station which is required, when under the influence of the remote control mechanism, to be maintained in phase with the primary control member subject to fine tolerances of error, in combination, a pair of synchronizers each comprising rotors at the transmitting and receiving stations, respectively, and means for causing the receiving rotor of each synchronizer to seek and maintain phase correspondence with the transmitting rotor of the same synchronizer, subject to a lag of limited extent, means for driving the transmitting rotors from the primary control member at speeds bearing a fixed relation to one another, the rotor of the fine synchronizer at a speed considerably in excess of the speed of the



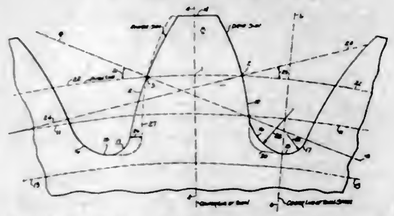
rotor of the coarse synchronizer, means for normally operating the controlled member at the receiving station under the control of the fine synchronizer, and means responsive to an out of phase condition of the controlled member and the primary control member corresponding to more than one-half turn of the transmitting and receiving rotors of the fine synchronizer relative to one another, to cause the fine synchronizer to be temporarily disabled and superseded in its controlling function by the coarse synchronizer and then to be reestablished in its controlling function when the coarse synchronizer has reestablished synchronism of the controlled member relative to the primary control member within a limit corresponding to less than a half turn of the fine synchronizer rotors relative to one another.

2,403,491
PICTURE FRAME
Frank D. Bogia, Clifton, N. J., assignor to Grant Positype Corporation, New York, N. Y., a corporation of New York
Application November 13, 1943, Serial No. 510,216
2 Claims. (Cl. 40—152.1)



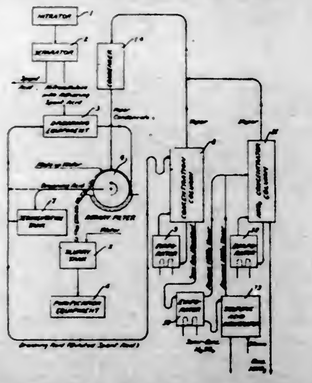
1. A picture frame in the form of an easel, comprising a back, a hinged cut out portion on the back to permit the same to stand upright, a picture applied to the back, a mat applied to the picture, a protective covering over the mat and means to secure the several elements together comprising split tubular spring clips to engage selected areas of the edges of the members, said back being provided on its rear surface with grooves to receive one edge of the spring clips.

2,403,492
GEAR
Francis H. Boor, Lafayette, Ind., assignor to Fairfield Manufacturing Company
Application April 14, 1944, Serial No. 530,997
5 Claims. (Cl. 74—462)



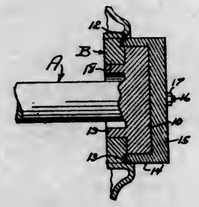
1. A gear wheel having a plurality of teeth, each of said teeth being unsymmetrical and having sides describing involute profiles defined from base circles, one of said sides being defined from a base circle of smaller diameter than the other, the side defined from the base circle of smaller diameter, when in contact with a similar side of a tooth of another gear, having a line of action inclined at a greater angle to a pitch line of the gears than the line of action of the side of said tooth defined from the larger of said base circles, said sides of adjacent teeth being separated by a bottom land portion, said bottom land portion being unsymmetrical with respect to a radial line of the gear, portions of said bottom land being defined from different radius centers, and the longer of the radii defining the profile line of the bottom land area adjacent to the side of said tooth having the larger of said lines of action.

2,403,493
MANUFACTURING NITROCELLULOSE
Frederick J. Bouchard, Radford, Va., Robert C. Gunness, Chicago, Ill., and Raphael L. Stern, South River, N. J., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application May 19, 1943, Serial No. 487,558
12 Claims. (Cl. 260—220)



1. In a procedure for manufacturing nitrocellulose in which cellulose is nitrated in an excess of mixed acid and the resulting nitrocellulose is separated from supernatant spent mixed acid of above about 75% total acid concentration by weight, drowned to reduce the concentration of acid wetting the nitrocellulose rapidly to below concentrations causing substantial denitration, and then purified, a process which comprises carrying out the drowning of the said separated nitrocellulose wet with spent acid by mixing it with a quenching volume of aqueous mixed nitric and sulphuric acid having a concentration of about 10 to about 25% by weight of total acid, said volume being sufficient to reduce the concentration of the spent acid on and in the nitrocellulose to between about 10% and about 25% substantially instantaneously, removing the drowned nitrocellulose from the drowning acid, and evaporating nitric acid from a portion of the drowning acid.

2,403,494
REAR HUB AND AXLE ASSEMBLY FOR FLOATING AXLES
Edward J. Bourgeois, Burlington, Vt.
Application May 6, 1944, Serial No. 534,458
3 Claims. (Cl. 287—53)



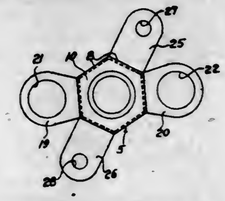
1. An assembly of the kind described, comprising a floating axle having a cross-head formed thereon, said cross-head having straight side walls and curved end walls, inwardly extending segmental flanges carried by the inner face of the cross-head intermediate the axle and the outer end of said cross-head, a hub having a countersink correspondingly shaped to said cross-head to receive the same, and a cap carried by the axle and engaging the hub.

2,403,495
INSECTICIDE
Charles Verne Bowen, Bethesda, Md., assignor to the United States of America, as represented by the Secretary of Agriculture
No Drawing. Application February 10, 1942, Serial No. 430,247
2 Claims. (Cl. 167—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for controlling insects comprising applying 1,4-diphenylthiosemicarbazide to the habitat of the insects.

2,403,496
COMBINED THREADED FASTENER AND ANCHOR NUT
Charles B. Breedlove, Detroit, Mich.
Application November 17, 1943, Serial No. 510,626
2 Claims. (Cl. 85—32)

1. A threaded fastener comprising a shell member having a polygonal cavity, an inwardly extending continuous annular flange at one end of said shell member, a shelf-locking thread-gripping washer mounted in said shell seated against said flange, a nut snugly fitted in said cavity, combined lockwasher and nut-retaining wing extensions formed integral with said shell member and projecting from diametrically opposite walls thereof adapted to underlie said nut with their bolt-receiving openings in registry and arranged in overlapping relation whereby to receive a bolt



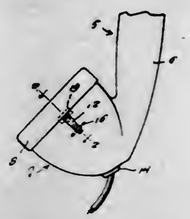
and prevent separation of said shell and nut when the fastener is assembled on a bolt member, and other wing extensions formed on said shell member projecting from opposite sides thereof to provide anchor lug members, said shell member being of a size equal to the over all size of the nut and washer to confine and house said nut and washer and to retain the bores of the nut and washer in axial alignment.

2,403,497
AUTOMATIC STOPPING OF LOOMS
Richard Edwin Bridge, South Harrow, England
Application May 1, 1945, Serial No. 591,345
In Great Britain March 20, 1945
4 Claims. (Cl. 139—204)



4. For fitting into a bore in the side of a shuttle for the purpose of effecting the automatic stopping of a loom, a tubular casing in which are pivotally mounted a spring influenced hook-like member, a pair of interconnected tripping pieces and a spring influenced latch piece, the hook-like member being normally held in a "set" position by the spring influenced latch piece, which is movable with one of said tripping pieces.

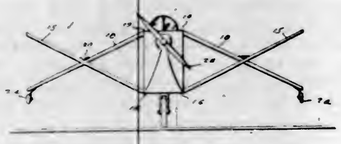
2,403,498
CUTOUT DEVICE FOR TELEPHONE TRANSMITTERS
Gerald E. Brittingham, Ontario, Oreg.
Application July 25, 1944, Serial No. 546,480
3 Claims. (Cl. 179—158)



1. In a telephone instrument having a transmitter of a type adapted to be temporarily laid on a supporting surface when in use, a transmitter housing either side of which is adapted to rest on said surface when so laid thereon, a transmitter circuit within said housing, and a switch

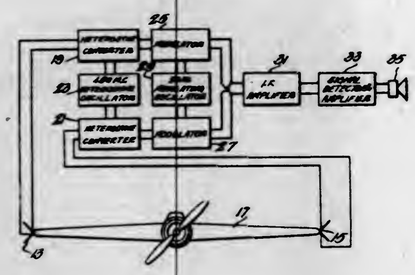
comprising a pair of switch contacts mounted within the housing and connected in said circuit and an outwardly projecting spring pressed switch element having a bridging member, normally electrically bridging, said contacts, said switch element being pivotally mounted to project through an opening formed in one side of said housing sufficiently to engage said supporting surface when the transmitter is laid on its side thereon and be thereby pressed far enough inwardly to disengage said bridging element from the contacts and open the transmitter circuit until the transmitter is raised from the supporting surface.

2,403,499
CROSS WING AIRPLANE CONSTRUCTION
Warren F. Carlson, New Windsor, Ill.
Application April 4, 1944, Serial No. 529,475
5 Claims. (Cl. 244—45)



1. In an airplane having a fuselage with the usual propelling and steering device; in combination a plurality of sustaining surfaces along the sides of the fuselage, consisting of pairs of flat wing sections arranged successively in upwardly and downwardly alternating slanting directions from the sides of the fuselage and said wing sections having fixed securing means, respectively, at the top and bottom of the fuselage, two adjacent pairs of wing sections making an X-formation and fixtures at the points of intersection of such adjacent pairs of wing sections.

2,403,500
SYSTEM FOR AND METHOD OF AIRCRAFT RADIO COMMUNICATION
Wendell L. Carlson, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 22, 1941, Serial No. 416,022
13 Claims. (Cl. 250—6)

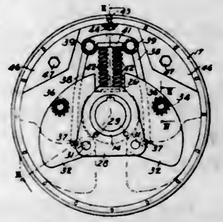


1. The method of communicating between a fixed station and a moving aircraft station which includes radiating radio waves including circularly polarized components from said fixed station, continuously receiving said waves at said aircraft station, and indicating the reception of said waves from all directions of arrival and at substantially all attitudes of said aircraft as a single communication signal.

2,403,501
ALKYLATION PROCESS AND PRODUCTS PRODUCED THEREBY
Louis A. Clarke, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 4, 1942, Serial No. 429,471
2 Claims. (Cl. 260—683.4)

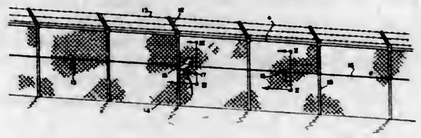
1. The method of producing a superior alkylate in continuous isobutane alkylation in the presence of an alkylation catalyst consisting essentially of hydrogen fluoride as its active ingredient, which comprises employing an isobutylene alkylating agent substantially in the absence of other olefin alkylating agents, continuously feeding in liquid phase a premixed hydrocarbon charge consisting essentially of isobutane and the isobutylene alkylating agent substantially free from other olefin alkylating agents in a molar ratio of isobutane to isobutylene of at least 4:1 into an enlarged alkylation reaction zone containing a large agitated body of finely divided emulsion of liquid hydrocarbons and hydrofluoric acid catalyst, maintaining an isobutane concentration in the hydrocarbon phase of the reaction mixture in said zone of at least 50% by volume, maintaining the temperature of the reaction zone within the range of 60–80° F., maintaining a ratio of from one to two volumes of hydrofluoric acid catalyst per volume of total hydrocarbons in the reaction zone, recirculating the emulsion in said reaction zone to provide an isobutane to isobutylene molar ratio at the point of initial contact of the isobutylene alkylating agent with the hydrofluoric acid catalyst substantially in excess of 100:1, controlling the hydrocarbon feed rate to provide a space velocity of 0.6 to 6.0 based on total hydrocarbon feed, continuously removing a small stream of the reaction mixture from the large body in the reaction zone to a settling zone where hydrocarbon phase separates from catalyst phase, continuously removing a stream of the hydrocarbon phase from said settling zone, and debutanizing said stream of hydrocarbon phase to obtain a total debutanized alkylate having an octane content of at least 80% by volume, a 2,2,4-trimethylpentane content of at least 50% by volume, and a C. F. R. M. octane number of at least 96.

2,403,502
SCREEN VIBRATING MECHANISM
Eugene B. Cook, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 6, 1943, Serial No. 485,820
9 Claims. (Cl. 74—61)



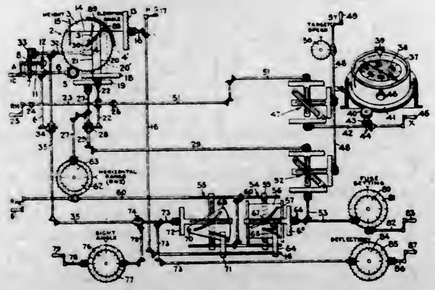
1. A driving mechanism for a body suspended for free vibration in a plane, comprising a shaft rotatably mounted in alined bearings on said body, at least one eccentric portion on said shaft, a balancing wheel secured on said eccentric portion, means to rotate said wheel and shaft, said balancing wheel and shaft assembly being dynamically balanced on the axis of said bearings at predetermined speeds substantially below normal operating speed, a centrifugally operated weight in said wheel movable by centrifugal force to a position in which said wheel is unbalanced relative to its geometrically central axis at normal operating speed, said driving mechanism and said body being dynamically balanced relative to the geometrically central axis of said wheel at normal operating speed.

2,403,503
DETECTING SYSTEM AND APPARATUS
Kenneth L. Coulter, Youngstown, Ohio, assignor to The Astatic Corporation, Youngstown, Ohio, a corporation of Ohio
Application August 19, 1942, Serial No. 455,312
1 Claim. (Cl. 177—314)



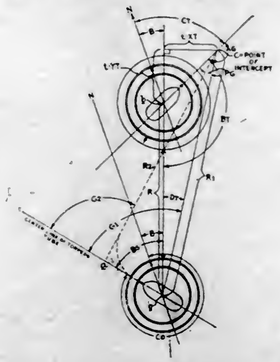
Apparatus of the character described comprising in combination a plurality of fence posts, a woven wire fence secured to said posts, laterally extending brackets secured to said woven wire at spaced intervals positioned intermediate said posts, a taut wire rigidly connected to the outer ends of said brackets, and a mechanical vibration-electrical transducer having its mechanical driving element mechanically connected to said taut wire.

2,403,504
GUNFIRE CONTROL COMPUTER
Raymond E. Crooke, Great Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application February 21, 1941, Serial No. 379,927
8 Claims. (Cl. 235—61.5)



4. Apparatus for use in aiming a gun for firing a projectile at a target approaching at a constant height above a horizontal plane, comprising a vector analyzer having three component slides, means for moving one of said component slides to positions in accordance with the height of the target, means including a differential for moving the second and third of said slides simultaneously to positions in accordance with the horizontal ranges of the target, a first multiplier the inputs of which are settable in accordance with the speed of the target and a selected preparation period of time, motion transmission means connecting the output of the first multiplier to the second and third slide moving means, a second multiplier the inputs of which are settable in accordance with the speed of the target and a computed period of time of flight of the projectile, motion transmitting means connecting the output of the second multiplier to the differential whereby the third slide is moved independently of the second slide in accordance with changes in horizontal range, ballistic computing means for computing the flight period and settable in accordance with the position of the first slide and in accordance with the position of the third slide including an output moved in proportion to the computed flight period, and motion transmitting means connecting the output of the computing means to the flight period input of the second multiplier.

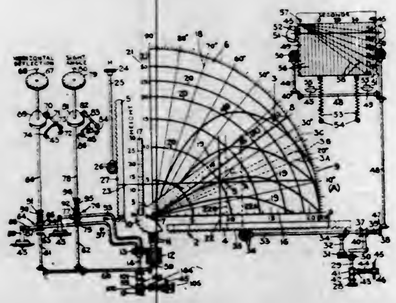
2,403,505
TORPEDO DIRECTOR
Raymond E. Crooke, Great Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application May 15, 1941, Serial No. 393,565
4 Claims. (Cl. 235—61.5)



3. Apparatus for use in determining the gyro angle relative to the centerline of a torpedo tube for discharging torpedoes having a course consisting of a curved section and a straight section, directing means for determining the direction of the line of sight to a moving target relative to the centerline of the tube, means for determining the component at right angles to the line of sight of the movement of the target during the time of run of the torpedo, means for determining the component along the line of sight of the movement of the target during the time of run of the torpedo, said component determining means including means adjustable in accordance with the time of run of the torpedo, means settable in accordance with the range to the target along the line of sight, a vector solver including component members operable in accordance with the component determining means and the range settable means and a vector member operably associated with said component members the direction and length of which represent the direction relative to the line of sight and the distance to the point of intercept of the torpedo and target, differential means for combining the directional position of the directing means and the directional position of the vector member to determine the direction of the point of intercept relative to the centerline of the tube, means settable by the differential means and in accordance with the length of the vector member for positioning an output member representative of a correction to the distance to the point of intercept, means for combining the positions of the output member and the length

of the vector member, dividing means including an input element operable by the combining means, a second input element operable by a member settable in accordance with the torpedo speed and an output element positioned thereby in accordance with the time of run of the torpedo, means for adjusting the said time of run means in accordance with the position of the output element, means settable by the differential means and in accordance with the length of the vector member for displacing a part in accordance with the correctional angle to allow for the curved section of the torpedo path and second differential means for combining the output of the first differential means and the displacement of the part to determine the direction of the straight section of the torpedo path relative to the centerline of the torpedo tube.

2,403,506
GUNFIRE CONTROL COMPUTER
George A. Crowther, Manhasset, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application April 2, 1941, Serial No. 386,451
2 Claims. (Cl. 235—61.5)



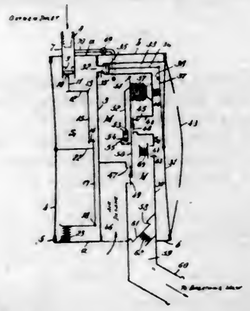
2. Apparatus for use in aiming a gun, comprising a ballistic chart having curves representing the trajectory and the time of flight of a projectile relative to the gun, a vector analyzer associated with the chart including a vector arm and a pair of component slides, the vector arm having its axis of rotation located to intersect the point of the chart representing the gun and each component slide having an index movable over the chart, means operable to move one component slide to position its index relative to the chart in accordance with the height of a target, means operable to move the second component slide to position its index relative to the chart in accordance with the horizontal range of the target, means operable to angularly position the vector arm relative to the chart in accordance with the angular position of the target corresponding to the intersection of the indices of the component slides, a time-distance chart having lines representing target speeds so spaced relative to rectangular coordinates that the abscissa and ordinate of a point represent time and distance traveled by the target at its respective speed, a part movable to position representing ordinate corresponding to selected target speed and time values, and clutch means operable to connect the part to the means to move the second component slide, whereby operation of the means to move the second component slide will move the part and the second component slide simultaneously and in corresponding amounts.

2,403,507
BILLFOLD
Joseph C. Davio, Agawam, Mass.
Application July 1, 1942, Serial No. 449,223
7 Claims. (Cl. 150—38)



1. A billfold of the character described formed from a blank of flexible material including an outer portion, an inner portion having a slit therein, an extension on said blank folded upon said inner portion to provide a pocket thereon, a flap on said extension, and a tab on said flap extending inwardly under said extension and through said slit for fastening the extension to said inner portion and rendering said pocket expandable.

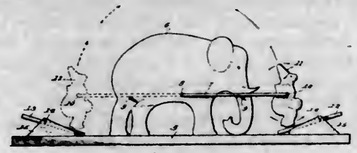
2,403,508
AIRCRAFT BREATHING REGULATOR
George M. Deming, Orange, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application January 26, 1943, Serial No. 473,627
18 Claims. (Cl. 128—191)



1. An oxygen regulator for aviators comprising a respiratory chamber, an oxygen chamber, a valve-controlled port through which oxygen may be drawn into the respiratory chamber from the oxygen chamber upon inhalation by the aviator, and a valve-controlled port through which air may be drawn into the respiratory chamber upon inhalation by the aviator, the valve of said last-named port having means effective only for intermediate open positions of the valve for increasing the amount of throttling action that would be obtained by the valve at such intermediate open positions in the absence of said means.

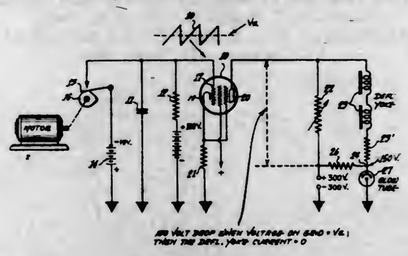
2,403,509
ACROBATIC TOY
Foster C. Dise, Akron, Ohio
Application June 5, 1944, Serial No. 538,763
2 Claims. (Cl. 46—130)

1. A figure toy comprising a base, a stationary figure secured upon and projecting upwardly from said base, a resilient arm pivoted on a horizontal axis to said stationary figure between the front and rear ends of the latter to swing upwardly over said figure from a normally lowered position in which it projects either forwardly or rearwardly from said figure, an acrobatic figure pivotally hung from the outer free end of said arm, and rigid abutments projecting laterally from said stationary figure near its front and rear ends to abut said resilient arm adjacent its longitudinal center when it is swung either forwardly or rearwardly over said stationary figure, and an actuating means for said acrobatic figure mounted at each end of said



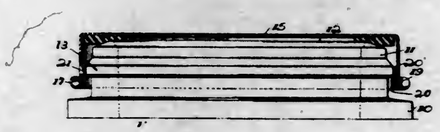
base and positioned beneath said acrobatic figure when the latter is in one of its lowered positions, whereby when one of said actuating means is operated with considerable force to engage said acrobatic figure and project it and said resilient arm upwardly over said stationary figure, the momentum of said acrobatic figure will cause momentary bowing of said arm as it strikes one of said abutments and the resultant back lash of said arm will reversely throw said acrobatic figure back to a position above the actuating means which was operated to project it.

2,403,510
LOW-FREQUENCY DEFLECTING CIRCUIT
Thomas T. Eaton, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1943, Serial No. 500,740
6 Claims. (Cl. 175—335)



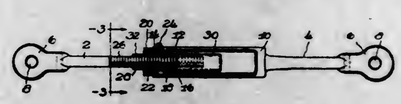
1. A low frequency deflecting circuit comprising a vacuum tube having an anode, a cathode and a control grid, a direct-current voltage supply having a comparatively high potential point and an intermediate potential point, means for holding the voltage of said intermediate potential point constant regardless of the flow of deflecting current, said high potential point being connected to said anode through an anode resistor, a deflecting coil that is connected between said anode and said intermediate potential point by direct-current connections only, means for producing a periodic voltage wave having a repetition rate equal to that of the desired low frequency deflection, and means for applying said voltage wave to said control grid to produce a periodic flow of anode current, said anode resistor having a resistance such that the anode voltage equals the voltage of said intermediate potential point when the voltage on the control grid is at some intermediate value of said periodic voltage whereby deflecting current flows through said deflecting coil in one direction when the control grid voltage is less than said intermediate value and flows through said coil in the opposite direction when the grid voltage is greater than said intermediate value.

2,403,511
CONTAINER CLOSURE
Edward M. Enkur, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application February 19, 1943, Serial No. 476,447
8 Claims. (Cl. 215—38)



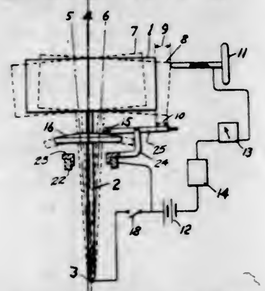
1. A snap-on and pry-off cap including a top and a resilient substantially cylindrical skirt depending from said top and including a continuous curled bottom edge, said skirt being provided with a small number, at least three, of circumferentially spaced inwardly projecting lugs having upper portions which incline gradually outwardly and upwardly relative to the inner surface of the skirt above said edge and merge into said surface a distance above said edge and having lower portions in said edge inclined gradually downwardly and outwardly relative to said inner surface, said lugs being engageable under a container locking ring of substantially less maximum diameter than the maximum inside skirt diameter when the cap is applied, said lower and upper portions affording a shoehorn effect in the cap applying and removing operations respectively, and inwardly projecting indentations in said skirt above said edge between lugs adapted when the cap is applied to bear against the periphery of such a locking ring, without engaging thereunder, so as to substantially maintain the normal skirt radius on the radii which include said indentations.

2,403,512
SLACK ADJUSTER
Norman Flesch, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application January 21, 1944, Serial No. 519,227
9 Claims. (Cl. 287—61)



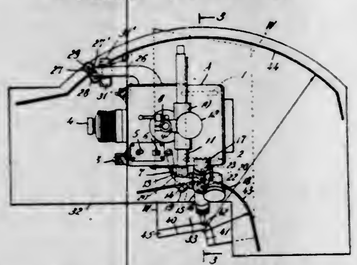
4. In a slack adjuster pull rod, a pull rod member comprising an integral jaw at one end thereof and an integral body at the opposite end thereof, an adjusting member rotatable within said body, said adjusting member comprising a wrench-engaging portion, means for yieldingly resisting rotation of said adjusting member, and another pull rod member comprising an integral jaw at one end thereof and a threaded portion at the opposite end thereof sleeved within said adjusting member in threaded engagement therewith, said adjusting member comprising a housing for the reception of the extremity of said threaded portion.

2,403,513
DEVICE FOR DETERMINING THE DEFLECTION OF ROTATING BODIES
Erik August Forsberg, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application September 21, 1943, Serial No. 503,209
In Sweden October 8, 1942
2 Claims. (Cl. 73—66)



1. Means for measuring the deflection of a rotating body supported on the outer end of a shaft, a radially adjustable element adapted to be adjusted radially with relation to the rotating body to make electrical contact with the rotating body after deflection, an element rotatable with the body having an electrical contact portion and an insulated portion, an electrical contact member adapted to engage the element rotating with the body, said electrical contact member being adapted to be shifted about the axis of the shaft over the face of said rotating element, and an electric circuit having in series a source of current, the body, the element rotatable therewith, the electric contact member, the radially adjustable element and an indicating instrument.

2,403,514
APPARATUS FOR CUTTING METAL ALONG CURVED LINES
James F. Franzen, Chicago, Ill., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application September 10, 1943, Serial No. 501,885
4 Claims. (Cl. 266—23)

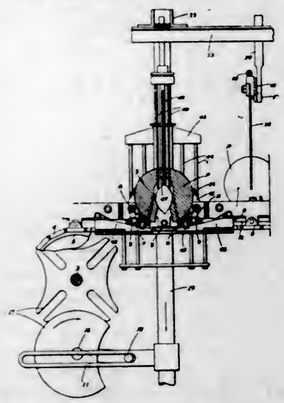


1. Apparatus for cutting metal work-pieces comprising a self-propelled carriage having a pair of forward wheels and at least one rear caster wheel, a motor for driving one of the forward wheels, a torch arm mounted on the carriage and projecting laterally therefrom, a gas cutting torch carried by said arm at an angle to the surface of the work-piece whereby the cut made by the torch produces a bevel edge on the work-piece, the tip of the torch being substantially in transverse alignment with the contact points of the forward carriage wheels, and means for causing movement of the carriage in a predetermined manner to cause the torch to cut a bevel edge on the work-piece having a curved corner of relatively small radius whose center is at that side of the carriage where the torch is located, said means comprising a pair of guide rails between which the carriage is adapted to travel and portions of which are curved about the center of the curved corner to be cut in the work-piece, an arm attached to that side of the carriage where the torch is located, a pair of rollers carried by said arm engaging opposite vertical faces of the corresponding guide rail and located substantially in alignment with the tip of the torch and the contact points of the forward carriage wheels, a second arm attached to the opposite side of the carriage and projecting toward the rear thereof and a pair of rollers carried by said second arm and engaging opposite vertical faces of the other guide rail.

2,403,515
SIZING MATERIAL
Allen R. Fuller, Decatur, Ill., assignor to A. E. Staley Manufacturing Co., Decatur, Ill., a corporation of Delaware
No Drawing. Application May 31, 1943, Serial No. 489,191
6 Claims. (Cl. 106—215)

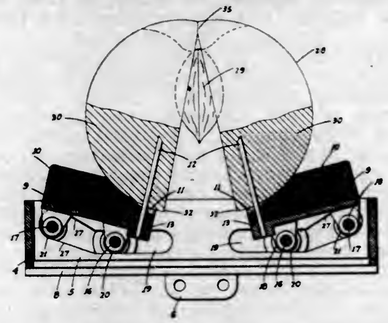
6. A composition of matter adapted to the warp sizing of rayon yarn and the like comprising an aqueous-dispersion of a major proportion of a film-forming substance and a minor proportion of substances that serve as wetting agents for the yarn and as plasticizers for the film that is subsequently formed on the yarn by drying the coating, wherein xylan is the sole film-forming substance present.

2,403,516
FRUIT HALVING AND PITTING MACHINERY
Norman E. Gaddini, Winters, Calif.
Application May 1, 1944, Serial No. 533,548
17 Claims. (Cl. 146—28)



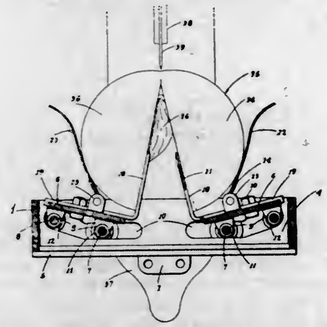
1. Fruit machinery comprising, in combination, a conveyor assembly adapted to fixedly but releasably support and convey stone fruit in a row, means successively cooperating with the fruit at spaced stations along the conveyor assembly arranged to first partially cut the fruit into halves at one station and to then complete the cut and substantially simultaneously eject the pit from between said halves at another station, and means to release the halves and discharge the same from the conveyor assembly at a third station beyond said fruit cutting and pitting stations.

2,403,517
FRUIT HOLDER
Norman E. Gaddini, Winters, Calif.
Application April 14, 1945, Serial No. 588,335
19 Claims. (Cl. 146—28)



1. A fruit holder for automatic fruit machinery, said holder comprising a frame, a pair of adjacent supports mounted on the frame for separating movement, means to separate the supports, and fruit impaling means upstanding from and projecting above the supports in adjacent but spaced relation.

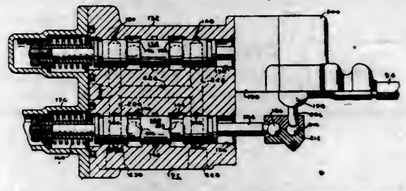
2,403,518
HOLDING UNIT FOR FRUIT
Norman E. Gaddini, Winters, Calif.
Application April 14, 1945, Serial No. 588,336
14 Claims. (Cl. 146—28)



1. A fruit holder for automatic fruit machinery, said holder comprising a frame, a pair of adjacent supports mounted on the frame for separating movement, means to separate the supports, a pair of top sharpened knives upstanding intermediate the supports in normally adjacent edge to edge relation transversely of said direction of separating movement, means rigidly mounting the knives in connection with corresponding supports so that the knives separate relative to each other upon separation of the supports, and fruit holding means upstanding from the supports in spaced but cooperative relation to corresponding knives.

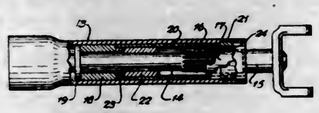
2,403,519
POWER TRANSMISSION
Duncan B. Gardiner, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application August 24, 1939, Serial No. 291,631
8 Claims. (Cl. 60—97)

1. In a hydraulic power transmission system the combination with a source of pressure fluid and a pair of fluid motors for driving a load device in each of two directions in perpendicular planes, a pair of control valves arranged side by side and each having a longitudinally shiftable operating stem, and a single operating lever universally pivoted on a center spaced from a plane including the lines of travel of said stems, said



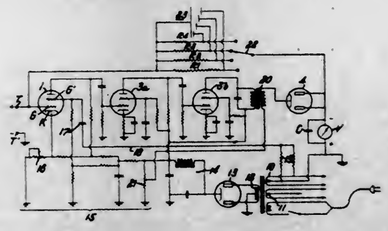
operating lever having an operating connection with each stem whereby the lever may be rocked in a plane including the line of travel of one stem to shift said stem without shifting the other or vice versa and may be rocked in other intermediate planes to variably shift both stems in different proportion.

2,403,520
DRIVE SHAFT BUSHING ASSEMBLY
Theodore C. Gerner, Oklahoma City, Okla.
Application July 23, 1945, Serial No. 606,566
14 Claims. (Cl. 308—36.1)



1. In an automotive vehicle, a propeller shaft housing, a propeller shaft rotatable in said housing, a journal for said shaft adjacent an end of said housing, a repair unit insertable in said end of said housing, said unit including an open ended sleeve tightly fitting in said housing and with a first end disposed adjacent said journal, and a bearing in said sleeve adjacent said first end for journalling said shaft.

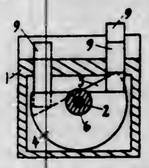
2,403,521
ELECTRONIC MICROAMMETER
Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application August 20, 1943, Serial No. 499,417
6 Claims. (Cl. 171—95)



1. In a direct current electronic ammeter, a modulator having an input circuit to be connected in series with the circuit traversed by the current to be measured, a source of alternating current for excitation of said modulator, a rectifier for rectifying the output of said modulator, said rectifier having an output circuit including a voltmeter for measuring the voltage developed by the modulated output of said modulator, and means

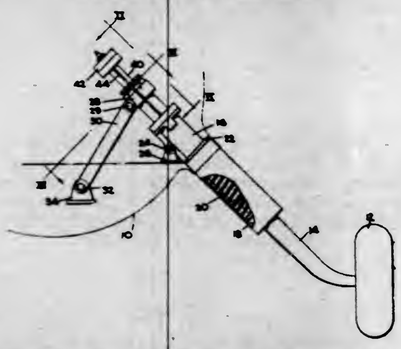
including a degenerating resistor connected between said rectifier output circuit and said modulator input circuit for establishing a condition of equality between the current to be measured and the degenerative current through said resistor, whereby the rectifier output voltage is a measure of the current input to said modulator.

2,403,522
STRIKER TOY
William V. Goldstein, Freehold, and Lou Shooman, Belmar, N. J.
Application May 11, 1944, Serial No. 535,018
1 Claim. (Cl. 124—4)



A toy comprising a casing having a platform and two holes in said platform, a post inserted in one of said holes and another post inserted in the other hole, said posts being frictionally slidable in said holes, and a member positioned below said platform, connected to said casing turnably around an axis parallel to said platform, and having the shape of a disk of which a segment is cut off whereby the circumference of said member consists of an arc and of a chord-like positioned surface, said latter surface contacting the lower ends of said posts.

2,403,523
AIRCRAFT UNDERCARRIAGE
Joseph M. Gwinn, Jr., San Diego, Calif.
Application September 18, 1944, Serial No. 554,629
8 Claims. (Cl. 244—104)

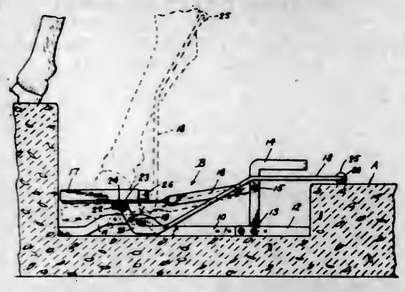


1. In aircraft, an undercarriage strut unit extending in a substantially inclined attitude from the body of said aircraft, said strut unit comprising a bearing member, a strut member mounted upon said bearing member and movable thereon in the direction of extent of said unit, energy-absorbing means interconnecting said bearing and strut members, said bearing member being pivotally connected to said aircraft at a position intermediately of the ends of said strut member, and a link pivotally connected at one of its ends to said strut member at a position offset from the position of said pivotal connection and extending laterally therefrom into connection at its other end to a positionally fixed portion of the aircraft.

2,403,524
PROCESS FOR THE PREPARATION OF HIGH-GRADE ANTIKNOCK MOTOR FUELS
August Hagemann, Duisburg-Meiderich, Germany; vested in the Alien Property Custodian
No Drawing. Application March 10, 1941, Serial No. 382,639. In Germany February 8, 1940
6 Claims. (Cl. 260—449.6)

1. The process of making high-grade antiknock motor fuels which comprises treating the unsaturated hydrocarbons, derived from the cracking of high molecular hydrocarbons and having from about 3 to 5 carbon atoms in the molecule, to a selective polymerization of the unsaturated iso-hydrocarbons present, treating the resulting products with carbon monoxide and hydrogen at temperatures of at least about 300° C. under conditions producing the conversion of the alkenes present into alcohols, subjecting these alcohols to a dehydrating step under conditions producing the formation of alkenes and hydrogenating the resulting alkenes, thereby producing an aircraft fuel having a remarkably high octane number.

2,403,525
CATTLE GUTTER GUARD
Albert Hardrath, Sr., and Albert Hardrath, Jr., Unity, Wis.; said Albert Hardrath, Jr., assignor to said Albert Hardrath, Sr.
Application January 29, 1944, Serial No. 520,278
2 Claims. (Cl. 119—15)



1. A guard of the kind described, comprising a base having an adjustable section, a striking yoke pivotally supported by the base, a depressible treadle carried by the base for operating the striking yoke, and adjustable contact rollers on the yoke for engaging the under side of the treadle.

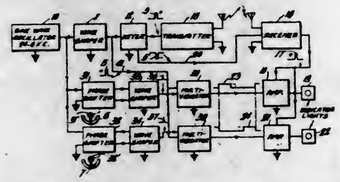
2,403,526
DISHWASHING MACHINE
William Norris Harris, Atlanta, Ga.
Application October 6, 1941, Serial No. 413,885
1 Claim. (Cl. 134—115)



A device of the class described for a sink having an opening and an exterior projecting portion about said opening, and a bracket on the exterior of said sink, the device comprising a shaft adapted to be journaled in said opening and said bracket, packing around the shaft at the outer end of said portion, a cap about said shaft for engaging said portion and enclosing said packing,

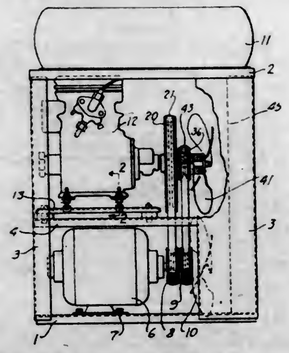
said shaft in the top thereof having an axially extending recess to selectively receive attaching means of a propeller or attaching means of a closure, and operating means for said shaft between said cap and bracket.

2,403,527
PULSE-ECHO DISTANCE INDICATOR
William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 30, 1943, Serial No. 474,159
7 Claims. (Cl. 250—1)



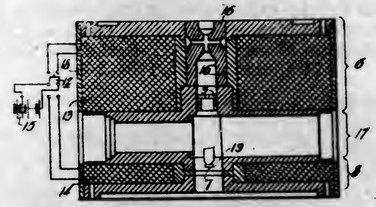
5. A pulse-echo system comprising means for transmitting pulses, means for receiving said pulses after reflection from a surface or object, a pair of indicating devices, means including a pair of amplifiers for supplying the received pulses to said pair of indicating devices, respectively, said amplifiers normally being biased to cut-off, means for producing two groups of control pulses of positive polarity having a known phase relation and duration with respect to the transmitted pulses, means for adjusting the duration of said control pulses with respect to the transmitted pulses, and means for applying said two groups of positive control pulses to said amplifiers, respectively, to make them effective to pass the received pulses to said indicating devices for the duration of each applied control pulse.

2,403,528
REFRIGERATING APPARATUS
William Walker Higham, Marion, Ohio, assignor, by mesne assignments, to International Detrola Corporation, Elkhart, Ind., a corporation of Indiana
Application June 7, 1944, Serial No. 539,133
3 Claims. (Cl. 62—115)



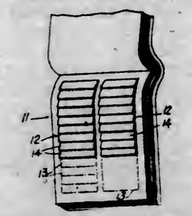
1. A refrigerating apparatus comprising, a frame, a condenser along one side of the frame and extending substantially from the bottom to the top thereof, a motor and a compressor, one of which is mounted in the lower portion of the frame and the other of which is mounted in the upper portion of the frame, the motor having the shaft projecting toward the condenser, a plural pulley on the motor shaft, a fan on the motor shaft positioned adjacent the condenser, the compressor having a shaft projecting toward the condenser, a pulley on the compressor shaft, a spindle carried by and concentric with the condenser shaft, a pulley journalled on said spindle, a fan carried by the last named pulley and positioned adjacent the condenser, belts operating over the plural pulley on the motor shaft and operating over the condenser pulley and over the pulley on the spindle for driving the compressor shaft and the pulley on the spindle at different speeds of rotation, the combined diameters of the two fans substantially corresponding to the vertical dimension of the condenser and the diameter of each fan substantially corresponding to the horizontal dimension of the condenser.

2,403,529
ELECTRON MICROSCOPE
James Hillier, Collingswood, and Richard F. Baker, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 30, 1942, Serial No. 441,142
13 Claims. (Cl. 250—49.5)



7. In combination, an electron image and electron diffraction device including means supported by and located within said device for supporting an object, means for forming an electron micrograph of said object, means for forming an electronic diffraction pattern of said object, common object irradiating means, and common recording means for the desired said micrograph and said pattern.

2,403,530
ALBUM PICTURE HOLDER
Abraham Holtzman, New York, N. Y.
Application September 30, 1944, Serial No. 556,624
4 Claims. (Cl. 129—20)



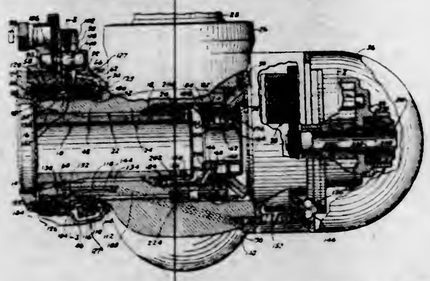
4. A device including a backing member and a series of identical separate strip elements certain of which constitute picture mounts and the others constitute combined binding and mounting means for securing the backing member to an album leaf, the picture mount elements being folded and secured to the backing member at one face thereof in overlapping tab forming relation to each other, the elements of said means being folded over and secured to the different end portions of the backing member and providing an overlapping relation with adjacent picture mount elements, portions of the folded elements being at the opposite face of the backing member, said portions and the tabs being corresponding sections of the elements coated with a non-tacky cement that becomes adhesive upon wetting.

2,403,531
ROLY-POLY DEVICE
Frank M. Hoover and Edwin E. Hoover, Youngstown, Ohio, assignors to Hoover Products, Inc., Youngstown, Ohio, a corporation of Ohio
Application January 6, 1945, Serial No. 571,593
7 Claims. (Cl. 46—1)



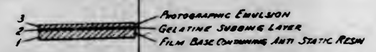
1. A roly poly comprising a hollow body formed of a plurality of assembled shell elements, at least one of said shell elements being equipped with a transverse member, and a weight disk arranged below said member and secured thereby in marginally seated position upon the internal surface of said hollow body.

2,403,532
HYDRAULIC COMPENSATING PROPELLER
Walter Scott Hoover, Montreal, Quebec, Canada
Application March 14, 1941, Serial No. 383,391
21 Claims. (Cl. 170—163)



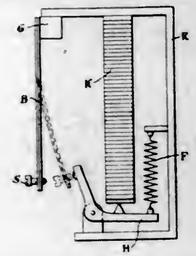
1. In a hydro-controllable propeller, a hub, a plurality of blades carried by said hub and mounted for pitch changing movements, a fluid motor operatively connected with said blades for changing the pitch thereof, a fluid pump carried by said hub for supplying pressure fluid to said motor, connections from both sides of said motor to said pump, and means for varying said connections to control the operation of said motor, said pump including a rotor member surrounding one end of said hub and rotatable therewith, and a relatively non-rotatable member surrounding said rotor member, said rotor member and said hub end having grooves constituting intake and outlet channels for said pump said rotor member and said hub end being relatively movable to control said intake and outlet channels.

2,403,533
NONSTATIC PHOTOGRAPHIC FILM
Frank J. Kaszuba, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application August 18, 1943, Serial No. 499,037
10 Claims. (Cl. 95—9)



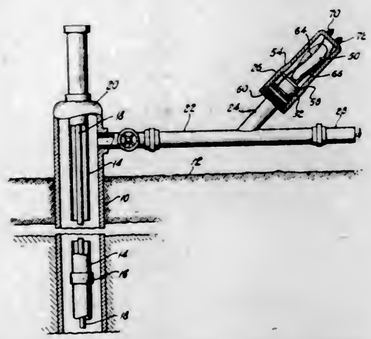
1. An anti-static laminated photographic film which comprises a base of an electrifiable highly polymeric colloid, a layer of a photosensitive emulsion thereon, and a layer of the intermolecular polycondensation product of an organic polybasic acid and a hydroxy primary mono amine.

2,403,534
ELECTRIC CURRENT REGULATOR WITH PRESSURE LOADED CARBON-PILE COLUMN
Wolfgang Kehse, Berlin-Karlshorst, Germany; vested in the Alien Property Custodian
Application February 12, 1941, Serial No. 378,542
In Germany March 12, 1940
3 Claims. (Cl. 201—51)



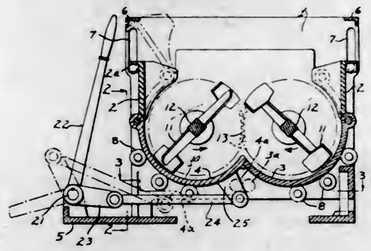
1. A regulator for an electric current circuit comprising, a pressure loaded column of carbon discs, a bimetallic strip having a free end the position of which varies with changes in temperature of the strip, a lever unit having an arm the position of which is varied to change the pressure load on said column and having an arm which is engaged by said free end of the bimetallic strip at abnormally high temperatures, said bimetallic strip thereby being effective to reduce the pressure load on said column at said abnormally high temperatures, and an adjusting screw in said free end of the bimetallic strip to change the relationship between said free end and said lever with the result that the range of effective operation of said bimetallic strip is changed.

2,403,535
WELL SOUNDING MICROPHONE
John T. Kremer, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 18, 1944, Serial No. 527,119
2 Claims. (Cl. 177—352)



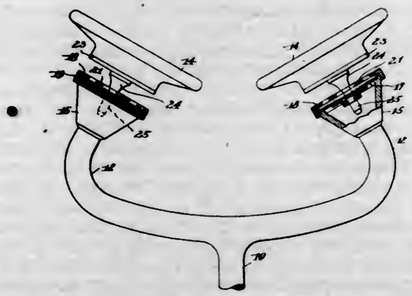
1. A microphone adapted to respond to pressure waves passing through a gaseous medium in a conduit under relatively high pressure, comprising a tubular housing closed at one end and connected at its open end to said conduit, a body member, a pair of discs at opposite sides of said body member, a diaphragm secured to the outer face of one of said discs to provide an air-tight chamber between the diaphragm and disc, a compressible member mounted at the rear of the other disc, a duct connecting the interior of said compressible member with said chamber, said body member and discs being mounted in said housing so that the peripheries of the discs fit snugly against the inner surface of said housing with the diaphragm facing said conduit and the peripheries of said discs being provided with apertures to permit said gaseous medium to surround and compress said compressible member to force air therefrom through said duct to said chamber so as to equalize pressure on opposite sides of said diaphragm.

2,403,536
MIXER
William Hurst Lewis, Altadena, Calif.
Application November 3, 1943, Serial No. 508,835
5 Claims. (Cl. 259—28)



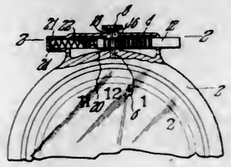
1. In a mixer of the class described, an enclosure, a discharge gate means for the bottom of the enclosure, said gate means comprising a pair of gates of circular cross-section, said gates being positioned with their concave sides directed upwardly and with the axes of their circular cross-sections parallel to each other and each of the gates being slidably mounted at its opposite circular edges in a circular path at the bottom of the enclosure, the inner edge of one gate being slidable over the adjacent edge of the other gate when the gates are closed, and means for closing in sequence the latter gate and then the first gate over the adjacent edge of the latter gate.

2,403,537
HEADREST FOR CHAIRS
Clarence G. Maxson, Rochester, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application January 27, 1944, Serial No. 519,897
7 Claims. (Cl. 155—173)



5. In a head rest for an operating chair, a bracket for said chair formed with an annular seat, a supporting member formed with an annular seat and having a socket opening therein, a spiral spring positioned in the seats of said bracket and member, an annular part threadedly engaged with said bracket for detachably clamping said spring on the seat thereof, and a head rest pad having a shank detachably mounted in said socket opening for supporting said pad for resiliently flexible movement to conform in position to the head of an occupant of the chair and for being detached for sterilization.

2,403,538
WINDING MECHANISM
Raymond T. McCarthy, Holyoke, Mass.
Application September 27, 1944, Serial No. 555,998
1 Claim. (Cl. 58—80)



The combination of a watch case having a rotatable winding and setting stem extending from a side thereof and slidable relative thereto with operating means for said stem comprising, end, front and rear walls extending outwardly from said casing at opposite sides of said stem and an upper wall on said walls cooperating therewith and with said case to provide a housing separate from and outside said case, bosses extending upwardly and inwardly from said case and upper wall respectively in which said stem is rotatable and reciprocable and having spaced apart adjacent faces, a pinion rotatable between and held against axial movement by said faces in which said stem is slidable and relatively non-rotatable, a manually engageable member on said stem outside said upper wall, a guideway provided on the inner face of said rear wall disposed transversely to the axis of said stem, an actuator in said case having a rear side portion slidably guided in said guideway and provided with a set of teeth on its forward side in engagement with said pinion, said set of teeth terminating at opposite ends in inclined stops for abutting said pinion to limit movements of the actuator in opposite directions, a manually engageable member extending from one end of said actuator and slidable in one end wall of the housing for moving the actuator in one direction, the other end wall of the housing having a boss provided with a bore, and a compression spring having one end disposed in said bore and its other end in abutment with the other end of said actuator for moving the same in the opposite direction.

2,403,539
BUOY
Stephen Mehl, Jr., Sans Souci, Mich.
Application April 3, 1944, Serial No. 529,294
9 Claims. (Cl. 9—8.3)

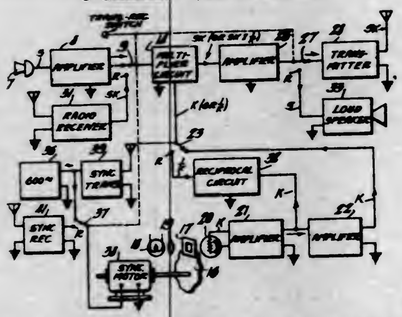
1. A buoy or channel marker for a body of water comprising a post formed in two sections having a universal joint therebetween permitting tilting movement of the one section on the other in any direction, said lower section forming an anchor which may be driven into the bottom beneath said body of water and said upper section containing an air chamber for imparting buoyancy thereto, means for preventing relative

axial rotation of said sections, and yieldable means for holding said sections normally in axial



alignment and for returning them to this position when the upper section is displaced.

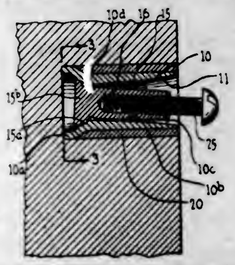
2,403,540
RECIPROCAL CIRCUIT
Carl A. Meneley, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 23, 1943, Serial No. 484,304
8 Claims. (Cl. 179—1.5)



1. The method of producing the reciprocal of a signal that reverses in polarity at intervals with respect to an alternating-current axis whereby the signal has cross-over points on said axis, said method comprising the steps of producing a signal that has a relatively large amplitude substantially at the time of occurrence of said cross-over points, and which reverses in polarity at said cross-over points, producing another signal that has a wave form approximately similar to that of the first-mentioned signal, and adding the two produced signals with one of them reversed in polarity and having the proper amplitude with respect to the other produced signal for producing a sum voltage that is substantially the desired reciprocal signal.

2,403,541
ANCHORING DEVICE
Joseph H. Molat, New York, N. Y.
Application February 1, 1945, Serial No. 575,643
3 Claims. (Cl. 85—2.4)

1. For use in attaching an object to a wall or ceiling, an anchor device of the character described comprising a relatively rigid first tubular member, a soft metallic sheath surrounding said first tubular member, the said first tubular member and sheath being adapted to be received in an opening in said wall and frictionally retained therein, the inner wall of said first tubular member having a relatively enlarged head portion at the inner end thereof and a relatively constricted portion, the said relatively constricted portion being tapered outwardly from said head portion to the opposite end thereof, a second rigid member comprising an enlarged head portion and a shank portion, said second member being disposed within said first member with the enlarged head portion of said second member nested within the enlarged head portion of said first mem-

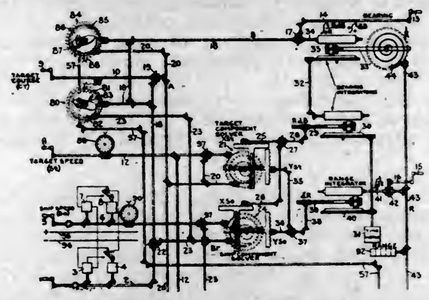


ber and with said shank portion nested within the constricted portion of said first member, the enlarged head portion of said second member being larger than said constricted portion of said first member whereby the axial movement of said second member will be limited in an outward direction, the size of said shank portion of said second member being such as to provide a free space between the outer wall thereof and the inner wall of said constricted portion of said first member to permit free adjustable angular movement of said second member with respect to said first member for the purposes set forth and means for attaching an object fastening screw member or bolt to said second member.

2,403,542
TORPEDO DATA COMPUTER
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,897
4 Claims. (Cl. 235—61.5)

1. In a torpedo director of the regenerative type for determining the distance run and the course of the torpedo to reach a point of intercept with a target, means settable in accordance with the range and relative bearing of the target from an observing point on a firing ship, an element positionable in accordance with the steady course of the torpedo relative to the firing ship, members acuated in accordance with the position of said element and moved in proportion to components of position relative to the observing point of a reference starting point of a fictitious torpedo starting at the instant of firing of the actual torpedo and traveling to the point of intercept at a constant speed equal to that of the actual torpedo and on a course the same as that of the actual torpedo after it has settled down on its steady course to the target, the position of said members representing components along coordinates parallel to and at right angles to the steady course of the torpedo, a part positionable in accordance with the time of run of the torpedo, multiplying means having inputs actuated in accordance with the position of the part and the speed of the target and an output whose

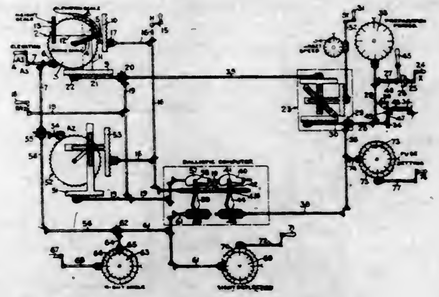
position represents the distance run by the target to the point of intercept during the time of run of the torpedo, vector means adjustable in length by the range settable means and angularly positioned by the relative bearing settable means and the position of the element, component members associated with said vector means and positioned thereby in accordance with components of the range of the target along coordinates parallel and at right angles to the steady course of the torpedo, means settable in accordance with the target angle, second vector means adjustable in length by the output of the multiplier and angularly positioned by the relative bearing settable means and by the position of the element and by the target angle settable means, component members associated with said second vector means and positioned thereby in accordance with components of the distance run run by the target to the point of intercept along



coordinates parallel and at right angles to the steady course of the torpedo, means differentially combining the positions of the members representing the three said components along coordinates parallel to the steady course of the torpedo, means responsive to the combining means and moved from normal position for controlling the positioning of the part in accordance with the time of run of the torpedo, said combining means including a member actuated by the part in accordance with the distance run by the fictitious torpedo to the point of intercept to restore the responsive means to normal position, means differentially combining the positions of the members representing the three said components at right angles to the steady course of the torpedo, and means responsive to the last mentioned combining means for positioning the element in accordance with the steady course of the torpedo relative to the firing ship.

2,403,543
GUNFIRE CONTROL COMPUTER
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application February 19, 1941, Serial No. 379,632
7 Claims. (Cl. 235—61.5)

3. Apparatus for use in the aiming of a gun for firing a projectile at a target approaching at a constant height above a horizontal plane, comprising a vector analyzer having a range scale angularly settable in accordance with the elevation of the target at an observing instant and including a first slide settable relative to the range scale to positions in accordance with the corresponding horizontal range of the target and a second slide settable relative to the range scale to positions in accordance with the corresponding height of the target, means for angularly setting the range scale, means settable in accordance with a selected preparation period of time including a zero setting stop, means movable in accordance with the time of flight of the projectile, a first differential for combining the movements of the preparation period settable means and the time of flight movable means, a multiplier connected to the output of the first differential and also settable in accordance with the speed of the target, means settable to represent the horizontal range at the end of the time of flight, a second differential actuated by the output of the multiplier and the range settable means and connected to position the first slide, ballistic computing means having input members connected to the range settable means and to the said second slide, said ballistic computing means including an output moved in proportion to the time of flight, motion transmitting means connecting the output of the ballistic computing means and the time of flight movable means, resilient means connected to the preparation period settable means for moving the said settable means to the

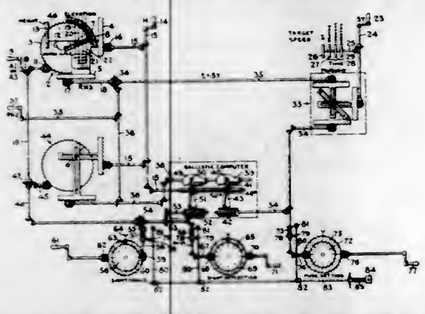


said zero setting stop, releasable setting means for adjusting the preparation period movable means, a vector solver having two component members connected to the said second slide and to the range settable means respectively, a third differential connected to the range scale angular setting means of the vector analyzer and to the output of the vector solver, a second ballistic computing means having input members connected to the range settable means and to the said second slide, said second ballistic computing means including an output moved in proportion to the super elevation, and a fourth differential connected to the output of the third differential and to the output of the second ballistic computing means whereby the output of the fourth differential represents the sight angle of the gun when the resilient means is released to return the preparation period settable means to its zero setting stop and the range scale angular setting means is adjusted to bring the range scale into correspondence with the position of the second slide and the resulting position of the first slide.

2,403,544
GUNFIRE CONTROL COMPUTER
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application February 21, 1941, Serial No. 379,926
6 Claims. (Cl. 235—61.5)

3. Apparatus for use in aiming a gun for firing a projectile at a target approaching at a constant height above a horizontal plane, comprising a vector analyzer including a vector member having a range scale angularly settable in accordance

with elevation angles of the target and also including a first component slide settable to positions in accordance with the observed height of the target and a second component slide settable to positions in accordance with the horizontal range of the target, the first slide having an indicating wire thereon extending from the slide in a direction at right angles to the movement thereof and the second slide having thereon a zero reference wire and a plurality of wires spaced at distances therefrom representing predetermined increments of horizontal range through which the target moves during corresponding preparation periods of time and extending from the slide at right angles to the movement thereof, means settable in accordance with the speed of the target, means movable in accordance with a computed time of flight of the projectile, a multiplier settable by the target speed settable means and the time of flight movable means, means for setting the second slide with that one of its increment wires corresponding to the distance traversed in a preparation period in a position corresponding to the observed slant range and elevation of the target including an operating shaft and a differential one side of which is connected to the output of the multiplier and the other two sides of which are connected to the shaft and the second slide respectively, ballistic computing means connected to the first slide and to the operating shaft of the second slide setting means as inputs and having a first output moved in accordance with the time of flight and a second output moved in accordance with the super elevation angle, motion transmitting means connecting the first output of the ballistic computing means and the movable time of flight means, a vector solver settable by the first slide and the operating shaft of the second slide setting means, means responsive to angular movement of the range scale from an initial position representing an observed position of the target to a position intersecting both the first slide wire and the zero reference wire of the second slide, means for combining the movement of the responsive means and the output of the vector solver, and means for combining the output of the last mentioned combining means and the second output of the ballistic computing means whereby the sight angle is obtained.



2,403,545

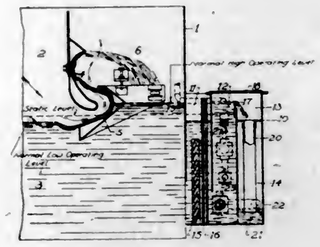
DUST ARRESTER LIQUID LEVEL CONTROL

Arthur Nutting, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application June 5, 1943, Serial No. 489,857

8 Claims. (Cl. 183—24)

1. The combination with a dust arrestor of the type comprising: a casing wherein an air stream or column is adapted to move downwardly through an air inlet chamber to impinge against a bottom liquid bath as it turns to enter and pass upwardly through a baffle zone and thence into an outlet chamber; an element and member mounted on the casing and constructed and arranged to define, in said zone, the opposite sides of an upright sinuously-curved air-cleaning conduit of slot-like cross-sectional area constraining the air to pass through said zone in the form of a shallow sinuous ribbon from a slot-like air inlet at the bottom of the zone which communicates horizontally with the air inlet chamber to an air outlet slot at the top of the zone which discharges the air laterally into the outlet chamber at an angle to the vertical, said element extending upwardly in position to divide the upper portion of the bath into pressure and suction sides having operating levels respectively below and above the static level of the bath and being arranged to present a concavely-curved air-directing wall which defines the convex side of the lowermost curved portion of said conduit and which slopes, at its lower end, downwardly into the bath to form the lower side of said inlet slot at a level providing, at the slot entrance, a head of liquid which progressively decreases as the air flow through the conduit progressively increases through its operating range, said member extending upwardly in position to divide the air space above the bath into said air inlet and outlet chambers and being arranged to present a lower convexly-curved air-directing wall forming the concave side of said lowermost curved portion of said conduit and an upper concavely-curved air-directing wall forming the convex side of the uppermost curved portion of said conduit; the arrester being designed to receive an operating range of air flows which tend to lower the bath level on the pressure side and raise it on the suction side in proportion to the air flow resistance of conduit and which operate to propel a stream of liquid from the low level or pressure side of the bath through the conduit into the outlet chamber; of control means for maintaining the suction side of the bath at a predetermined high level during such operating air flows while permitting the low level on the pressure side of the bath to vary at will, said control means being operative to cause the volume of the liquid stream in the conduit to increase progressively to a maximum and then decrease progressively from the maximum as the air flow increases progressively through its operating range, said control means including: drainage means for draining excess liquid from the high level side of the bath when the high level tends to exceed the predetermined value; and make-up means for supplying make-up water to raise the high level side of the bath to said predetermined value.



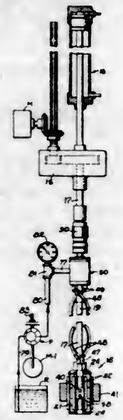
2,403,546

METHOD AND APPARATUS FOR HONING

Joseph O. Olsen, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application September 27, 1943, Serial No. 503,886

11 Claims. (Cl. 51—184.3)



8. In a honing tool in combination, a rigid body, a plurality of abrasive elements supported on said body in a circular series and movable radially thereof for engagement with a cylindrical work surface, a frame mounted on said body for movement transaxially of the body, a nozzle carried by said frame with its outlet disposed in close proximity to the work surface, means carried by said frame coacting with the work surface to center the frame within the work whereby to maintain uniform spacing of said nozzle from the work surface while the tool is traversed through the work, and means connecting said nozzle with a source of fluid under pressure.

2,403,547

MANUFACTURE OF ARTIFICIAL EDIBLE CHERRIES, SOFT SHEETS, AND THE LIKE

William Julius Syplie Peschardt, Pinner, England

No Drawing. Application September 13, 1943, Serial No. 502,220. In Great Britain April 15, 1942

11 Claims. (Cl. 99—131)

1. A process for manufacturing soft impervious bodies, sheets and films, comprising forming a viscous solution of sodium alginate into bodies of desired form and then setting said formed bodies to a desired degree of solidity by immersing the unsolidified bodies in a solution containing glucose and calcium chloride.

2,403,548

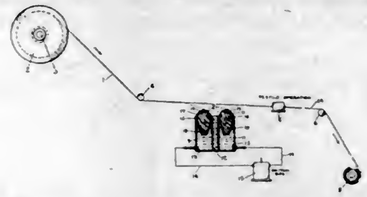
STOP MOTION

Brian Plunkett, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

Application November 25, 1944, Serial No. 565,070

10 Claims. (Cl. 66—163)

1. In a textile device for operating on a traveling warp of yarns, means for stopping the travel of said warp upon breakage of a yarn thereof, said means comprising a pair of vessels adapted to hold electrolyte, relatively stationary means in each of said vessels adapted to be in contact with said electrolyte and to be wetted thereby, a switch in a stop motion circuit, and an electrical connection between said vessels and said switch, the construction and arrangement being such that a broken yarn upon coming into contact with said electrolyte-wetted means is wetted with electrolyte, thus closing the circuit operating the switch to effect a closing of the stop motion circuit and thereby halt the operation of the textile device.



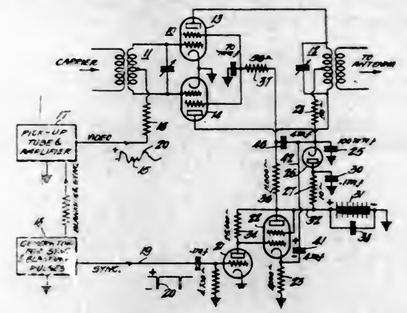
2,403,549

MODULATION SYSTEM FOR TELEVISION

Waldemar J. Poch, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 20, 1942, Serial No. 439,643

5 Claims. (Cl. 178—7.2)



1. In a television transmitter, means for producing a carrier wave, an amplifier connected to amplify said carrier wave, said amplifier having a cathode, a control grid and a third electrode, a source of picture signals and synchronizing signals, means for applying said picture signals to said grid to amplitude modulate said carrier wave by picture signals, and means for applying said synchronizing signals to said third electrode to amplitude modulate said carrier wave by synchronizing signals, said last means including a unilateral conducting device and means for so connecting it as to provide external impedance for said third electrode in response to and for the duration of each synchronizing signal and to provide a comparatively small external impedance therefor during the occurrence of picture signals.

2,403,550

SORTING MACHINE

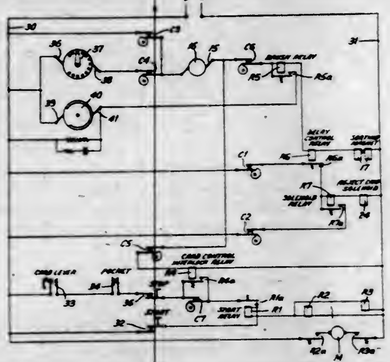
Edward J. Rabenda, Binghamton, and Harold J. Kistner, Union, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 24, 1942, Serial No. 469,982

4 Claims. (Cl. 209—110)

1. In a cyclically operable record card sorting machine, a record card sensing device, sorting means, means for feeding record cards past said device in spaced succession, one card being fed for

each cycle of operation of the machine, said sensing device being effective during the passing of cards thereby for controlling said sorting means, an operating control circuit for the machine, means timed to cyclically open said circuit after each card has passed said sensing device and be-



fore the next card passes said sensing device, means for completing a second circuit through said sensing device at said cyclic time, and means included in said second circuit for rendering the opening of said operating control circuit ineffective.

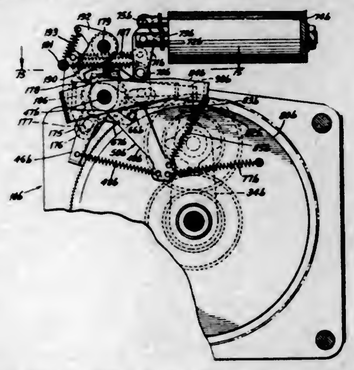
2,403,551
COMB
Eddie P. Randall, Los Angeles, Calif.
Application February 16, 1944, Serial No. 522,553
3 Claims. (Cl. 132—11)



3. A comb, comprising a straight comb portion having a grip portion at the back thereof, said grip portion being shorter than the length of the comb and located centrally between the ends thereof, said grip portion being relatively thin and lying substantially in the plane of the comb portion, the grip portion having a longitudinal groove at the side for receiving the side of a finger of the hand of the person gripping the comb.

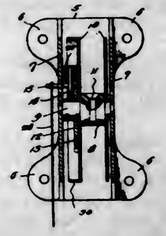
2,403,552
CLOCK
Frederick Q. Rast, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 1, 1943, Serial No. 471,037
16 Claims. (Cl. 58—24)

4. Time keeping apparatus comprising a rotatable minutes indicating member; mechanism including a planetary gear system for rotating said member at its normal time rate and comprising a planet arm rotatable about a fixed axis at the rate of one revolution per minute, a planet pinion rotatably mounted on said arm and movable therewith along a prescribed orbit, first and second sun gears rotatably mounted about said fixed axis and geared to said pinion, said first gear having a driving connection with said minutes member, the number of teeth on said first and second gears being so proportioned that with said second gear held stationary said first gear is advanced at a rate proper to rotate said member at its normal time rate; signal means determining a synchronizing period of relatively short duration occurring at regular time intervals between successive normal operating periods; means for holding said second gear stationary during normal operating periods and for releasing said second gear during



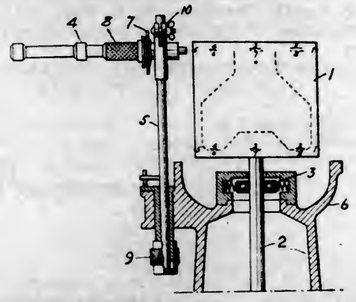
synchronizing periods; means for controlling the rotation of said planet pinion to cause said arm to drive said first gear at a greatly accelerated rate during synchronizing periods; and stop means operable in response to said signal means and during said synchronizing period for stopping said arm and said minutes member upon reaching a predetermined time position and operable to release said arm and said member at the beginning of the next succeeding operating period.

2,403,553
CLOTHESLINE TIGHTENER
Robert J. Rosinski, New York Mills, N. Y.
Application October 20, 1944, Serial No. 559,521
2 Claims. (Cl. 254—164)



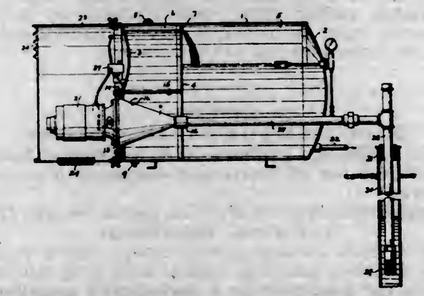
1. A clothesline tightener comprising a supporting bracket-like element, a spool mounted rotatably on said bracket-like element and having provision on the core thereof for detachably fastening a clothesline end thereto, a ratchet structure fixedly secured on the spool and located concentrically and coaxially with the axis of the spool, a swingable arm mounted at the side of the spool ratchet structure, with one end of the arm pivotally supported coaxially with respect to the axis of the spool, a pawl on the free opposite end of said arm and normally engaged with the peripheral teeth of said ratchet structure, a separate holding pawl for said ratchet structure, said holding pawl normally engaging the peripheral teeth of the ratchet structure, a handle extension on said holding pawl for releasing the pawl from engagement with said ratchet structure, a spring return element for said swingable pawl-carrying arm, said bracket-like element including a wall portion in which said spool is supportedly journaled at one end, said wall portion having a slot therein and said swingable pawl-carrying arm being provided with a laterally disposed pin projecting through said slot, and a flexible operating element attached to and depending from said pin for actuating said swingable pawl-carrying arm to effect a step by step rotative actuation of said spool.

2,403,554
METHOD AND DEVICE FOR DETERMINING THE DEFLECTION OF ROTATING BODIES
Gustaf Wilhelm Ruda, Stockholm, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application September 21, 1943, Serial No. 503,228
In Sweden November 5, 1942
10 Claims. (Cl. 73—66)



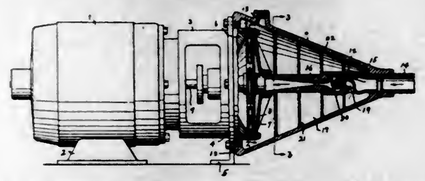
1. The herein described method of determining the degree of deflection of a not precisely balanced rotating body by microscopical observation along radii of said body, which comprises applying a plurality of arcuately spaced apart marks around the periphery of said body in different planes normal to the axis of said body, rotating the body and while it is rotating adjusting the microscope radially to give sharp optical images of one after another of each of said marks, and determining, by means of a previously graduated scale attached to the microscope, the differences of the distances between the microscope and those parts of the peripheral surface of the body to which said marks are applied.

2,403,555
COMBINATION PRESSURE TANK AND PUMP
Arthur P. Ruth, Houston, Tex.
Application February 26, 1945, Serial No. 579,853
10 Claims. (Cl. 103—5)



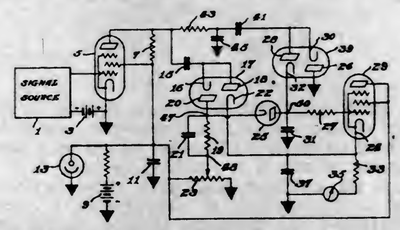
1. In combination, a pressure tank having a main water chamber and a reservoir outside of said chamber provided with an overflow opening, adjacent its top, into the chamber, a pump in the reservoir having an intake pipe leading from outside of the tank and having a discharge into the reservoir.

2,403,556
CENTRIFUGAL PUMP
Arthur P. Ruth, Houston, Tex.
Application December 17, 1945, Serial No. 635,539
6 Claims. (Cl. 103—5)



1. A pump assembly comprising, a housing having a discharge outlet and enclosing a pressure chamber, a pump within the chamber, a suction line leading from without the housing and connected into the pump intake, said pump having a discharge outlet into said chamber, baffles around the inner wall of the housing and spaced apart and being interrupted at the upper part of the housing to provide gates through the baffles.

2,403,557
FREQUENCY DETERMINING DEVICE
Royden C. Sanders, Jr., Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1941, Serial No. 380,834
19 Claims. (Cl. 175—368)

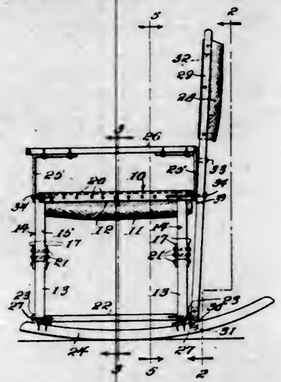


1. A frequency determining device including means for deriving from the current whose frequency is to be determined a current proportional to said frequency, means for applying said proportional current to a capacitor circuit including a meter, said circuit having a predetermined time constant, and means for changing said time constant in response to a change in the amplitude of said current whose frequency is to be determined to minimize the effect of an amplitude change on the reading of said meter.

2,403,558
FOLDING CHAIR
Ralph T. Schoof, Dodge City, Kans.
Application February 27, 1945, Serial No. 579,965
2 Claims. (Cl. 155—140)

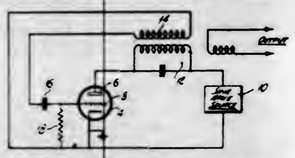
1. In a folding chair, a body having seat supporting members and lateral cross legs connected thereto, said legs being pivotally connected whereby said seat supporting members may be moved toward and away from each other, body supporting means connected to the lower ends of said legs, arm supporting means secured to the upper ends of said legs, uprights carried by both said supporting means at the rear of the seat

supporting members, a back rest carried by said uprights, and a flexible seat carried by said seat supporting members, a guide way provided in each



of said uprights and studs provided on the rear of said arm supporting means received in said guide ways.

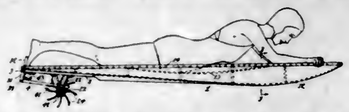
2,403,559
SUBSYNCHRONOUS RECTIFIER FOR FREQUENCY DIVISION
Stuart W. Seeley, Roslyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 24, 1943, Serial No. 515,480
12 Claims. (Cl. 172—281)



12. In a frequency divider, a source of alternating voltages of a first frequency, an inductance and capacity in parallel tuned to a second frequency which is a fraction of said first frequency, an electron discharge tube having an anode, a cathode and a control grid, a connection between one terminal of said source of alternating voltages and the anode of said tube, a connection between the other terminal of said source of alternating voltages and the cathode of said tube, said parallel tuned circuit being in series in said last named connection, a second inductance coupled to the inductance of said parallel tuned circuit and connected between the control grid and cathode of said tube, the arrangement being such as to apply between the control grid and anode of said tube during operation voltages of said fractional frequency and of opposed phase, and a biasing resistance connected between the control grid and cathode of said tube and operating by grid rectification to build up on said grid an average negative bias which is overcome only by peak voltages of said fractional frequency to produce in said tube currents having a component of said fractional frequency.

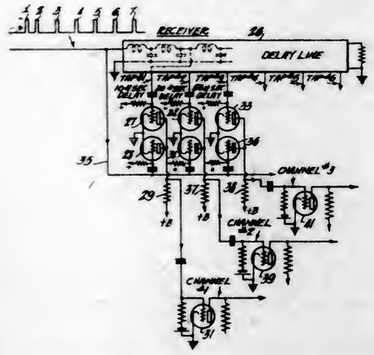
2,403,560
WATER SCOOTER
August E. Simons, Detroit, Mich.
Application February 28, 1944, Serial No. 524,184
2 Claims. (Cl. 9—21)

1. A water craft body having a shaft suspended therebelow, a paddle wheel rotatable upon said shaft, a ratchet wheel arranged in driving relation with said paddle wheel, a pedal operated lever pivoted to said body, and a bar connected to said lever and having teeth adapted to engage the teeth of said ratchet wheel and rotate the



same when moved in one direction and to slip freely thereupon when moved in the opposite direction, there being resilient means for moving said bar and said lever in the said opposite direction and for yieldingly holding said bar and said ratchet wheel in engagement.

2,403,561
MULTIPLEX CONTROL SYSTEM
John P. Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 28, 1942, Serial No. 467,227
11 Claims. (Cl. 177—353)

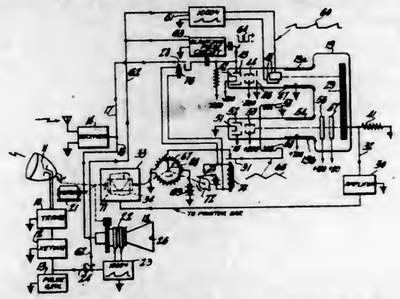


1. A multiplex system comprising means for producing a group of time spaced pulses, means for transmitting said group of pulses to a receiver which includes a delay line, means for supplying said group of pulses to said delay line whereby they are delayed as they travel along said line, a plurality of circuits each of which is responsive to a plurality of coincident pulses, each of said circuits being connected to a different point along said delay line whereby each circuit receives said group of pulses delayed different amounts, means for also supplying said group of pulses to said circuits with the same amount of delay at each circuit, and means for including or omitting pulses from said transmitted group whereby pulse coincidence may be made to occur at the desired circuit at the receiver.

2,403,562
RECORDER FOR RADAR SYSTEMS
John P. Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1943, Serial No. 500,737
11 Claims. (Cl. 178—5)

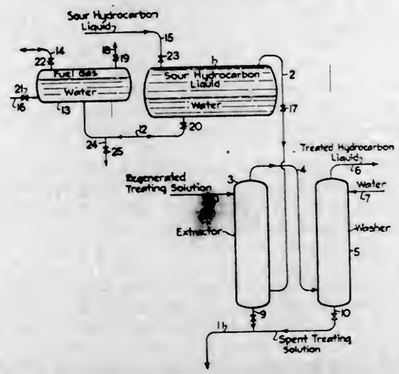
1. A radio locator system comprising a rotatable directive antenna, means including said antenna for transmitting a periodically modulated radio wave toward a reflecting object, a radio receiver for receiving the wave reflected from said object, a cathode ray tube having a screen upon

which a signal may be stored, means including said cathode ray tube for storing said received wave on said screen during a small angular rotation only of said antenna whereby the stored signals are representative of the distance to a reflecting object in the path of the transmitted wave, said storing means also including means for de-



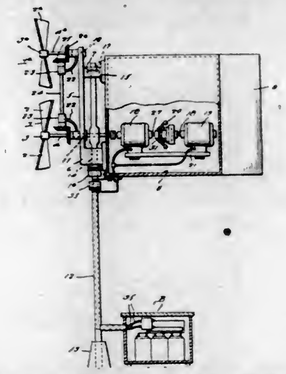
flecting said cathode ray at a comparatively high repetition rate, cathode ray tube means for scanning said screen at a comparatively slow rate at the end of said small angular rotation to produce a distance representative signal that may be recorded, a recorder which includes scanning means, and means for synchronizing said slow scanning of said screen with the scanning of said recorder.

2,403,563
SURGE TANK SYSTEM
Marshall R. Sprinkle, Edwardsville, and Robert S. MacDuff, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 4, 1943, Serial No. 504,984
7 Claims. (Cl. 137—78)



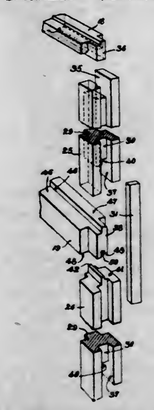
1. In an arrangement for minimizing flow fluctuations in a flow system the combination comprising a closed surge tank, a closed auxiliary tank, flow communication means between said surge tank and said auxiliary tank, an aqueous displacement medium comprising water in said surge tank and said auxiliary tank, said flow communication means terminating beneath the liquid level of said aqueous displacement medium in said surge tank and said auxiliary tank, means for introducing a substantially water-immiscible oxidizable fluid material having a density less than that of water to said surge tank, means for withdrawing said substantially water-immiscible oxidizable fluid material from said surge tank and means for maintaining an oxygen excluding vapor blanket above the liquid level of said aqueous displacement medium in said auxiliary tank.

2,403,564
WIND-OPERATED DEVICE FOR GENERATING ELECTRICITY
Samuel P. Stein, Ocean Grove, N. J.
Application June 8, 1945, Serial No. 598,323
1 Claim. (Cl. 290—44)



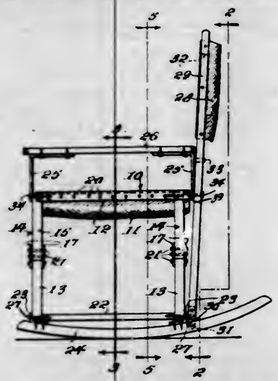
A wind-operated device for generating electricity comprising a plurality of wind-operated members mounted on rotatable horizontal and parallel shafts, a vertical shaft connecting said shafts, a bracket for journalling said shafts, a ground-supported post for journalling said bracket, a frame supported by said bracket and forming at one end a wind-controlled vane, a generator supported by the frame and driven by one of the said first shafts, a second generator supported by the frame in alignment with said first generator and including a shaft coaxial with the shaft of the first generator, a clutch coacting with the adjacent ends of the generator shafts and normally urged to disconnected position, a governor responsive to the speed of said first generator shaft for operating said clutch when the speed approaches the limit of the load capacity of said first generator, and a storage battery anchored to the post and connected to said generators by conductors within said posts.

2,403,565
WINDOW CONSTRUCTION
Benjamin J. Triller, Dubuque, Iowa, assignor to Farley & Loetscher Manufacturing Company, Dubuque, Iowa, a corporation of Iowa
Application August 11, 1943, Serial No. 498,161
9 Claims. (Cl. 20—11)



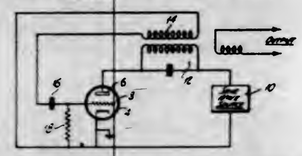
1. A window frame comprising, in combination, a pair of side stiles each consisting of at least

supporting members, a back rest carried by said uprights, and a flexible seat carried by said seat supporting members, a guide way provided in each



of said uprights and studs provided on the rear of said arm supporting means received in said guide ways.

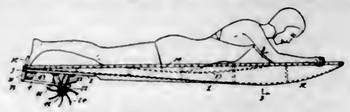
2,403,559
SUBSYNCHRONOUS RECTIFIER FOR FREQUENCY DIVISION
Stuart W. Seeley, Roslyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 24, 1943, Serial No. 515,480
12 Claims. (Cl. 172—281)



12. In a frequency divider, a source of alternating voltages of a first frequency, an inductance and capacity in parallel tuned to a second frequency which is a fraction of said first frequency, an electron discharge tube having an anode, a cathode and a control grid, a connection between one terminal of said source of alternating voltages and the anode of said tube, a connection between the other terminal of said source of alternating voltages and the cathode of said tube, said parallel tuned circuit being in series in said last named connection, a second inductance coupled to the inductance of said parallel tuned circuit and connected between the control grid and cathode of said tube, the arrangement being such as to apply between the control grid and anode of said tube during operation voltages of said fractional frequency and of opposed phase, and a biasing resistance connected between the control grid and cathode of said tube and operating by grid rectification to build up on said grid an average negative bias which is overcome only by peak voltages of said fractional frequency to produce in said tube currents having a component of said fractional frequency.

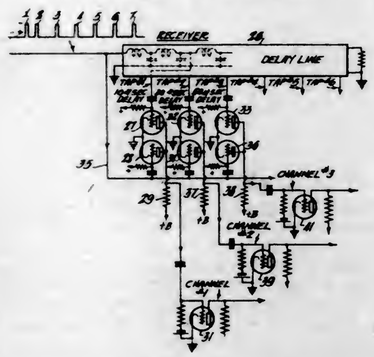
2,403,560
WATER SCOOTER
August E. Simons, Detroit, Mich.
Application February 28, 1944, Serial No. 524,184
2 Claims. (Cl. 9—21)

1. A water craft body having a shaft suspended therebelow, a paddle wheel rotatable upon said shaft, a ratchet wheel arranged in driving relation with said paddle wheel, a pedal operated lever pivoted to said body, and a bar connected to said lever and having teeth adapted to engage the teeth of said ratchet wheel and rotate the



same when moved in one direction and to slip freely thereupon when moved in the opposite direction, there being resilient means for moving said bar and said lever in the said opposite direction and for yieldingly holding said bar and said ratchet wheel in engagement.

2,403,561
MULTIPLEX CONTROL SYSTEM
John P. Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 28, 1942, Serial No. 467,227
11 Claims. (Cl. 177—353)

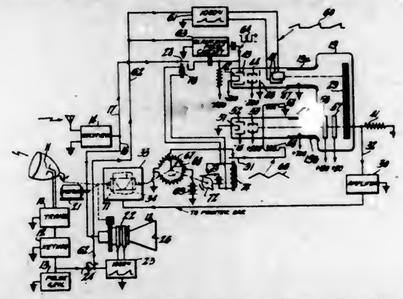


1. A multiplex system comprising means for producing a group of time spaced pulses, means for transmitting said group of pulses to a receiver which includes a delay line, means for supplying said group of pulses to said delay line whereby they are delayed as they travel along said line, a plurality of circuits each of which is responsive to a plurality of coincident pulses, each of said circuits being connected to a different point along said delay line whereby each circuit receives said group of pulses delayed different amounts, means for also supplying said group of pulses to said circuits with the same amount of delay at each circuit, and means for including or omitting pulses from said transmitted group whereby pulse coincidence may be made to occur at the desired circuit at the receiver.

2,403,562
RECORDER FOR RADAR SYSTEMS
John P. Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1943, Serial No. 500,737
11 Claims. (Cl. 178—5)

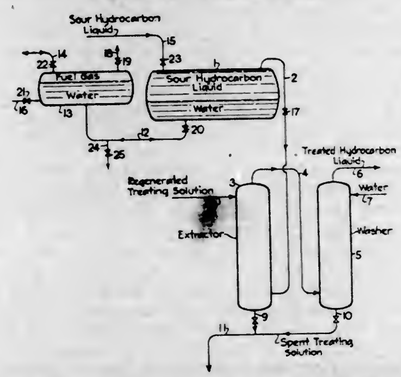
1. A radio locator system comprising a rotatable directive antenna, means including said antenna for transmitting a periodically modulated radio wave toward a reflecting object, a radio receiver for receiving the wave reflected from said object, a cathode ray tube having a screen upon

which a signal may be stored, means including said cathode ray tube for storing said received wave on said screen during a small angular rotation only of said antenna whereby the stored signals are representative of the distance to a reflecting object in the path of the transmitted wave, said storing means also including means for de-



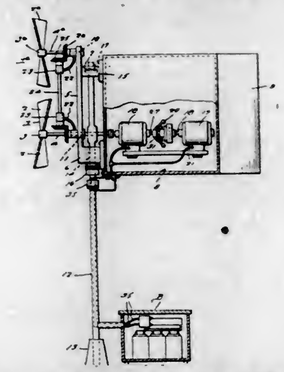
flecting said cathode ray at a comparatively high repetition rate, cathode ray tube means for scanning said screen at a comparatively slow rate at the end of said small angular rotation to produce a distance representative signal that may be recorded, a recorder which includes scanning means, and means for synchronizing said slow scanning of said screen with the scanning of said recorder.

2,403,563
SURGE TANK SYSTEM
Marshall R. Sprinkle, Edwardsville, and Robert S. MacDuff, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 4, 1943, Serial No. 504,984
7 Claims. (Cl. 137—78)



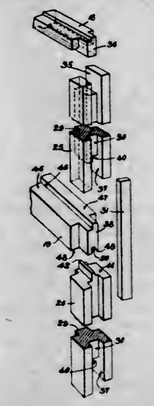
1. In an arrangement for minimizing flow fluctuations in a flow system the combination comprising a closed surge tank, a closed auxiliary tank, flow communication means between said surge tank and said auxiliary tank, an aqueous displacement medium comprising water in said surge tank and said auxiliary tank, said flow communication means terminating beneath the liquid level of said aqueous displacement medium in said surge tank and said auxiliary tank, means for introducing a substantially water-immiscible oxidizable fluid material having a density less than that of water to said surge tank, means for withdrawing said substantially water-immiscible oxidizable fluid material from said surge tank and means for maintaining an oxygen excluding vapor blanket above the liquid level of said aqueous displacement medium in said auxiliary tank.

2,403,564
WIND-OPERATED DEVICE FOR GENERATING ELECTRICITY
Samuel P. Stein, Ocean Grove, N. J.
Application June 8, 1945, Serial No. 598,323
1 Claim. (Cl. 290—44)



A wind-operated device for generating electricity comprising a plurality of wind-operated members mounted on rotatable horizontal and parallel shafts, a vertical shaft connecting said shafts, a bracket for journalling said shafts, a ground-supported post for journalling said bracket, a frame supported by said bracket and forming at one end a wind-controlled vane, a generator supported by the frame and driven by one of the said first shafts, a second generator supported by the frame in alignment with said first generator and including a shaft coaxial with the shaft of the first generator, a clutch coacting with the adjacent ends of the generator shafts and normally urged to disconnected position, a governor responsive to the speed of said first generator shaft for operating said clutch when the speed approaches the limit of the load capacity of said first generator, and a storage battery anchored to the post and connected to said generators by conductors within said posts.

2,403,565
WINDOW CONSTRUCTION
Benjamin J. Triller, Dubuque, Iowa, assignor to Farley & Loetscher Manufacturing Company, Dubuque, Iowa, a corporation of Iowa
Application August 11, 1943, Serial No. 498,161
9 Claims. (Cl. 20—11)



1. A window frame comprising, in combination, a pair of side stiles each consisting of at least

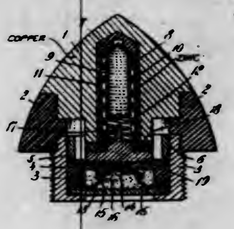
two sections assembled in end-to-end relation, means connecting the sections of each stile to form a rigid unit including a spline extending over the sections and fitted into alined grooves formed therein, and top, bottom and intermediate cross members having tenons at opposite ends, the abutting ends of said sections forming mortises for receiving the tenons of the intermediate members.

2,403,566
LOCK NUT
Joel R. Thorp and Steen Strand, West Allis, Wis., assignors to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application March 24, 1944, Serial No. 527,879
1 Claim. (Cl. 151—21)



A lock nut comprising, two resilient sheet-metal elements each having an approximately semi-elliptical medial bulge cooperating with the bulge of the other to provide an approximately elliptical socket, each element also having integral resilient flat wall portions extending away from the opposite sides of the bulge therein and loosely coacting with the corresponding wall portions of the other along the plane of the major axes of the ellipses and said bulges being provided with notches facing said plane and forming partial screw threads on opposite sides of the socket, and an integral extension at the outer end of one of said flat wall portions on each side of the socket bent around and clampingly engaging the outer end of the adjacent flat portion of the other element to firmly unite said elements only at points remote from said socket.

2,403,567
ELECTRICALLY ENERGIZED FUSE
Nathaniel B. Wales, Jr., New York, N. Y.
Application January 13, 1942, Serial No. 426,580
4 Claims. (Cl. 136—90)



1. In a fused projectile, adapted to be rotated during flight, an electrolyte, a rupturable container therefor, electrodes adapted to form an electric cell when in electrochemical contact with said electrolyte, means responsive to the force of inertia incident to the discharge of said projectile for rupturing said container whereby said electrolyte may flow therefrom, and means utilizing centrifugal force resulting from the rotation of said projectile effectively to force said electrolyte into electrochemical contact with said electrodes irrespective of the position of said projectile during flight.

2,403,568
AIRCRAFT CONTROL SURFACE STRUCTURE AND METHOD OF ASSEMBLY OF SAME
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application March 6, 1943, Serial No. 478,230
18 Claims. (Cl. 244—123)

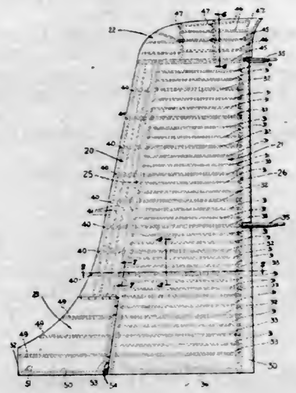


1. In an aircraft control surface structure having trailing and leading edges and a plurality of spanwise spaced metallic ribs, each having chordwise portions converging toward said trailing edge, a trailing edge structure comprising a pair of metallic elements bridging the trailing ends of said ribs, each of said elements having substantially longitudinally continuous rearward portions engaging and securely attached to each other, substantially longitudinally continuous forward portions laterally spaced apart, the one rigidly secured to said chordwise portions at one side of and the other rigidly secured to said chordwise portions at the other side of said structure, and intermediate portions integrally connecting said forward and rearward portions, said intermediate portions being of hollow box-like cross section.

12. The method of constructing a sheet metal control surface structure which consists in constructing two frame sections, each of leading and trailing edge sheet metal elements, spaced interconnecting sheet metal sheet-like rib sections of lesser depth than the depth of said structure and a sheet metal skin secured to said elements and ribs, bringing said sections together with said trailing edge elements engaging each other and said leading edge elements spaced apart and with said rib sections engaging each other in overlapping relation, then externally of said structure securing said trailing edge elements together and from the leading open edge of the structure interiorly securing said overlapping rib sections together, and thereafter closing in the space between the leading edge elements.

2,403,569
FABRICATED METAL STRUCTURE
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 16, 1943, Serial No. 491,034
11 Claims. (Cl. 244—124)

9. A metallic structure comprising a first and second spaced covering skins and having at least one open edge, laterally spaced rib members extending in a first direction from said open edge and secured to the first of said skins, complementary spaced rib members extending from the second skin and each generally paralleling its corresponding first mentioned rib member, means connecting said rib members, said means including elements overlapping in planes parallel to said rib elements, a spar member secured to the first skin and extending in a direction transverse to the first direction, a complementary



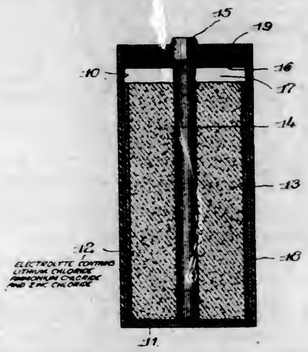
spar member secured to the second skin and extending generally parallel to the first spar member, means connecting said spar members, said last-mentioned means including elements overlapping in planes parallel to said rib elements, whereby the overlapping elements of the rib member connecting means and the overlapping elements of the spar member connecting means are disposed in parallelism so as to be readily secured together through said open edge of the structure.

2,403,570
KETONES SUBSTITUTED BY MODIFIED PROPIONIC ACID RADICLES AND A PROCESS OF PRODUCING SAME
Georg Wiest, Ludwigshafen-on-the-Rhine, and Heinrich Glaser, Bonn, Germany; vested in the Alien Property Custodian
No Drawing. Application February 6, 1941, Serial No. 377,664. In Germany February 12, 1940
10 Claims. (Cl. 260—464)

9. A process for the production of ketones substituted by ω-cyanoethyl radicals which consists in reacting in the presence of an alkaline catalyst at least two molecular proportions of acrylic acid nitrile with one molecular proportion of a ketone selected from the class consisting of aliphatic and cycloaliphatic ketones having only saturated hydrocarbon substituents in addition to the carbonyl group and having at least one —CH_2— group alpha to the carbonyl group.

10. β-cyanoethylated ketones of the class comprising aliphatic and cycloaliphatic ketones, having two β-cyanoethyl groups attached to at least one carbon atom contiguous to the carbonyl group.

2,403,571
DRY CELL
Milton E. Wilke, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application December 31, 1943, Serial No. 516,452
16 Claims. (Cl. 136—155)



1. An aqueous dry cell electrolyte containing lithium chloride.

2,403,572
ROTARY PUMP
David Wittenberg, Romema, Jerusalem, Palestine
Application September 1, 1944, Serial No. 552,227
In Palestine August 31, 1943
2 Claims. (Cl. 103—149)

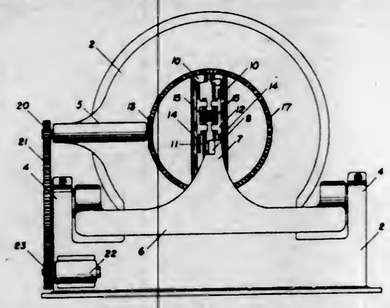


1. A rotary pump, comprising a resilient tube bent into a helical coil, having more than one full turn, a cylindrical casing in which this coil is fixed, an eccentric disk rotatable within the coil, and a metallic ring inserted between the eccentric and the coil, the coil being provided with projections fitting into recesses of the ring, said eccentric disk being adapted, by means of said ring, to compress said tube progressively and continuously through an angle of 360° with elimination, by said ring, of friction between said disk and tube.

2,403,573
MACHINE FOR MANUFACTURING SPIRAL VANES
Arnold E. Biermann, Hampton, Va.
Application December 24, 1941, Serial No. 424,328
5 Claims. (Cl. 90—15)

1. A machine adapted for cutting spiral vanes comprising a frame, a work support for an elongated work piece carried by said frame, a tool table, means for rotating said tool table around the long axis of work carried by said support, means for effecting relative rocking movement between the table and work carried by said support at a fixed speed ratio relative to the rotation of the table, the plane of rotation of the table being substantially parallel to the axis of relative rocking movement, opposed rotary spindles mounted on said table adapted to receive the elongated work piece therebetween,

cutters on said spindles for acting on opposite faces of the elongated work piece, and means on



said table for advancing the cutters along said opposed faces of the work piece.

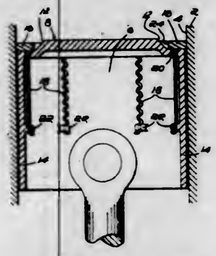
2,403,574

PISTON AND PISTON RING IMPROVEMENT

Thomas A. Bowers, Mattapoisett, Mass.; Elizabeth M. Bowers, administratrix of said Thomas A. Bowers, deceased, assignor of two-thirds to Munroe H. Hamilton, Lexington, Mass.

Application February 25, 1944, Serial No. 523,790

8 Claims. (Cl. 309—4)



5. In combination, a piston having a sealing surface, a piston ring mounted on said surface, and a plurality of spring members attached to said piston ring, passing through said sealing surface and anchored to the piston, said spring members resiliently urging said ring against said sealing surface while permitting it to move thereover radially of the piston.

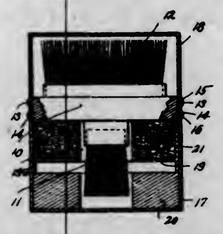
2,403,575

SHOE KIT

Elizabeth A. Brack, Dorchester, Mass.

Application January 10, 1944, Serial No. 517,629

1 Claim. (Cl. 15—258)



A shoe polishing kit including a substantially flat disc member, an applicator brush mounted centrally of one face of said member and a polishing element associated with the opposed face of said member, opposed cover members adapted to engage in interlocking relationship with the outer edge of said member in an assembled relation and in a manner whereby either of said covers may be disengaged from said member independent of the other cover, and means in one of said covers forming accessory compartments and including a disk member having an annular wall engaged with the wall of said one of said covers, said disk member having a central opening surrounded by an upstanding tubular boss forming a compartment for said applicator brush and cooperating with said annular wall to form a paste compartment.

2,403,576

METHOD OF RECOVERING SUBSTITUTED ACETAMIDES

Chester Wayne Bradley, deceased, late of Old Greenwich, Conn., by Margaret H. Bradley, administratrix, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 18, 1945, Serial No. 589,087

4 Claims. (Cl. 260—561)

1. In a method of producing fluoroacetamide from a mixture of chloroacetamide, potassium fluoride and xylene heated to a reaction temperature, the steps which include subjecting the reaction mass to a distillation temperature, and separating a mixture of chloroacetamide and fluoroacetamide from the xylene in the distillate.

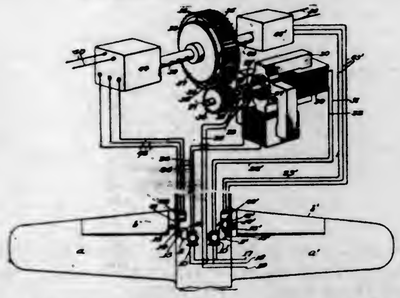
2,403,577

ELECTROMECHANICAL SYNCHRONIZING MECHANISM

Charles J. Breitwieser, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware

Application November 23, 1944, Serial No. 564,839

9 Claims. (Cl. 172—293)



9. Apparatus for operating a pair of flaps on opposite sides of an airplane, comprising: a pair of plural phase electric motors, means for shifting one of the flaps from one of the motors and the other flap from the other motor, a phase changer for relatively varying the phase, voltage and polarity of the current to said motors, and means responsive to relative variations in the operating loads in shifting the flaps, for actuating the phase changer to control the relative supply and polarity of one phase to said motors, and producing relative variation in the torque and speed of the motors to compensate for said variation in the loads and substantially equalize the displacement of the flaps, said phase shifter operating, when one flap becomes jammed, to shift the phase of the motor, which operates the freely movable flap, through 360° whereby to effect alternate reversals of this motor to maintain the freely movable flap in substantially the same plane as the jammed flap.

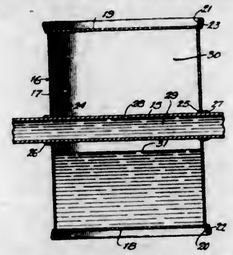
2,403,578

DEVICE FOR PREVENTION OF VAPOR LOCK IN GASOLINE LINES AND THE LIKE

Albert F. Carpenter, Chicago, Ill.

Application December 3, 1941, Serial No. 421,450

3 Claims. (Cl. 183—2.5)



1. A device for the prevention of vapor lock in gasoline lines comprising, a conduit providing a passage for the gasoline and being equipped with a single small opening in the upper surface thereof, a casing received about said conduit and sealed thereto, said casing providing a closed chamber containing air and communicating with said opening and extending upwardly and downwardly therefrom, said opening being disposed in the central portion of the chamber whereby at least half of the volume of the chamber is below said opening.

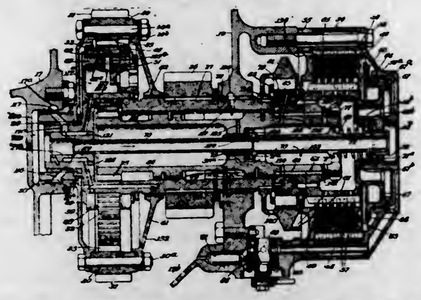
2,403,579

LUBRICATING SYSTEM FOR TWO-SPEED TRANSMISSIONS

John H. Carpenter, Williamsport, Pa., assignor to The Aviation Corporation, New York, N. Y., a corporation of Delaware

Application December 18, 1943, Serial No. 514,731

19 Claims. (Cl. 184—6)



1. In a two-speed transmission for driving the impeller of a supercharger comprising a hollow input shaft, a plurality of bearings for the input shaft, a sun-gear, a shaft for the sun-gear extending through the input shaft, bearings for the sun-gear shaft in the input shaft, planet gears carried by the input shaft, an output gear-ring rotatable relatively to the input shaft and provided with a gear engaged by the planet gears, a clutch for locking the sun-gear and its shaft against rotation, and a clutch for driving the sun-gear shaft from the input shaft; a lubricating system comprising means for delivering oil under pressure to the engaging surfaces of the bearings for the input shaft, means for delivering oil from one of the bearings for the input shaft to the bearings for the sun-gear shaft in the input shaft, and means for delivering oil from the engaging surfaces of the other bearing for the input shaft through the sun-gear shaft to one of the clutches.

2,403,580

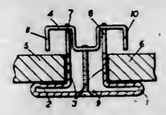
WALLS AND CEILINGS OF BUILDINGS

Harold Norman Cartwright, Solihull, James Gwyn Davies, Birmingham, and Reginald Harry Patterson, Solihull, England

Application February 5, 1944, Serial No. 521,180

In Great Britain June 24, 1943

4 Claims. (Cl. 20—4)



1. A method of fixing building boards to rails having two upstanding legs between which there is a groove in which board-retaining clips are housed and having also flanges on which said boards rest prior to the engagement of said clips with said boards, consisting in raising said clips in said grooves, turning them through an angle so that they project beyond said grooves, and lowering them to engage said boards.

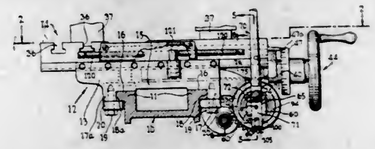
2,403,581

CROSS SLIDE

Secondo L. Casella, New York, N. Y., assignor to Morey Machinery Co., Inc., New York, N. Y., a corporation

Application August 6, 1943, Serial No. 497,620

5 Claims. (Cl. 82—24)



1. In a cross slide, a saddle, a slide slidably mounted thereon, a rack slidably mounted relative to said slide, screw threaded means rotatably and non-slidably connected to the slide and having threaded engagement with said rack, a shaft on said saddle, a gear on said shaft meshing with said rack, and a lever on said shaft for rotating the same about its axis, said lever being pivoted to said shaft about an axis perpendicular to and intersecting the longitudinal axis of said shaft, a fixed brake member fixed to said saddle, an expandible brake member keyed to the shaft and rotatable therewith and disposed within the first brake member, and means on the lever to expand the second brake member and cause it to grip the first brake member.

2,403,582

POWER HAMMER

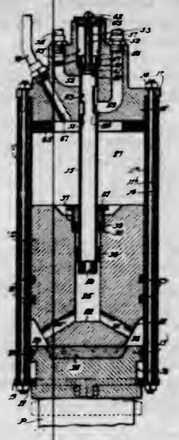
Howard F. Caudill, Oak Park, Ill., assignor to Western Foundation Company, Chicago, Ill., a corporation of Illinois

Application September 16, 1942, Serial No. 458,491

7 Claims. (Cl. 121—30)

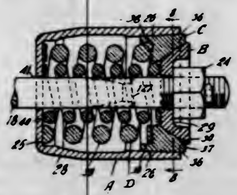
7. In a power hammer, the combination of a cylinder, a hammer element reciprocating in said cylinder, a working chamber defined between said hammer element at one end of said cylinder, valve means controlling the admission and exhaust of working fluid to and from said working chamber, a cushioning chamber defined between said hammer element and the other end of said cylinder, said cushioning chamber being isolated from said working chamber and from said valve means whereby the working fluid does not enter

said cushioning chamber, and a cushioning bumper member in said cushioning chamber for



cushioning any over travel of said piston member into said cushioning chamber.

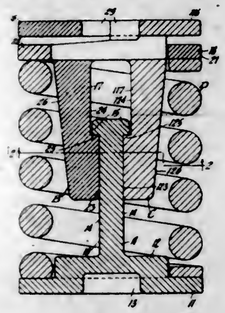
2,403,583
RAILWAY DRAFT RIGGING
George E. Dath, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application June 28, 1943, Serial No. 492,478
4 Claims. (Cl. 213—34)



1. In a draft rigging for a railway car provided with an underframe structure, including an end sill and a front stop member, the combination with a casing open at one end and closed at the other end, said closed end abutting said front stop of the underframe structure; of a drawbar extending through said end sill, front stop, and casing, said drawbar being movable lengthwise of the casing; friction shoes within the casing surrounding said drawbar, said shoes having frictional engagement with the interior walls of the casing; a wedge block on said drawbar, said drawbar having shouldered engagement with the wedge block to move the latter inwardly of the casing in draft, said wedge block having wedging engagement with the shoes to force the same against the friction surfaces of the casing and along said walls; and spring means within the casing opposing inward movement of the shoes.

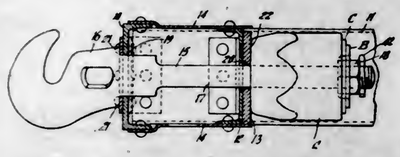
2,403,584
FRICTION SHOCK ABSORBER
George E. Dath, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 7, 1944, Serial No. 521,329
7 Claims. (Cl. 267—9)

1. In a friction shock absorbing mechanism, the combination with a friction post having longitudinally extending friction surfaces; of a pair of friction shoes embracing said post and having lengthwise slidihg engagement with the friction surfaces thereof, each shoe having a follower member at the outer end thereof, said follower member being at one side of said shoe;



a laterally projecting lever arm on the other side of said shoe; and spring means surrounding said post and shoes and opposing relative lengthwise movement thereof toward each other, said spring bearing on the lever arms of the shoes to tilt the same against said post.

2,403,585
DRAFT GEAR
George E. Dath and Roland J. Olander, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 17, 1943, Serial No. 495,092
7 Claims. (Cl. 213—34)



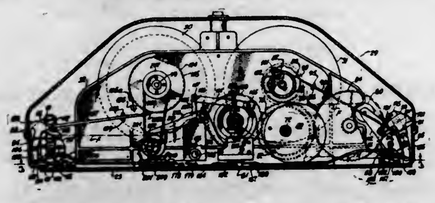
1. In a railway draft rigging for a railway car having a front stop, the combination with a friction casing having one end closed and the other end open, said closed end bearing on the front stop of the car; of friction shoes having sliding engagement with the interior walls of said casing; spring means opposing inward movement of said shoes; a block having wedging engagement with the shoes; spaced inner and outer stops on the casing; projecting stop lugs on said block engageable with said inner and outer stops for limiting inward and outward movement of said wedge block; and a drawbar extending through said casing, spring means, and block and having shouldered engagement with the latter to pull the same inwardly of the casing in draft.

2,403,586
REFINING OF NONFERROUS METALS
Louis S. Deitz, Jr., Westfield, N. J., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 31, 1939, Serial No. 292,873
9 Claims. (Cl. 204—123)

1. The process of refining metal consisting principally of tin and lead and containing a minor quantity of metal of the group consisting of copper and antimony, which comprises incorporating

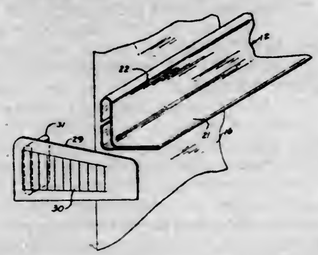
such a quantity of aluminum in said metal as to constitute from about 0.2% to about 0.5% of the resulting alloy, and electrolyzing anodes of the resulting aluminum-bearing alloy in an electrolyte whose principal electrolytic agent is an aromatic sulphonic acid to cathodically deposit a substantially pure tin-lead alloy, the aluminum being present in the anodes in an amount sufficient to prevent the occurrence in the anode slimes of a material quantity of tin which would otherwise be precipitated in said slimes.

2,403,587
CAMERA MAGAZINE
Irving W. Doyle, Massapequa, and Reginald A. White, Pleasantville, N. Y., assignors to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application November 13, 1943, Serial No. 510,146
10 Claims. (Cl. 95—34)



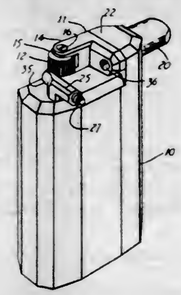
1. In camera construction, in combination, a cone member having a ledge formed on the top thereof, a film magazine member including a bottom casting adapted to be supported on said ledge, means on one of said members for detachably connecting both of said members, means in said magazine forming a focal plane in which a film is adapted to be positioned for exposure, means forming light locks at opposite ends of said focal plane and movable into engagement with said focal-plane means to preclude entrance of light thereby into said magazine, and means on said magazine engageable with said first-mentioned means upon movement thereof to detach said members for effecting movement of said light lock means into engagement with said focal plane means.

2,403,588
REFRIGERATOR CABINET
Earl D. Drake, Greenville, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application December 23, 1944, Serial No. 569,454
4 Claims. (Cl. 248—248)



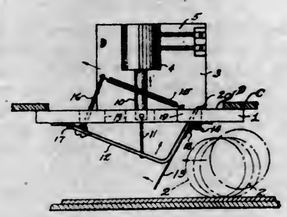
1. In a cabinet, an upright wall, a horizontally elongated shelf support comprising a generally tubular attaching portion having a longitudinal slot therein defined by parallel substantially coplanar flanges juxtaposed to said wall, and fastening means attaching said shelf support to said wall, said fastening means comprising a fastener having a head in said hollow portion and a shank extending outwardly through said slot and secured to said wall, the head of said fastener resiliently engaging the inner surfaces of said flanges.

2,403,589
POCKET LIGHTER
Lawrence L. Dritz, Lawrence, N. Y.
Application April 14, 1945, Serial No. 588,383
6 Claims. (Cl. 67—7.1)



3. In a pocket lighter, a container, a holder, means on said container mounting said holder for sliding movement in a plane above the top of the container, said holder having an opening therein, a pyrophoric element disposed in said opening and protruding therefrom, and an abrasive wheel rotatably mounted on one end of said holder, a spring disposed in said opening resiliently engaging said pyrophoric element to thereby urge the same into contact with the wheel, a wick tube swingably mounted in the top wall of the container and having an angulated terminal portion adapted to be turned to and from the path of movement of said holder and to and from a relation projecting outwardly beyond one side of the lighter, and a wick arranged in said tube and protruding from one end thereof and said terminal portion of the wick tube being engageable by said holder for manually swinging said terminal portion from said projecting relation into longitudinal relation with the holder.

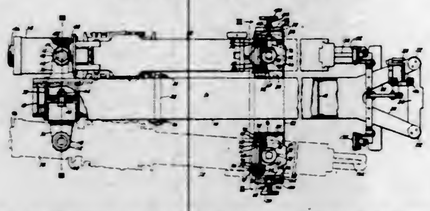
2,403,590
BALL HOLDING AND BALL RELEASE MECHANISM
Isadore Edelman, Detroit, Mich.
Application June 25, 1945, Serial No. 601,477
1 Claim. (Cl. 193—40)



A unitary ball holding and release mechanism comprising a panel adapted to be mounted adjacent a ball track, an electromagnet mounted on one side of said panel, a ball holding gate hingedly mounted on the other side of said panel, a gate holding bar hingedly mounted on the gate side of the panel and having a stop portion passing

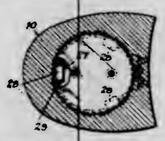
through said panel to engage the magnet side of the panel, a plunger passing through the panel to connect the magnet to the gate holding bar, a rod secured to the bar and passing through the panel to a point near the magnet, and a spring secured to the magnet side of the panel and to the rod at a point near the magnet for normally biasing the bar into gate holding position, said spring being arranged to be overcome upon energization of the magnet which moves the bar out of gate holding position, and a stop for limiting movement of the gate from the ball release position past the ball holding position under bias of the spring, said panel having clearance openings for the stop portion of the bar, for the plunger, and for the rod.

2,403,591
MOUNT FOR MACHINE GUNS
John M. Ewart, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 14, 1944, Serial No. 522,325
16 Claims. (Cl. 89—37)



1. A mount for two machine guns comprising an adaptor, a pair of yoke members rotatably mounted on the adaptor, means for pivotally and adjustably mounting the front ends of a pair of machine guns on the yoke members, a pair of carriage members adjustably mounted on the adaptor, and means associated with the carriage members for slidably and pivotally supporting the back ends of said machine guns.

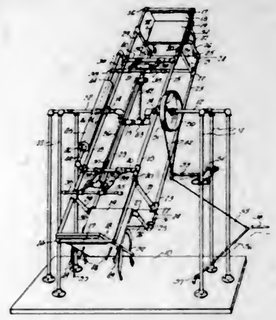
2,403,592
DETACHABLE HEEL
Arthur Fisk, New York, N. Y., assignor of one-half to Bradley Mahler, Detroit, Mich.
Application October 17, 1944, Serial No. 558,982
1 Claim. (Cl. 36—36)



A heel construction comprising a fixed heel member and a detachable tread member, said heel having a recess in the bottom thereof and a circular contractable clamp in said recess, said tread having a raised circular upper portion which said clamp is adapted to engage, said clamp being provided with inner teeth which engage correspondingly spaced and dimensioned recesses formed in said raised circular portion.

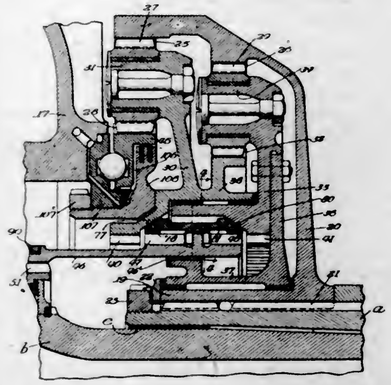
2,403,593
AMUSEMENT DEVICE
Robert B. W. Franklin, Dallas, Tex.
Application September 9, 1944, Serial No. 553,324
5 Claims. (Cl. 272—33)

5. A riding device including a frame having seats accommodating two passengers, and mounted on a horizontal axis, the latter having a crank pin, and hand bars arranged relative to said



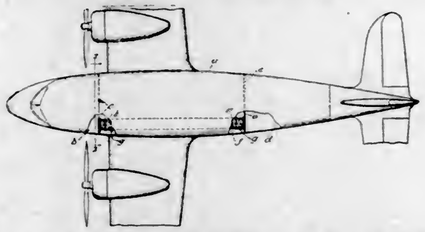
seats to cause the passengers therein to involuntarily propel said frame around said axis.

2,403,594
CLUTCH MECHANISM FOR VARIABLE-SPEED GEARING
Ernest T. Gilliard, Trout Run, Pa., assignor to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application July 4, 1945, Serial No. 603,161
10 Claims. (Cl. 192—53)



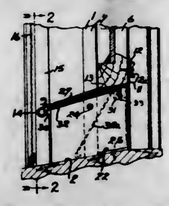
1. Clutch mechanism for variable speed driving comprising, a pair of wheels, each provided with an annular series of clutch-teeth, a clutch-sleeve axially slidable relatively to the wheels and provided with a pair of annular series of external clutch-teeth, spaced apart longitudinally, for slidable meshing with the teeth on the wheels, respectively, a balk-ring extending circumferentially around the clutch-teeth on the sleeve, and relatively to which the sleeve is rotatable and slidable, provided with a circumferential series of internal teeth adapted to alternately mesh with, and to pass axially between the teeth of, the pair of series of clutch-teeth on the sleeve, upon relative axial movement of the balk-ring and the sleeve, abutments on the outer periphery of the clutch-sleeve axially disposed between the series of clutch-teeth on the sleeve engageable with and circumferentially spaced between some of the teeth on the balk-ring for limited relative rotation when the teeth on the balk-ring are positioned axially between the series of clutch-teeth on the sleeve, and friction-means between the balk-ring and the wheels, respectively, for producing relative rotation of the balk-ring and clutch-sleeve to alternately move the teeth on the balk-ring into axially abutting relation with one series, and into axially aligned relation with the spaces between the teeth of the other series, of the clutch-teeth on the sleeve and controlling relative axial sliding movement for meshing the clutch-teeth on the sleeve and the wheels.

2,403,595
AIRCRAFT
Henry K. Growald, Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, a corporation of Delaware
Application December 31, 1942, Serial No. 470,843
14 Claims. (Cl. 244—118)



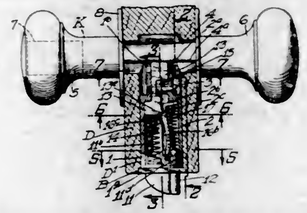
1. An airplane comprising: rigid bulkheads for compartments which are spaced apart and adapted to be pressurized for altitude flying and occupancy by personnel; and a tubular conduit for transportation of loads or personnel extending between the bulkheads, said conduit including a collapsible member of flexible material, and airtight joints connecting the ends of the flexible member to said bulkheads, respectively, said member being collapsible transversely of the conduit intermediate said ends to reduce the area in the space between the bulkheads occupied by the conduit when it is not pressurized.

2,403,596
VENTILATOR
Wilson W. Hargrett, Wyandotte, Mich.
Application December 8, 1944, Serial No. 567,200
2 Claims. (Cl. 98—99)



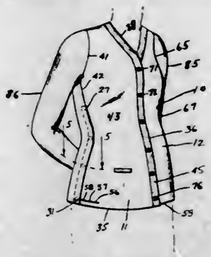
1. A ventilator comprising supports including angle-shaped vertical portions, feet projecting from the lower extremities of said portions for attachment to opposite sides of the base of an opening formed in a window frame, one flange of each angle-shaped portion lying contiguous to the inner face of a stile groove formed in the frame and the other flanges resting against strips defining the stile grooves, tongues on said supports extending into the stile grooves, a deflector plate in the frame opening spaced above the bottom thereof, said plate having other tongues on its extremities supported on the first named tongues, flexible pads wider than said tongues arranged between the upper and lower tongues, said plate having a ledge formed along it to support a sash movable in the stile grooves, an upward flange extending from the inner margin of the ledge to rest contiguous to the inner face of the sash, and the deflector plate extending downwardly and outwardly from the ledge to form an air passage between it and the underside of the frame opening.

2,403,597
DOOR LOCK
Carl A. Hillgren, Los Angeles, Calif.
Application May 8, 1944, Serial No. 534,614
8 Claims. (Cl. 292—169)



1. In a door lock, a latch housing, a main latch member movably mounted therein, a retractor, an auxiliary latch member associated with the main latch member and adapted to be retracted therewith and also to be shifted inwardly independently thereof, a dogging member pivoted within the inner end of the housing adapted to be shifted by the movement of the auxiliary latch member, with its free end into dogging engagement with the inner end of the main latch member, an operating member slidably mounted at the inner end of the housing and shiftable by the retractor, and a rocker pivotally mounted intermediate its ends within and on the housing and engageable at its opposite ends by the main latch member and the operating member, said operating member engaging the dogging member whereby the free end of the latter is shifted from the path of movement of the main latch member to allow retraction of the latter.

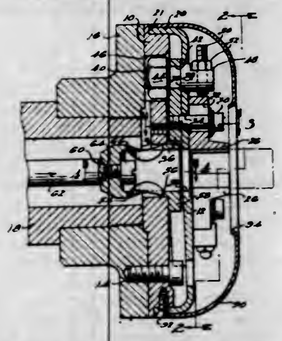
2,403,598
GARMENT CONSTRUCTION
Patricia Hochfelder, Woodmere, N. Y.
Application September 26, 1944, Serial No. 555,792
1 Claim. (Cl. 2—93)



An adjustable garment comprising: a back section; a plurality of buttons associated with two vertical edges of said back section; a first front section, generally triangular in shape, including a substantially triangular adjustable tab provided with button holes in the two outer edges thereof, the button holes on one of the edges of said triangular adjustable tab being adapted to register with the buttons on one of the edges of said back section, the button holes on the bottom edge of the triangular adjustable tab being adapted to register with the bottom button on said back sec-

tion for circumferential adjustment of the lower portion of the garment; a second front section oppositely and symmetrically arranged with respect to the first front section and being generally triangular in shape including a second substantially triangular adjustable tab provided with button holes at the two outer edges thereof, the button holes on one of the edges of the second adjustable tab being adapted to register with the buttons on one of the edges of said back section, the button holes on the bottom edge of the second tab being adapted to register with the bottom button on the other edge of the said back section for circumferential adjustment of the garment; and means to detachably interconnect the forward free edges of the first and second front sections.

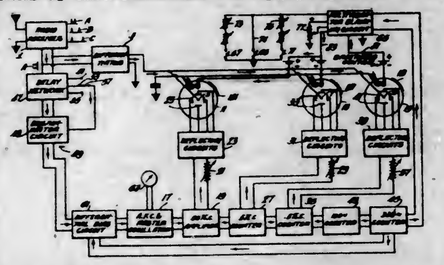
2,403,599
DIAPHRAGM CHUCK
George Hohwart, Orchard Lake, Ernest F. Hohwart, Detroit, and Joseph B. Buckley, Ferndale, Mich., assignors to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan
Application November 11, 1944, Serial No. 563,056
9 Claims. (Cl. 279—46)



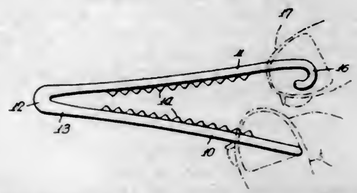
1. In a diaphragm chuck, in combination, a backing member, a diaphragm secured at its peripheral marginal edge portion to said backing member, a plurality of clamping jaws mounted on the axially outer face of said diaphragm for movement radially thereof, means for clamping said jaws to said diaphragm comprising a bolt projecting through each of said jaws in parallel relation with respect to the axis of rotation of said chuck and nuts on the rear face of said diaphragm each threadably receiving one of said screws, said nuts being extended radially from their corresponding bolts, an abutment member in radially outwardly spaced relation with respect to each of said jaws, said abutment members projecting through said diaphragm and through the radially outer end of the corresponding of said nuts, screw means securing each said abutment member to said corresponding nut, and adjustable stop means carried by each said abutment member and operatively engaging the corresponding of said jaws.

2,403,600
RECEIVER FOR PULSE POSITION INDICATING SYSTEMS
Ralph S. Holmes, Haddonfield, and John P. Smith, Erlton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,928
12 Claims. (Cl. 250—11)

1. A radio pulse position indicating device including means for receiving pulses of radio energy radiated in predetermined relation from a plurality of known locations, a source of local oscillations, a timing indicator, means connecting said source and said indicator for applying said oscillations to drive said indicator at a substantially constant rate, means for generating blanking pulses, means connecting said blanking pulse means to said indicator for applying said blanking pulses to said timing indicator to eliminate all but a predetermined portion of said timing indications, and means connecting said receiving means to said indicator for applying said received pulses to said indicator to indicate the differences in times of said pulse reception thereby to indicate the position of said receiver with respect to said known locations.



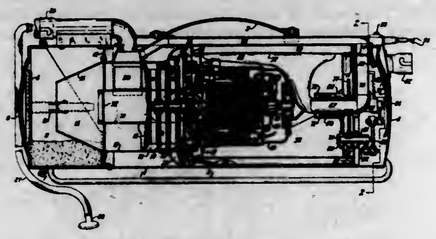
2,403,601
HAIR-GRIP PIN
Jules Jackson, New York, N. Y.
Application February 9, 1943, Serial No. 475,249
2 Claims. (Cl. 132—48)



2. An integral hair-grip pin comprising a pair of generally parallel shanks connected by a hair-pin turn, said shanks being of thickness progressively increasing near the root ends thereof to maximum thickness at said hair-pin turn, intermeshing teeth unitary with and protruding from the inner faces of the respective shanks beyond said root ends, said teeth being of uniform width and height, means clamping the pin in closed position when in use, said teeth being of thickness less than the width and midway between the lateral edges of the shanks, so that in closed position they determine with the shanks a stiffened I-beam structure.

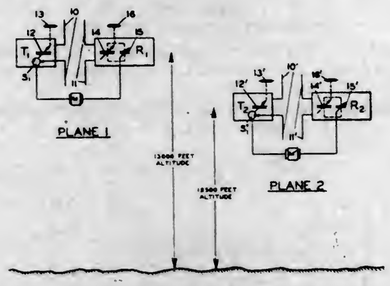
2,403,602
SUCTION CLEANER
William H. Kitto, Greentown, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 28, 1944, Serial No. 520,043
8 Claims. (Cl. 183—57)

1. In a suction cleaner of the type having an initial dirt separator, a suction-creating fan unit to draw air into and through said initial separator, and a final dirt separator to receive air exhausted from said fan unit; a motor to drive said fan unit including a plurality of individually rotatable electric-current-carrying parts, one of said rotatable parts being connected to said fan unit to actuate same, and cleaning means for



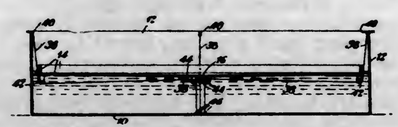
said final dirt separator connected to a second rotatable part of said motor and actuated thereby.

2,403,603
WIRELESS COMMUNICATION
Arthur Korn, Hoboken, N. J., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application February 5, 1941, Serial No. 377,516
21 Claims. (Cl. 250—11)



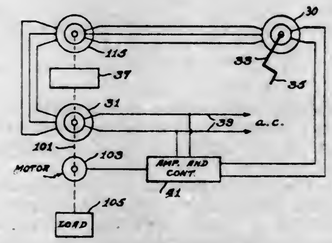
1. The method of communication between aircraft which includes transmitting wireless signals of a carrier frequency within the limits of a predetermined band; varying said frequency within said band in dependence on the altitude of the transmitting craft; modulating said carrier frequency by a modulating frequency; and varying said modulating frequency in dependence on the azimuthal direction of flight of said transmitting craft.

2,403,604
STORAGE TANK FOR OILS AND OTHER LIQUIDS
Wilbur G. Laird, Pleasantville, N. Y.
Continuation of application Serial No. 329,875, April 16, 1940. This application May 1, 1943, Serial No. 485,310
2 Claims. (Cl. 220—26)



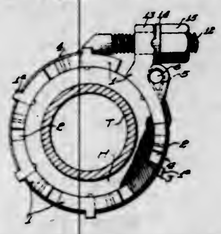
1. An apparatus for holding liquids which comprises an upright open-topped cylindrical tank capable of withstanding the hydrostatic head of liquid stored therein, a buoyant floatable sheet metal deck within said tank adapted to be floated by the liquid in the tank in a substantially horizontal position under normal conditions, said deck being of sufficient area to substantially cover the liquid in the tank but of sufficiently smaller diameter than that of the tank to leave a narrow annular space between the outside edge of the deck and the inside of the tank wall in which liquid displaced by the deck may rise freely and by which vapor evolved from the liquid in the tank may escape, the said deck having an outside rim extending substantially above the normal level of the liquid in said annular space when said deck is floating, said deck being normally freely movable vertically in the tank, and safety means for restraining said deck from any substantial tipping from its normal substantially horizontal floating position on the liquid in the tank which may be caused by ice formation, unequal loading of the deck by snow, sleet, dirt, leakage and other abnormal causes, said means comprising flexible cable stabilizing means mounted at distributed positions around said deck and tank with selected cable portions fixed at predetermined points and with other cable portions held in movable relation to other points by means of sheaves attached to the apparatus at said other points and on which portions of cable move, a cable portion associated with each of said distributed positions being attached to said deck at two substantially spaced points and arranged to prevent one of said last-mentioned points from substantially changing its vertical position with respect to the other of said last-mentioned points, said flexible cable stabilizing means being arranged in such a way as to permit the free normal vertical and sidewise movement of the deck on the liquid on which it floats.

2,403,605
SPEED AND ACCELERATION RESPONSIVE DEVICE
Robert N. Lesnick, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 1, 1942, Serial No. 449,231
3 Claims. (Cl. 172—239)



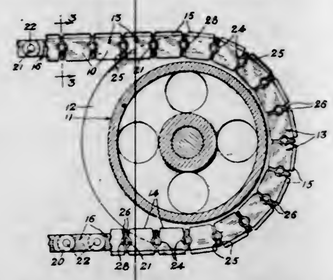
1. In a servo system including a control shaft, a controlled shaft, means for comparing the angular positions of said shafts, means for deriving a force related to the difference in said positions and applying said force to said controlled shaft so as to drive said controlled shaft toward a position corresponding to that of the control shaft, means for deriving auxiliary forces related in magnitude and direction to the velocity and to the acceleration of said controlled shaft comprising differential means connected to said controlled shaft and connected to drive a mechanical load comprising inertia and friction elements against a resilient restraining member, and means for deriving said auxiliary forces in response to the displacement of said restraining member.

2,403,606
HOSE CLAMP
Gerhard Meyer, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application March 8, 1943, Serial No. 478,449
15 Claims. (Cl. 24—19)



1. A hose clamp comprising: a plurality of segmental shoe elements; links interconnecting said shoe elements circumferentially in end-to-end spaced relationship and with limited freedom for circumferential movement with respect to one another to permit radial movement of said elements toward a common center; a constricting band encircling said shoes and freely slidable thereon; and means for constricting said band.

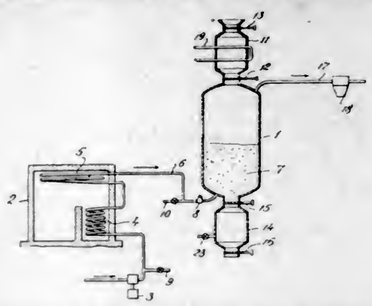
2,403,607
V-BELT CONSTRUCTION
Helmer Ogard, Chicago, Ill., assignor to Armstrong-Bray & Co., Chicago, Ill., a corporation of Illinois
Application December 21, 1942, Serial No. 469,588
8 Claims. (Cl. 74—236)



1. A V-belt comprising a plurality of chain links each having a bifurcated end straddling the other end of the adjacent link, cross-pins pivotally connecting the overlapping ends of said links with their ends projecting laterally from the links, blocks of yieldable friction material each carried by one of said links and having end recesses receiving said overlapping ends, and a buttress plate disposed between the ends of adjacent blocks and having depressions therein providing seats for said pin ends, whereby the frictional forces applied to said blocks will be transmitted to said pin through the medium of said plate.

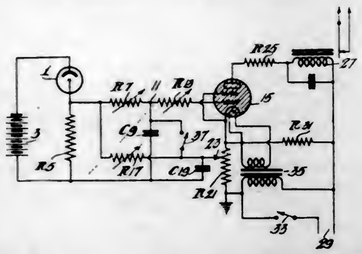
2,403,608
METHOD OF COKING OILS
John W. Payne, Woodbury, Henry D. Noll, Wenonah, and Vladimir A. Kalichevsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application December 19, 1940, Serial No. 370,812
3 Claims. (Cl. 196—55)

1. A method for preparing charging stock for catalytic cracking which comprises heating a petroleum charging stock to a temperature sufficient to cause distillation to coke, introducing said stock into and passing it in counter-current flow through a zone of moving granular contact mass material, maintaining said zone substantially free



of combustion supporting gas, and collecting the overhead distillate substantially free of coke-forming constituents so that it may be used as a charging stock in catalytic cracking with greatly reduced catalyst contamination.

2,403,609
PHOTOELECTRIC SYSTEM
Theodore B. Perkins, West Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 19, 1942, Serial No. 469,757
7 Claims. (Cl. 250—41.5)

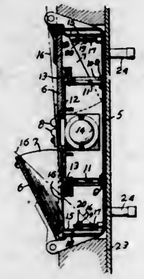


1. A photoelectric relay device including a gaseous discharge tube provided with a control grid, a cathode and an anode, a pair of time delay networks having different delay constants, and each having an input circuit and an output circuit, said output circuits being connected in series between said control grid and said cathode, and a photoelectric cell connected to said input circuits in parallel.

2,403,610
LANDING-DECK LIGHT
Alfred M. Pride, United States Navy
Application March 1, 1932, Serial No. 596,090
4 Claims. (Cl. 240—1.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

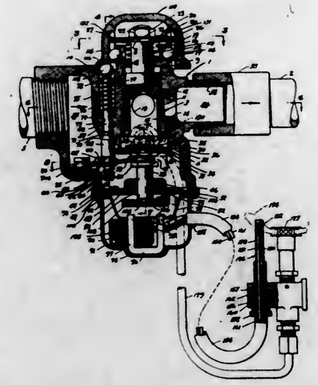
1. An illuminated marker, comprising a housing, members adapted to close substantially one side of said housing and hingedly mounted on said housing, said members having inturned end portions and springs connected to the hinges thereof tending to move said members outwardly, means having transparent side walls and forming a water-tight compartment in said housing, illuminating devices in said compartment, a slidably mounted element disposed to contact each of said members, each of said elements having a

reflecting surface facing said illuminating devices to reflect light outwardly and upwardly when the first mentioned member is swung outwardly, guide members in said housing adjacent said elements, a spring on each of said guide members, an eye slidable on each of said guide members between the spring thereon and the



free end thereof and connected to the adjacent slidable element whereby said slidable element is urged upwardly by said springs to exert a lifting force on the first mentioned member, and adjustable stop means on the free ends of said guide members to limit the movement of the eyes thereon.

2,403,611
RESET VALVE AND CONTROL THEREFOR
William A. Ray, Glendale, Calif., assignor to General Controls Co., a corporation
Application February 4, 1941, Serial No. 377,274
12 Claims. (Cl. 137—144)



1. In a fuel valve structure, a rotary plug, a valve body forming a seat in which said plug is accommodated, said plug being operable to control the passage of fuel by way of the plug, said plug having for that purpose a passageway opening in one end of the plug, said body adjacent the end of said passageway having means forming a safety valve seat, a safety valve closure adapted to cooperate with said safety valve seat and movable toward and away from the seat, a lever capable of being actuated to move said safety valve closure, means for retaining said closure in open position, means for operating the rotary plug, and means whereby said operating means may be moved while the rotary plug remains in closed position, for actuating the lever to open the safety valve.

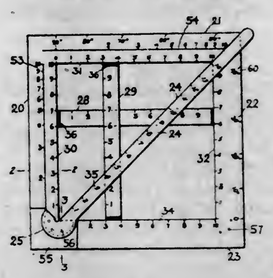
2,403,612
PROCESS FOR REMOVING GREASY DEPOSITS FROM CONCRETE, WOOD, AND TILE SURFACES
Robert L. Reynolds, Washington, D. C., and Harlan M. Rice, Syracuse, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application May 6, 1942, Serial No. 441,994
7 Claims. (Cl. 252—161)

1. A process for removing a greasy deposit from a surface soiled therewith selected from the group consisting of concrete, wood and tile surfaces which comprises applying thereto a composition comprising o-dichlorbenzene containing dissolved therein between about 1% and about 25% of a water-soluble alkyl mononuclear aromatic sulfonate detergent substantially free of inorganic salts, the alkyl side chain of which contains between 12 and 30 carbon atoms, and then flushing the greasy deposit from the surface with water.

2,403,613
PROCESS FOR REMOVING GREASY DEPOSITS FROM CONCRETE, WOOD, AND TILE SURFACES
Robert L. Reynolds, Washington, D. C., and Harlan M. Rice, Syracuse, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application May 6, 1942, Serial No. 441,995
6 Claims. (Cl. 252—161)

1. A process for removing greasy deposits from concrete garage floors which comprises applying thereto a composition comprising o-dichlorbenzene containing dissolved therein between about 1% and about 25% of a substantially inorganic-salt-free sulfonated detergent obtained by reacting the addition product of a mixture of olefins containing between 14 and 24 carbon atoms and derived from a petroleum source and a nitrosyl halide selected from the group consisting of nitrosyl chloride and nitrosyl bromide, said addition product containing a replaceable halogen, with sodium sulfite and removing inorganic salts, and then flushing the greasy deposits from the floors with water.

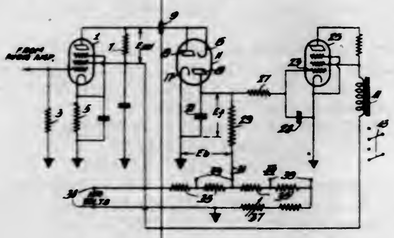
2,403,614
CALCULATING INSTRUMENT
Boris J. Ross, New York, N. Y.
Application December 4, 1943, Serial No. 512,892
1 Claim. (Cl. 33—80)



A calculating instrument comprising four legs joined at the ends and forming a square frame; an arm having a round pivot at one end; a round cage on the frame for rotatively supporting the pivot, the axis of rotation of the pivot passing through the point of intersection of the inner

edges of two adjacent legs and of one edge of the arm, the pivot and the cage having a cut-out portion extending to the center of rotation of the pivot to maintain the said point of intersection of the three edges exposed for all positions of the arm; scales having identical divisions on the two adjacent legs and on the arm, all the scales beginning at the axis of rotation of the arm, the other two arms having similar scales at the inner edges, the arm extending over one or the other of the said other two legs, depending on its position, the common zero point of each of the three converging scales being therefore readable and exposed to plotting on an underlined paper.

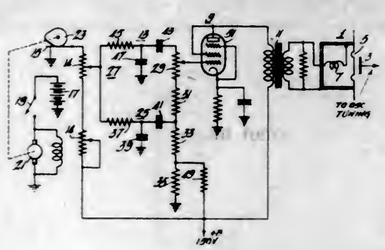
2,403,615
FREQUENCY RESPONSIVE CIRCUIT
Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1942, Serial No. 467,445
3 Claims. (Cl. 175—320)



1. A frequency responsive relay system comprising a limiter, a rectifier coupled to the output of said limiter through a capacitor, a second capacitor in series with said rectifier, a discharge path for said second capacitor including a direct current source connected to oppose the voltage produced across said second capacitor by the current flowing through said rectifier, a second rectifier connected across said second capacitor and said first rectifier and poled oppositely thereto, an amplifier tube with its control grid coupled to said discharge circuit, a relay connected in the anode circuit of said amplifier tube, and means for adjusting the voltage of said direct current source which is applied to said discharge circuit, whereby said voltage overcomes the voltage produced across said second capacitor at a predetermined frequency of input to said limiter.

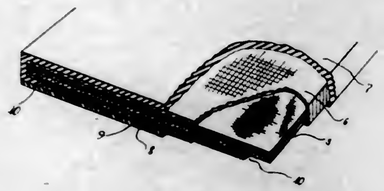
2,403,616
WAVE SHAPING CIRCUIT
Royden C. Sanders, Jr., Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 25, 1944, Serial No. 546,537
6 Claims. (Cl. 172—239)

3. In a modulator for radio reflection system including a vibratory variable capacitor with an electrical actuator, a system for energizing said actuator, including a source of square wave voltage, a voltage integrating network comprising a resistor and a capacitor connected in low pass filter configuration and a voltage differentiating network comprising a resistor and a capacitor connected in high pass filter configuration, both of said networks being connected to said square wave source, a voltage combining circuit including at least one resistor connected across the output of one of said networks and at least one other resistor connected between one output terminal of said differentiating network



and one output terminal of said integrating network, an adjustable tap on said latter resistor, and means for energizing said actuator in response to the voltage between said tap and another point in said combining circuit.

2,403,617
BELT
Fred G. Skeyhan, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 25, 1943, Serial No. 500,013
4 Claims. (Cl. 74—232)



1. A belt comprising a body of reinforcing material having a longitudinally extending rabbet in a margin of a face thereof open to said face and the edge of said body, and a covering of rubber-like material extending entirely about said body and having a longitudinally extending lapped splice seated in said rabbet thereby providing increased corner edge thickness of said rubber-like material as compared to other portions of said covering, said belt being a vulcanized unitary construction.

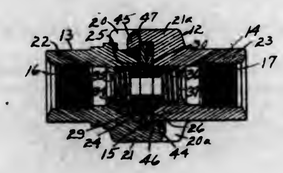
2,403,618
LIQUID CLEANING COMPOSITIONS
George M. Skinner, Kenmore, N. Y., assignor to National Carbon Company, Inc., a corporation of New York
No Drawing. Application April 8, 1942, Serial No. 438,077
5 Claims. (Cl. 252—118)

1. A cleaning composition for removing sludge from internal combustion engines consisting of a homogeneous liquid mixture of a solvent composed of a glycol monoalkyl ether and a higher molecular weight aliphatic ketone, in appreciable component proportions and in total amount of about 50% to 80% by volume; a lubricating oil in an amount from about 15% to 25%; about 5% to 25% of water; and about 5% to 20% of a morpholine soap coupling agent.

2,403,619
LIQUID CLEANING COMPOSITION
George M. Skinner, Kenmore, N. Y., assignor to National Carbon Company, Inc., a corporation of New York
No Drawing. Application April 22, 1943, Serial No. 484,067
2 Claims. (Cl. 252—118)

1. A cleaning composition for removing sludge from internal combustion engines consisting of a homogeneous liquid mixture of a solvent composed of ethylene glycol monoethyl ether acetate and ethylene glycol monobutyl ether, in appreciable component proportions and in a total amount of about 50% to 80% by volume; a lubricating oil in an amount from about 15% to 25%; about 4% to 25% of water; about 5% to 20% of morpholine oleate; and not more than about 10% oleic acid.

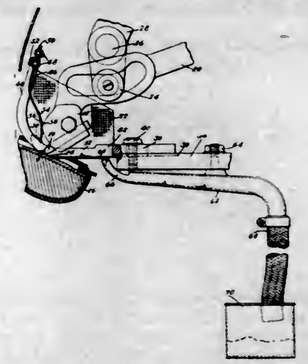
2,403,620
ALIGNING AND DETENT MEANS FOR QUICK DISCONNECT COUPLINGS
Jacob Rush Snyder, Cleveland, and James Frederick Norton, Cleveland Heights, Ohio, assignors to Thompson Products, Inc., a corporation of Ohio
Application December 11, 1943, Serial No. 513,900
11 Claims. (Cl. 284—4)



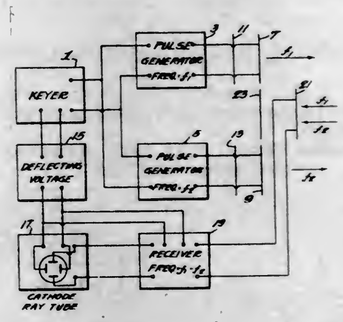
1. A detachable coupling comprising a pair of ported coupling boxes each having supports thereon, a plurality of apertured members at least one of which is shiftably mounted in each support for covering and uncovering the port in said coupling box, said members having means thereon which mutually interfit and engage the supports of the other coupling box to lock said coupling boxes together when the ports in said boxes are uncovered and to disconnect said coupling boxes and disassemble said apertured members from each other when the ports in said boxes are covered, means on each of the coupling boxes which coacts with its respective apertured member to permit a restricted relative movement of said member with respect to its coupling box when the coupling boxes are uncoupled, and means associated with each of the coupling boxes for removing the restraint of the retaining means from the apertured member supported by the other coupling box when the boxes are placed in coupling relation.

2,403,621
FASTENING PULLING MACHINE
Lawrence E. Steimen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 10, 1945, Serial No. 604,217
6 Claims. (Cl. 12—16)

1. A fastening pulling machine comprising a pulling tool mounted for movement in an orbital path, a work rest adjacent to the path of the tool and having portions extending upon opposite sides of the path, supporting members extending upwardly from the work rest, and a leaf spring pivotally mounted at the upper ends of the supporting members and constructed and arranged substantially to span the space between the members for arresting forward movement of fastenings pulled from the work by the tool.



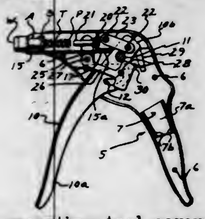
2,403,622
OBSTACLE DETECTING SYSTEM
Clarence D. Tuska, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1938, Serial No. 222,088
4 Claims. (Cl. 250—11)



1. In an obstacle detector system, the combination of a keyer, a pair of pulse generators of radio energy of different frequency, means connecting said keyer and said generators whereby said generators are simultaneously keyed, means for directively radiating said keyed pulses of radio energy, said radiation having different field patterns and a portion thereof overlapping, and means for receiving said pulses after reflection from said obstacle, said receiving means being responsive to currents of the difference frequency of said first mentioned frequencies and being unresponsive unless said currents of both frequencies are simultaneously applied.

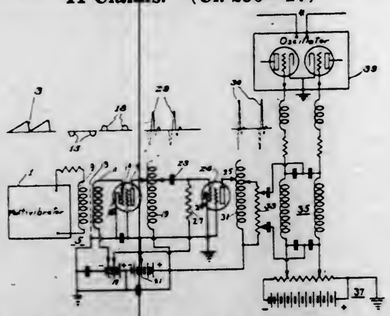
3. The method of detecting objects by means of pulses of radio energy which includes radiating pulses of radio frequency energy in different directions, each of said pulses comprising a train of radio frequency waves, adjusting directivity of said radiations to establish a common field, deriving currents from the reflection of said pulses, combining said currents upon simultaneous reception, demodulating said combined currents, and indicating the presence of a pulse reflecting object in said common field as a function of said demodulated currents.

2,403,623
CLAMP OPERATING TOOL
Frank C. Wallace, North Hollywood, Calif., assignor to Herman H. Helbush, Los Angeles, Calif.
Application June 26, 1944, Serial No. 542,190
4 Claims. (Cl. 29—270)



1. A clamp-operating tool comprising a body, a telescopic member carried by the body, said telescopic member consisting of a pair of elements mounted for longitudinal movement in opposite directions relative to each other, one of said elements being trough-shaped to provide a U-shaped cradle presenting stop means for stationarily retaining a clamp in position to be engaged by the other element, means for simultaneously moving said elements in opposite directions, said means including a lever, and means fulcruming the lever between its ends in the body, said lever being operatively connected to one of the elements at one side of the fulcrum and operatively connected to the other element at the other side of the fulcrum.

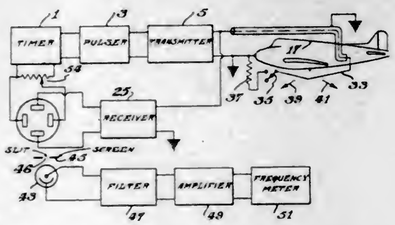
2,403,624
APPARATUS FOR AND METHOD OF PULSE KEYING
Irving Wolff, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1937, Serial No. 182,418
11 Claims. (Cl. 250—17)



1. A pulse generator device including in combination a source of rapidly varying currents, means for transforming said currents into highly damped wave trains, means for amplifying the positive pulses of said wave trains, and means for applying the amplified positive pulses to an output circuit.

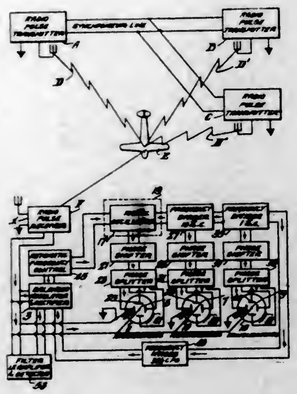
2,403,625
DRIFT INDICATOR
Irving Wolff, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1940, Serial No. 352,845
18 Claims. (Cl. 250—2)

1. A drift indicator for aircraft including, in combination, a source of pulses of radio frequency energy, means for radiating each of said pulses from radiators having a pair of relatively wide angle and divergent radiation patterns, means including said radiators for receiving said pulses of energy after reflection from a surface in one of said radiation patterns, additional means including said radiators for receiving said pulses



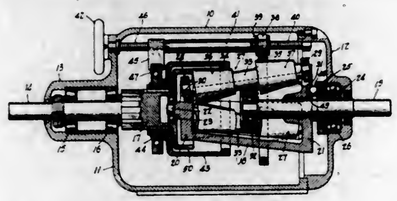
of energy after reflection from a surface in the other of said radiation patterns, means connected to said receiving means for combining said received pulses, and means including said combining means for selecting and indicating the optimum difference frequency produced by differences in the lengths of the divergent paths of said radiated and received pulses.

2,403,626
RADIO PULSE POSITION INDICATING SYSTEM
Irving Wolff and Ralph S. Holmes, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,944
10 Claims. (Cl. 250—1)



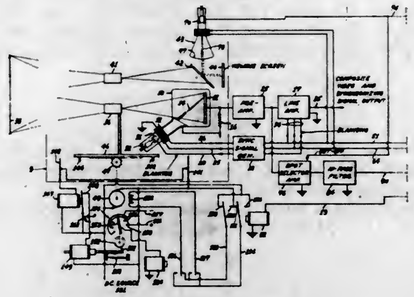
1. A radio pulse position indicating system including means for radiating synchronously discrete pulses of radio energy from a plurality of predetermined locations, remotely located receiving means including means for receiving said pulses, a source of local oscillations, a timing indicator, means connecting said source to said indicator for applying said oscillations to drive said indicator at a substantially constant rate, means connecting said receiver and local source for synchronizing said local oscillations and said pulses, and means for applying said received pulses to said indicator to indicate the differences in times of said pulse reception thereby to indicate the distance of said receiver from each of said predetermined locations.

2,403,627
VARIABLE-SPEED TRANSMISSION
Alfred G. Bade, Wauwatosa, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application April 24, 1944, Serial No. 532,394
6 Claims. (Cl. 74—281)



1. In a variable speed transmission, the combination of a planet roller maintained inclined with respect to the planetary axis thereof, a nonrotary ring in frictional rolling contact with one longitudinal portion of said roller, a rotating ring in frictional rolling contact with another longitudinal portion of said roller, the portions of said roller with which said rings contact being tapered in the same direction, and means for shifting said rings lengthwise of said rollers to vary the speed ratio of the transmission.

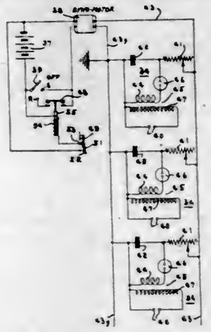
2,403,628
TELEVISION PICKUP CONTROL SYSTEM
George L. Beers, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 25, 1944, Serial No. 532,579
16 Claims. (Cl. 178—7.2)



1. In a television system, means for focusing a scene upon a light responsive area, means for focusing the scene on a viewing area, means for selecting a desired portion of the image of said scene appearing on the viewing area, and means for causing said focusing means to automatically bring the desired portion of said scene in focus.

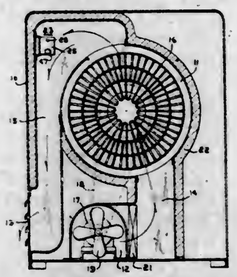
2,403,629
IGNITION SYSTEM
William E. Berkey, Wilkinsburg, and Albert E. Hershey, Pittsburgh, Pa., and Richard Lamphere, Wilbraham, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 29, 1944, Serial No. 547,260
2 Claims. (Cl. 123—148)

1. An ignition system for the combustion apparatus of a gas turbine power plant or the like comprising a first circuit connectible to a source of electricity and including a resistance and condenser connected in series, said resistance serving to determine the rate of voltage rise across said condenser, a second circuit connected across said condenser and including the primary winding of a step-up transformer and a spark gap connected in series therewith, said spark gap



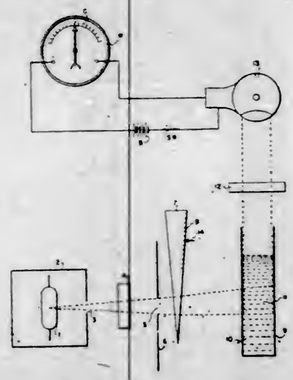
being adapted to break down at a voltage less than that impressed on said first circuit, and a third circuit including the secondary winding of the step-up transformer connected across the points of a spark plug adapted to be disposed in said combustion apparatus for ignition of fuel therein.

2,403,630
APPARATUS FOR DRYING FABRICS
Gene D. Blunk and Hilbert E. Edwards, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 8, 1943, Serial No. 509,395
4 Claims. (Cl. 34—44)



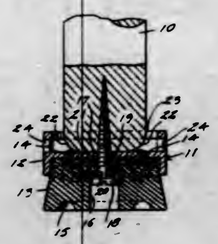
1. In apparatus for drying damp fabrics or the like, the combination of a casing having an air inlet and an air outlet, a perforate basket for containing the fabrics, said basket being arranged within the casing and movable about an axis, means translating air from said inlet through the basket and thence through said outlet for vaporizing moisture contained in the fabrics, means for heating the translated air, means for actuating the basket about its axis, a switch for controlling operation of the heating means, manually-operated means for closing the switch, a humidity-responsive element subjected to the air discharged from the basket, and means connecting the humidity-responsive element and the switch for opening the latter, said connecting means being so constructed and arranged that the switch is opened by the element only during a reduction in the humidity of the discharged air and in response to a predetermined value of the humidity of the air.

2,403,631
METHOD FOR DETERMINING THE PETROLEUM HYDROCARBON CONTENT OF EARTH SAMPLES
Charles B. Brown, McAllen, Tex.
Application July 5, 1943, Serial No. 493,606
3 Claims. (Cl. 250—83.3)



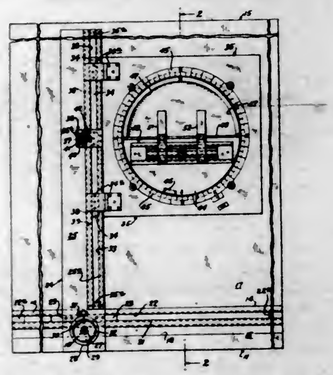
1. The method of exploring for subterranean petroleum deposits which consists in, preparing a solution containing a plurality of dissolved hydrocarbons of a measured quantity of an earth sample, subjecting a measured quantity of said solution to an ultraviolet radiation, passing the fluorescent light emanating from said solution through a plurality of spectral filters in succession, each of said filters corresponding respectively to one of a plurality of different bands of the spectrum, measuring the intensity of fluorescent light in each one of said spectral bands respectively, and in comparing the measured intensity of the fluorescent light in each spectral band with each of a plurality of empirical charts in succession respectively, each of said charts corresponding to hydrocarbons of different known concentrations.

2,403,632
CRUTCH TIP
Leo L. Brown, Harlingen, Tex.
Application January 5, 1945, Serial No. 571,467
5 Claims. (Cl. 135—53)



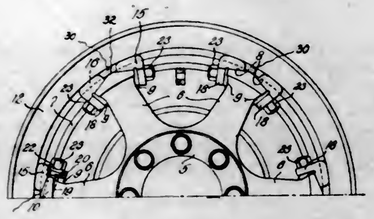
1. A crutch tip of the character disclosed for attachment to a crutch leg comprising, in combination, a resilient tip or pad, a cup-shaped washer for receiving said pad interfittingly therewith and disposed adjacent to said crutch leg, a screw having a head for attaching said pad and tip to said crutch leg, and a coil spring interposed between said screw head and said pad whereby said screw is permitted to move with respect to the washer as the crutch leg pivots thereon.

2,403,633
LAYOUT MACHINE
Edwin D. Browning, Alameda, Calif.
Application November 25, 1942, Serial No. 466,836
3 Claims. (Cl. 33—76)



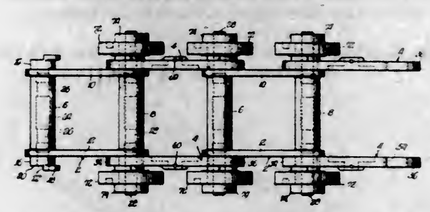
1. In a lay-out machine for precision production of tools or devices as well as the making of working drawings, a base including means for detachably fastening the machine to a workpiece or a drawing board; said base having a transverse groove and transverse recess therein, a rack mounted in said groove, a T-square comprising a head and a tongue; said head being slidably mounted in said recess, a housing depending from said tongue, a pin journaled in said housing, a gear carried on said pin in meshing engagement with said rack, and a measuring disc mounted on said pin for measuring the linear distance moved by said T-square as it is moved slidably in said recess.

2,403,634
WHEEL
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application June 11, 1945, Serial No. 598,679
14 Claims. (Cl. 301—13)



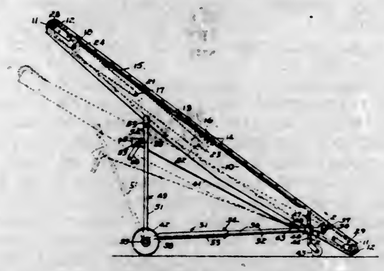
1. In a dual wheel assembly, a wheel spider having radially extending spokes provided at their ends with oppositely sloping seating surfaces extending in a circumferential direction, rim-receiving lugs adapted to seat on each surface at each spoke end, said lugs having transversely spaced rim-receiving recesses for receiving the bevel edges of opposed inboard and outboard tire rims, and radial shoulders defining the inner axial portions of said recesses to provide predetermined axial spacing of said rims on said lugs.

2,403,635
CHAIN
Bradley S. Carr, Chicago, and Arthur L. Blakemore, Glenwood, Ill., assignors to American Brake Shoe Company, a corporation of Delaware
Application March 4, 1943, Serial No. 477,946
15 Claims. (Cl. 74—254)



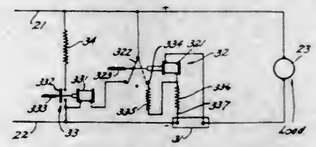
1. A chain comprising adjacently disposed frame links formed with spaced transversely disposed frame elements interconnected by spaced side frame elements, said transversely disposed frame elements extending laterally of said side frame elements and providing journal bearings, and side links having journal relation with said bearings under all operating conditions of said chain for interconnecting said frame links together, means on said journal bearings for holding said side links against lateral displacement with respect to said frame links and to hold said links against relative linear movement with respect to one another, said side links being of multi-part construction having means for assembling and disassembling the same with respect to said frame links.

2,403,636
ELEVATOR
Alfred Chantland, Badger, Iowa
Application September 21, 1944, Serial No. 555,174
3 Claims. (Cl. 198—122)



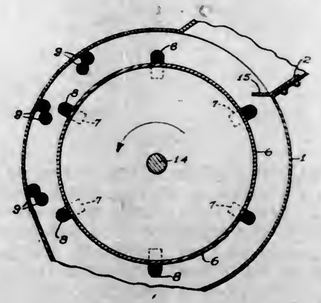
1. In an elevator comprising an elevator frame, adjustable means for supporting said elevator frame in an adjusted inclined position upwardly from one end thereof including a pair of horizontal telescoping units arranged at opposite sides of said frame and pivoted at one of their ends to said one end of the elevator frame, a shaft connected between the opposite ends of said telescoping units, a pivoted frame pivotally supported on said shaft, means at the free end of said pivoted frame adapted for bearing engagement with the under side of said elevator frame, and means for pivotally moving and holding said upright frame in a pivotally moved position to vary the angular inclination of said elevator frame, with said shaft being movable longitudinally of said elevator frame on actuation of said telescoping units to adjust the fulcrum for said pivoted frame longitudinally of said elevator frame.

2,403,637
RECTIFIER REGULATING SYSTEM
Soren L. Christie, Los Angeles, Calif.
Application December 16, 1944, Serial No. 568,463
3 Claims. (Cl. 171—229)



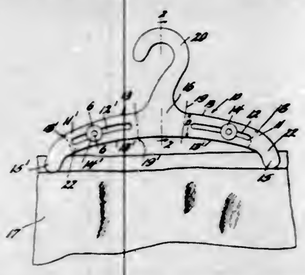
1. In an electrical system, the combination of: two supply conductors; a load connected directly to the first of said supply conductors; a shunt through which current passes to said load from the second of said supply conductors; a relay having an actuating coil connected at its first end to one terminal of said shunt; a secondary resistor connected at one end to the other terminal of said shunt and at its other end to the second end of said actuating coil; a primary resistor connected at one end to the junction of said secondary resistor and said coil and connected at its other end to a secondary contact of said relay; a primary contact; means by which said relay connects said first conductor to said primary contact whenever the coil in said relay is actuated by a current below a predetermined value and connects said first conductor to said secondary contact whenever said current exceeds this value; a ballast resistor connected at one end to said first conductor; and means for connecting the other end of said ballast resistor to said second conductor whenever said first conductor is connected by said relay to said primary contact.

2,403,638
THRASHING MACHINE
Andrew Douglas Clark, Pietermaritzburg, Natal, Union of South Africa
Application November 26, 1943, Serial No. 511,839
In the Union of South Africa May 14, 1943
3 Claims. (Cl. 130—27)



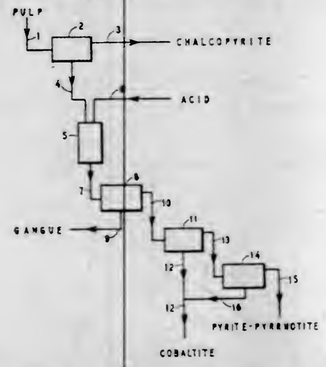
1. In a machine of the character described, the combination of a rotary drum, brackets on the end walls of the drum, bars secured to the brackets in outwardly spaced relationship with the periphery of the drum, a casing surrounding the drum, and pairs of bars secured to the inner wall of the casing, with one bar of each pair at a greater distance from the wall of the casing than the other bar and being located for cooperation with the bars of the rotary drum.

2,403,639
GARMENT HANGER
Samuel I. Cohen, Newton, Mass.
Application November 26, 1943, Serial No. 511,825
4 Claims. (Cl. 223—91)



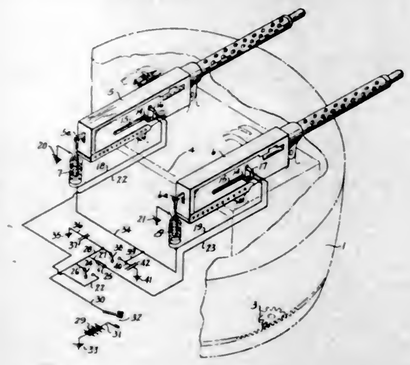
3. A garment hanger comprising complementary clamping members integrally attached to each other at portions intermediate their ends, a supporting hook extending upwardly from said integrally attached portions, guide slots intermediate the edges and extending longitudinally of said clamping members, and means for forcing said clamping members into a clamping association, said latter means being movable along said guide slots.

2,403,640
SEPARATION OF COBALTITE
John R. Cunningham, Larkspur, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application April 15, 1942, Serial No. 439,068
1 Claim. (Cl. 209—167)



In a method of effecting separation of cobaltite from a pulp mixture thereof with chalcopyrite, gangue, and from iron sulfide minerals of similar floatability to the cobaltite; that sequence of steps which consists in first rendering the pulp mixture alkaline with lime; adding a frother and a collector comprising a xanthate, and subjecting said pulp to a first froth flotation to float said chalcopyrite from said gangue, iron sulfide minerals and said cobaltite; then adding acid to adjust the pH of the reject of gangue, iron sulfide minerals and cobaltite to a value not greater than about 7 and a collector comprising a xanthate; then subjecting the pulp thus formed to a second froth flotation to float the cobaltite and iron sulfide minerals from the gangue; then adding to the cobaltite and iron sulfide a depressant for the cobaltite a collector comprising a xanthate, and an activator for the iron sulfide minerals comprising a heavy metal salt; and subjecting the pulp thus formed to a third froth flotation to float said iron sulfide minerals from said cobaltite in the presence of said depressant.

2,403,641
GUNFIRE SYNCHRONIZING CONTROL
Frits Jan Willem den Ouden, Melbourne, Victoria, Australia
Application March 30, 1944, Serial No. 528,759
3 Claims. (Cl. 89—28)

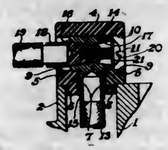


1. In a gun fire control system for synchronizing the gun firing operations of a plurality of machine guns, a plurality of machine guns, a movable part carried by each gun movable to a gun firing position before the gun can be fired and movable to a recoil position incident to the firing of the gun, an electro-magnetic firing control mechanism connected to each gun for initiating the firing operation of that gun, an electrical energizing firing control circuit including the electro-magnetic firing mechanisms of all of the guns and operable when energized to simultaneously energize said electro-magnetic firing mechanisms to fire all of said guns simultaneously, a normally open circuit closing switch carried by each gun, at least one of said switches being connected in said firing control circuit to normally interrupt the circuit, switch actuating means carried by the movable part of each gun disposed in actuating engagement with said normally open circuit closing switch of that gun when the movable part of that gun is in firing position to close said normally open circuit closing switch, and movable to switch disengaging position by said movable part when said movable part is in recoil position to allow said normally open circuit closing switch for that gun to move to its normally open position to interrupt said firing control circuit to prevent the firing of said guns.

2,403,642
TERMINAL BLOCK FOR MOTORS AND THE LIKE
John A. Draxler, Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a corporation of Ohio
Application July 23, 1943, Serial No. 495,940
4 Claims. (Cl. 171—252)

1. In combination with a motor housing, a terminal block mounted on said housing, said block comprising a pair of portions having contacting faces, and having recesses in said faces conjointly forming holes, and having recesses in other faces thereof which extend transversely to said holes, and another portion contacting both

of said first-named portions and having recesses therein which form holes with the recesses in said other faces, said pair of portions having tenon-like projections which extend into the motor



housing to thereby prevent longitudinal or lateral displacement of the block relatively to said housing, and means removably securing the block to said housing.

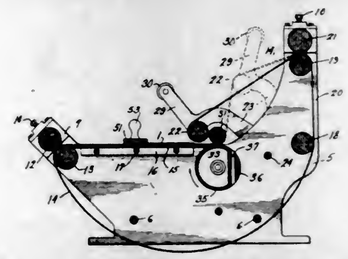
2,403,643
METHOD OF AND APPARATUS FOR INTRODUCING GROUT INTO SUBSOIL
George L. Dresser, Albany, N. Y.
Application February 25, 1944, Serial No. 523,946
16 Claims. (Cl. 61—36)



16. The method of forming a body of artificial stone or the like below the ground level which comprises forming a cavity by means of a jet of fluid, the displaced soil being floated to the ground level by the discharged and upwardly rising fluid, introducing air under pressure to support the otherwise unsupported walls of the cavity, and introducing grout into said cavity while maintaining the air pressure.

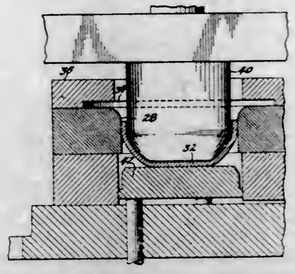
2,403,644
MACHINE FOR FORMING PLASTIC BINDERS
Charles Edward Emmer, Chicago, Ill., assignor to General Binding Corporation, Chicago, Ill., a corporation of Illinois
Application January 2, 1943, Serial No. 471,174
16 Claims. (Cl. 18—19)

11. A plastic binder forming machine comprising a framework, a table supported thereon, a movable flexible endless support, means on the framework for supporting the flexible support with a portion thereof passing over the table, a follower supported on the flexible support above the table for properly positioning a plastic blank on the flexible support, a sectional heated and cooled pressure element rotatably supported on the framework and coacting with the flexible support, a forming arbor free to roll on the flexible support above the pressure element, a control element pivotally mounted on the framework and engaging the flexible support and operable to cradle the forming arbor in a portion of the flexible support and hold the same above the pressure element, means for adjusting the control element to permit forming arbors of different sizes to be used in the machine, a driving mechanism on the framework for rotating the pressure element and for operating the endless flexible support to advance the plastic blank and



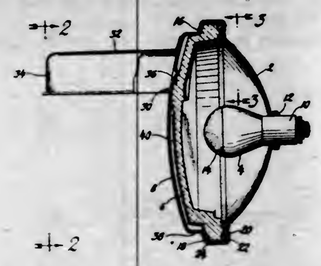
move the same over the heated and cooled sections of the pressure element and coil the blank around the forming mandrel to produce a binder which is releasable from the forming arbor when the control element is swung into release position to free the forming arbor, and means associated with the driving mechanism for setting the pressure element to properly position the heated and cooled sections thereof with respect to the blank being advanced when arbors of different sizes are used.

2,403,645
METHOD OF MAKING BEARINGS
Eugene B. Etchells, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 7, 1943, Serial No. 489,892
6 Claims. (Cl. 29—149.5)



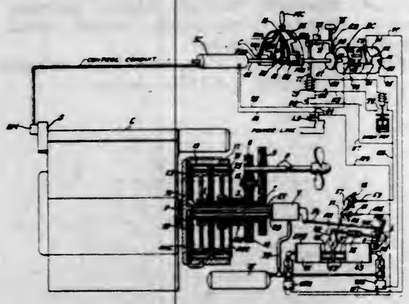
1. The method of making bearings which consists in preparing a steel blank having thermally bonded thereto a layer of oxygen-free metal of the class consisting of copper and silver, forming a bearing shape therefrom by successive forming operations, annealing the shape in a non-oxidizing atmosphere between successive forming operations and after the final forming operation, rough machining the bearing, hardening the bearing back by heating the bearing to approximately 1600° F. in a protecting atmosphere followed by quenching and heating for approximately one hour at a temperature on the order of 400° F., and thereafter finish machining the bearing.

2,403,646
BLACK-OUT HEAD LAMP
Robert N. Falge, George W. Onksen, Jr., and William R. Goris, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 29, 1943, Serial No. 485,042
5 Claims. (Cl. 240—48.4)



1. In a blackout headlamp for vehicles, the combination with a reflector and light bulb, of a lens having a plurality of vertical flutes, a shield in front of said lens, and a relatively narrow horizontal slot in said shield in line with said vertical flutes, said slot being of irregular contour and having portions thereof in line with some of said flutes of different vertical extent than portions thereof which are in line with other flutes.

2,403,647
SHIP DRIVE AND CONTROL SYSTEM
Charles H. Fike and Harry R. Heinzen, Cleveland, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 3, 1943, Serial No. 493,336
10 Claims. (Cl. 192—.01)



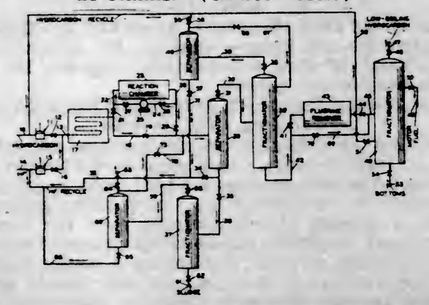
1. A ship drive and control system comprising an engine, speed controlling means therefor, electrical actuating means for said speed varying means, a reversing gear driven by said engine, electro-pneumatic reversing means for said reversing gear, movable electrical control means for controlling said electrical actuating means and said electro-pneumatic reversing means, a manually operable control lever for said control means movable between a neutral control position and a low and high speed reversing control position to cause corresponding operation of said engine and reversing gear, detent means for limiting the movement of said control means to cause low speed operation of said engine or low speed reverse drive of said reversing gear by said engine, electrical detent releasing means to permit further movement of said control means by said lever to cause reverse drive of said reversing gear by said engine at higher values of engine operating speed, a time delay relay for controlling said electrical detent releasing means, and control means for said time delay relay operably connected to said electro-pneumatic reverser to cause release of said detent means only upon reversal of said reversing gear.

2,403,648
HYDRAULIC SHOCK ABSORBER
Nevin S. Focht, Syracuse, N. Y.
Application February 2, 1945, Serial No. 575,881
9 Claims. (Cl. 188—88)



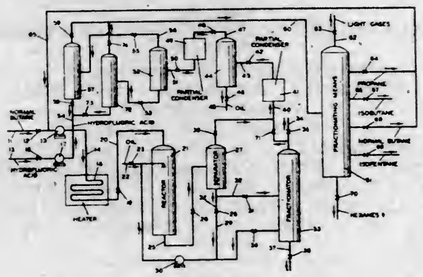
1. In a hydraulic shock absorber, a cylinder, a piston reciprocable therein, a liquid reservoir, a head closing the lower end of said cylinder, said head having therein a port providing communication between the lower end of said cylinder and said reservoir, a metering pin upwardly movable to close said port and having a downwardly tapered portion for downward movement into said port to progressively decrease the effective area of said port, the top of said metering pin being exposed within the lower end of said cylinder for subjection to liquid pressure to urge said pin downwardly, yieldable means tending constantly to urge said pin upwardly to close said port, and a dash pot controlling downward movement of said metering pin.

2,403,649
HYDROCARBON RECONSTRUCTION
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 13, 1942, Serial No. 426,627
18 Claims. (Cl. 260—683.5)



1. A process of isomerizing a normal paraffin having at least four carbon atoms per molecule, which comprises subjecting said normal paraffin to the catalytic action of 0.2 to 4 times by weight of concentrated hydrofluoric acid as the effective catalyst at an elevated temperature in the range of about 50 to 1000° F. for a time sufficient to effect a substantial extent of isomerization of said normal paraffin.

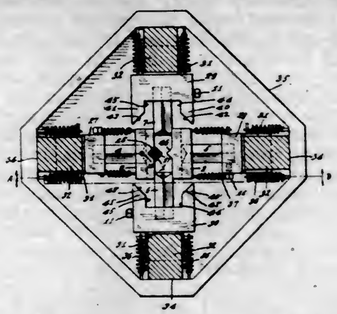
2,403,650
RECONSTRUCTION OF PARAFFINS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 6, 1942, Serial No. 429,810
13 Claims. (Cl. 260—683.5)



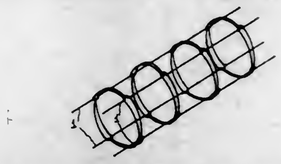
1. A process for isomerizing low-boiling paraffin hydrocarbons of at least four carbon atoms per molecule in a straight chain to form low-boiling isoparaffins, which comprises subjecting in a reaction zone such a paraffin to the action of hydrofluoric acid as the sole effective isomerization catalyst, in an amount from about 0.1 to 4 times by weight of the hydrocarbon material, under an elevated temperature and pressure such that said paraffin and hydrofluoric acid are in gas phase, passing a minor amount of a heavy oil through said reaction zone as a liquid to absorb reaction products of high molecular weight and minimize carbon and tar formation, passing effluents of said reaction zone to a first separator and removing as a liquid said heavy oil and absorbed constituents, removing also from said first separator as a gas a mixture of low-boiling hydrocarbons and hydrofluoric acid, subjecting said gas to partial cooling and condensation to liquify hexane and heavier hydrocarbons and removing the resultant liquid from the process, subjecting the remaining gas to further partial cooling and condensation to liquify the major portion of hydrofluoric acid, and separating same from uncondensed gas, cooling and condensing said uncondensed gas to form a liquid hydrofluoric acid phase and a liquid hydrocarbon phase, passing said liquid hydrocarbon phase to a fractional distillation and recovering therefrom low-boiling isoparaffins.

2,403,651
METHOD OF AND APPARATUS FOR MAKING BITS
Frank L. Fulke, Terre Haute, Ind.
Application December 6, 1943, Serial No. 513,067
7 Claims. (Cl. 76—108)

1. The method of forming four-pointed coal-cutting bits which comprises the steps of confining a steel bar of uniform cross section, applying forming pressure to opposite surfaces of said bar at each of a plurality of spaced points along its longitudinal axis to flow the metal of said bar laterally of its axis while producing opposing, parallel transverse grooves in said bar at each of such points, releasing the bar, and cutting said bar at the base of each pair of such grooves.

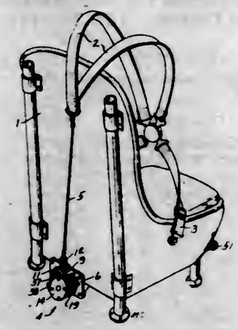


2,403,652
CORDLIKE PRODUCT
George H. Fullerton, Laurel Park, N. C., and Theron V. Moss, Hunting Valley, Ohio
Application March 8, 1943, Serial No. 478,360
6 Claims. (Cl. 66—190)



1. In a brush component, the combination with a suitable base, of a plurality of cords secured thereto and having freely extending ends, the individual cords comprising a longitudinally extending core of fibrous material, and a reticulated envelope therefor, said envelope comprising plural strands stitched in mutually interlocking relation around said core and being non-ravelling at its ends.

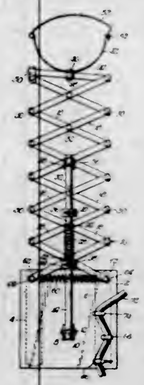
2,403,653
SHOULDER HARNESS TAKE-UP AND INERTIA LOCK
William A. Geohegan, Flushing, and Raymond E. Phipps, Baldwin, N. Y., assignors to the United States of America, as represented by the Secretary of War
Application April 5, 1944, Serial No. 529,696
9 Claims. (Cl. 155—189)



1. In an aircraft safety device, a pilot seat subject to a decelerating action, a resiliently ten-

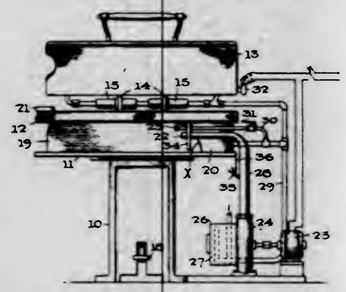
sioned cable takeup drum operatively associated with said pilot seat, having cable means wound thereon, one-way clutch means normally operable to prevent cable unwinding action of said cable drum, a pilot harness for said seat having one end portion fixedly secured with respect to said seat and the other end portion secured to said cable means to take up slack in the harness and secure a pilot when in said pilot seat against forward movement with respect to said seat upon decelerating movement of the seat, inertia operated means subject to said decelerating action normally operatively engaging said one-way clutch means to maintain the clutch means non-operative, said inertia operated means being movable to non-operative position upon said predetermined decelerating action to render said one-way clutch means operative to prevent the unwinding action of said cable drum.

2,403,654
WELDER'S ARMREST
August G. Gerdes, Clinton, Iowa
Application August 16, 1943, Serial No. 498,803
5 Claims. (Cl. 248—118)



1. A welder's arm supporting device comprising a resiliently expansible arm support, means for supporting said arm support from the body of the user and means for inverting said arm support with respect to said supporting means.

2,403,655
APPARATUS FOR SMOOTHING AND DRYING GARMENTS
Harry C. Grimes, Elkins, W. Va.
Application February 3, 1943, Serial No. 474,578
5 Claims. (Cl. 38—15)

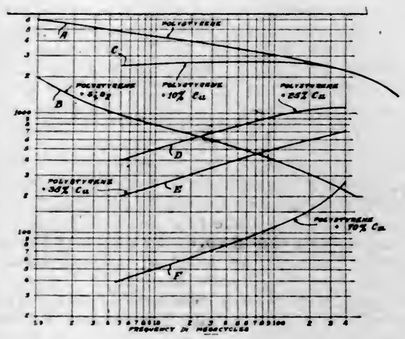


1. In a shirt pressing machine, cooperating relatively movable pressing members upon one of which the shirt front is laid with the back, sides and sleeves of the shirt body suspended from said member; a source from which a blast of air is emitted including an air conduit having a discharge end discharging directly into the suspended portion of the shirt below said last mentioned pressing member and in the general direction from the tail end portion of the shirt toward the neck and shoulder end portion thereof to distend said suspended portion of the shirt by said air blast alone while said front portion of the shirt is being pressed between said pressing members, whereby said suspended portion of the shirt may be stretched smooth and dried while its front is being pressed.

2,403,656
INCENDIARY WITH HIGH PENETRATING POWER
Albert Grobstein, Washington, D. C.
No Drawing. Application July 23, 1942, Serial No. 452,079
6 Claims. (Cl. 44—3)

1. An incendiary, or thermit bomb containing as essential elements the combination of at least one of the group consisting of the nitrides of lithium, cerium, potassium, calcium, and lanthanum, and a heating agent adapted to fuse the same.

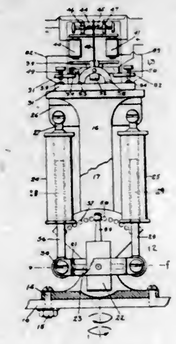
2,403,657
INSULATING AND DIELECTRIC MATERIAL
Robert L. Harvey, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 29, 1943, Serial No. 473,937
1 Claim. (Cl. 260—41)



An electrical insulating and dielectric medium consisting of polystyrene and distributed therethrough a finely divided metal selected from the group consisting of copper and silver in the proportion of from 10 percent to 35 percent by weight of the polystyrene, said medium exhibiting a ratio of reactance to resistance within the frequency range of from 5 megacycles per second to 1,000 megacycles per second which has a value at least as great at the higher of said frequencies as at the lower of said frequencies.

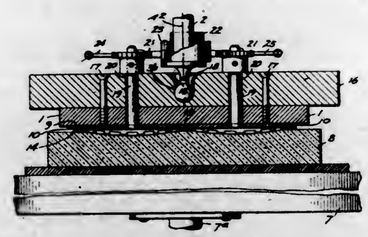
2,403,658
GYROSCOPIC STEERING MECHANISM
Charles M. Hayman, Brooklyn, N. Y.
Application November 21, 1944, Serial No. 564,494
34 Claims. (Cl. 114—144)

1. The method of gyroscopically steering a rudderless vessel in a given plane which comprises developing rotational energy in the spinning rotor of a gyroscope rotating about an axis in said plane and displacing the axis from said plane to



effect a precessional movement capable of steering the vessel about a self-contained vertical axis in the direction towards which the axis is depressed.

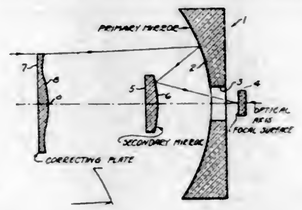
2,403,659
APPARATUS FOR SURFACE GENERATION
Roger Hayward, Pasadena, Calif.
Application May 2, 1945, Serial No. 591,500
19 Claims. (Cl. 51—120)



3. In a grinding and polishing apparatus for surface generation, a head having a guiding surface adapted to face the surface to be generated, a flexible member rotatably mounted on said head to move in a circular path in guiding relation with said guiding surface to follow the contour thereof upon relative rotation between the flexible member and said head, grinding and polishing means secured to said flexible member in spaced relation to the axis of rotation of the resilient member for engagement with the surface to be ground and polished.

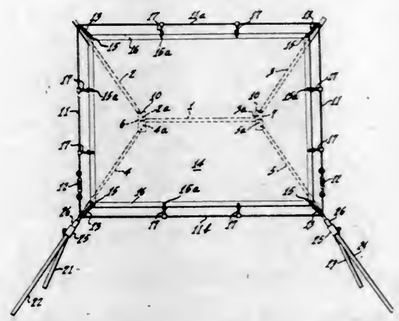
2,403,660
OPTICAL SYSTEM FOR CAMERAS
Roger Hayward, Pasadena, Calif.
Application May 29, 1945, Serial No. 596,459
6 Claims. (Cl. 88—57)

1. An improved Schmidt type camera optical system comprising a concave spherical primary mirror having a light transmitting aperture therein, a convex spherical secondary mirror positioned on a common optical axis with the primary mirror, said mirrors having a common center of curvature, the radius of curvature of the secondary mirror being between substantially two thirds and one half the radius of curvature of the primary mirror, the focal length of the combination of mirrors being substantially equal to the radius of curvature of the primary mirror, a single correcting lens positioned at the center of curvature of said mirrors and introducing correcting aberrations in the light passing therethrough equal and opposite to the total of the



aberrations produced by said mirrors and a spherical focal surface for receiving an image reflected by said mirrors, said focal surface having a radius of curvature substantially equal to the combined focal length of said primary and secondary mirrors.

2,403,661
COLLAPSIBLE MOTION-PICTURE-SCREEN ASSEMBLY
Albert B. Hurley, Huntington, N. Y.
Application January 25, 1945, Serial No. 574,567
6 Claims. (Cl. 160—351)

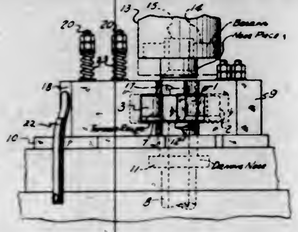


2. A collapsible support for a rectangular screen, said support comprising a plurality of rod-like members, means connecting said rod-like members in the form of a truss wherein the rod-ends define the corners of a rectangle of an area larger than that of said screen, wire-like means connected to said rods adjacent to their said ends and adapted to form the sides of said rectangle, and means disposed in spaced relation along said wire-like means for securing said screen thereto.

2,403,662
ARTICLE ROTATING APPARATUS
Samuel C. Hurley, Jr., Danville, Ill.
Application July 14, 1944, Serial No. 544,959
9 Claims. (Cl. 214—1)

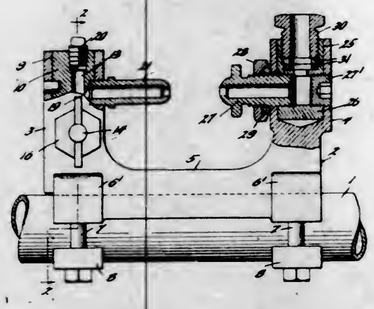
1. In an apparatus for rotating an article, said apparatus comprising a rotating means including a spindle and means for engaging the article with the rotating means, the improvement comprising a guiding and disengaging means comprising at least three idler rollers having at least a portion of their length tapered, the center axes of which are substantially parallel the axis of rotation of the article, said rollers being engageable with and rotatable by the article when the latter is rotatably engaged with the rotating means, the larger end of the tapers being adjacent the rotating means whereby the rotating article will

ride along the roller and out of contact with the rotating means when the engaging means is not actuated thereby preventing the article from en-



gaging with the rotating means without the application of additional force thereupon, and resilient means urging one of said rollers toward the axis of rotation of said article.

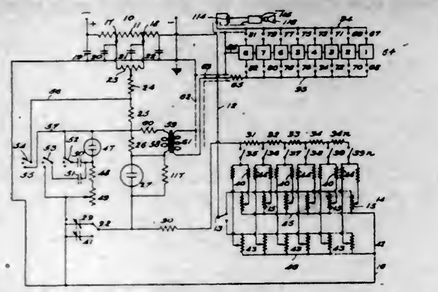
2,403,663
BASE FOR RAYON PUMPS AND THE LIKE
Joseph Paul Laird, Philadelphia, Pa., assignor to The Wicaco Machine Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application May 15, 1945, Serial No. 593,934
5 Claims. (Cl. 103—218)



1. In a cast iron metal base for rayon pumps and the like, two connected uprights, relatively thick stainless inserts in the form of drive fit plugs in each of said uprights, stainless nozzles seated in the stainless inserts, one upright having a passageway formed in the stainless insert registering with one of said nozzles and the other of said uprights having a passageway in said stainless insert registering with the other of said nozzles whereby fluid flowing through said inserts and nozzles contacts with only stainless walls.

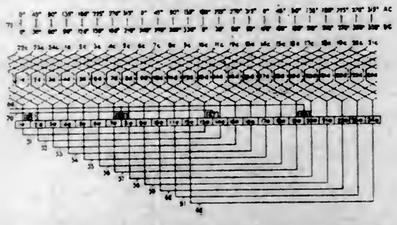
2,403,664
SOLO ELECTRICAL MUSICAL INSTRUMENT
Nicholas Langer, New York, N. Y., assignor to Central Commercial Company, Chicago, Ill., a corporation of Illinois
Application October 24, 1942, Serial No. 463,291
9 Claims. (Cl. 315—228)

1. An electrical musical instrument employing an electro-acoustic transducer, said instrument comprising in combination a space discharge device, a tuned mesh for said space discharge device, and including variable resistances connected in parallel, switching means for connecting selected resistances of said mesh into oscillation-producing relation with said space discharge device, a conductive path connecting said transducer in the output of said device, range-shifting means for said device, and correction means in-



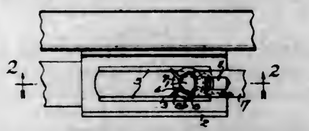
dividual for each range to eliminate the effect of variables incidental to the change of range.

2,403,665
ELECTRIC MOTOR
Jacob Daniel Lewis, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application July 7, 1943, Serial No. 493,792
9 Claims. (Cl. 172—280)



1. An electric motor having a field winding the coils of which are so wound and connected that when certain points on the winding are connected to a source of direct current a stationary field of at least two pairs of poles is provided and when certain points thereon are connected to a source of polyphase alternating current a rotating field of a different number of pairs of stationary poles is provided, and an armature winding wound for the number of said pairs of stationary poles and having equalizing conductors connecting points of equal potential when the field winding is connected to said source of direct current.

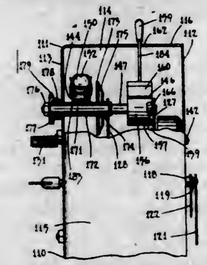
2,403,666
TOOL
David Lubetsky, Detroit, Mich.
Application August 30, 1944, Serial No. 551,916
1 Claim. (Cl. 29—278)



A tool for engaging and inserting resilient bifurcated clips including a piece of resilient material folded upon itself substantially centrally of its length and transversely thereof forming two strips which rest contiguous to one another for the major portion of their length, one of the strips adjacent its outer extremity being stepped away from the outer extremity of the other strip to form an open-ended slot between the ends of the strips, the opposite sides of the slot being

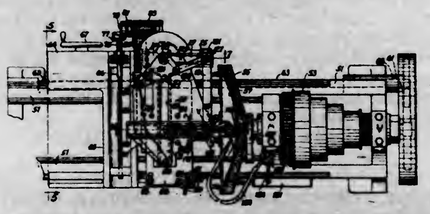
adapted to frictionally engage opposite sides of a bifurcated clip and hold it with its open end projecting beyond and parallel with said strips, the base of the slot forming an abutment through which pressure may be exerted upon the closed end of the clip to force said clip along a path parallel with said strips, and one of the strips being slotted intermediately of its width adjacent its folded end and the other strip having an integral lateral projection extending through and beyond said slot, said projection being braced by one of the walls of said slot, said projection forming a pressure applying finger by means of which the tool may be moved in the desired direction.

2,403,667
TIME CONTROLLED SWITCH MECHANISM
Reuben W. Lovering, Minneapolis, Minn.
Application December 30, 1943, Serial No. 516,163
1 Claim. (Cl. 200—39)



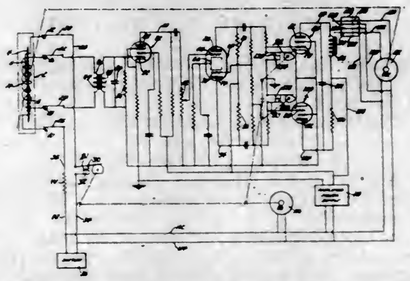
In a time controlled switch mechanism, a mounting, means for pivoting said mounting for movement in opposite directions about a horizontal axis, a switch carried by the mounting and disposed above the axis thereof and extending in a substantially horizontal direction, said switch opening upon movement of the mounting in one direction and closing upon movement of the mounting in the other direction and means for changing the position of said switch from above the axis to a position below the axis to move the switch end for end to reverse the operation of the switch and time controlled means for controlling the movement of the mounting.

2,403,668
APPARATUS FOR FORMING SURFACES OF REVOLUTION
Charles B. Maddock, St. Louis, Mo., assignor to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey
Application July 20, 1939, Serial No. 285,482
22 Claims. (Cl. 82—11)



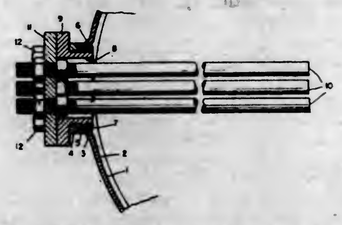
1. A section line generator for conic sections having a plurality of foci comprising a tool having a forming edge which includes a point adapted to traverse the section, said tool having its forming edge lying substantially in the plane of the section, and means for maintaining constant an aspect between said edge and the section line during traverse, such that a line on the tool which is normal to the common tangent between the forming edge and the section line, and which passes through said point, shall always bisect the angle between lines passing from the point to said foci.

2,403,669
INDUCTOR COMPASSS
Edward J. Martin, Pleasant Ridge, and Carl E. Grinstead, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 20, 1944, Serial No. 531,886
7 Claims. (Cl. 177—380)



1. In direction-sensitive means for use in the earth's magnetic field, an elongated core member of high permeability mounted in the earth's field, induction magnetizing means for creating equal and opposite fields mounted on said core, induction pick-up means also mounted on said member, amplifying means connected to the pick-up means, a pair of inversely connected electron tubes alternatively controlled by the amplifier, and synchronized interrupter means in the induction magnetizing supply and in the input to the electron tubes.

2,403,670
CORROSION-RESISTANT FLUID HEATING TANK
William H. Martin, Lakewood, Ohio, assignor, by mesne assignments, to Republic Industries, Inc., New York, N. Y., a corporation of Delaware
Application May 30, 1944, Serial No. 538,000
1 Claim. (Cl. 219—38)



A fluid heating tank provided with a replaceable immersion-type heating element and characterized in that all inner surfaces of the assembly with which the tank contents come into contact are corrosion-resistant, comprising an extension on the outer surface of the wall of said tank about an opening therein, such extension providing a passage with its axis extending at an angle to the plane of the adjacent tank wall, a corrosion-resistant coating on the inner surface of said wall and extending outwardly over the inner surface of said passage, an insert of corrosion-resistant material molded in interlocking relation in said passage in overlying relation with said corrosion-

resistant coating, a thread formed on said molded insert and the axially outer portion of said extension, an annular, exteriorly threaded member of corrosion-resistant material threaded into said passage and provided exteriorly of the tank with a radially extending flange having engagement with the outer end of said extension, an immersion-type heating unit comprising a cover plate of corrosion-resistant material removably secured over the outer end of said passage by attachment to said flange, and a heating element carried by said plate and extending through said passage into said tank.

2,403,671
ISOMERIZATION OF OLEFINIC HYDROCARBONS

Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

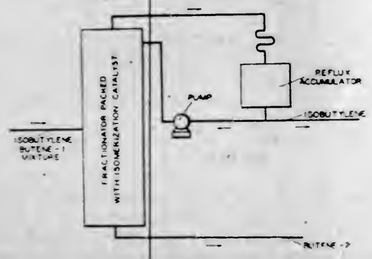
No Drawing. Application May 4, 1942, Serial No. 441,705
9 Claims. (Cl. 260—683.2)

1. A process for effecting catalytic shifting of an olefinic linkage in an unsaturated hydrocarbon containing said olefinic linkage in an aliphatic radical having a chain of at least three carbon atoms without changing the carbon skeleton thereof which comprises introducing said hydrocarbon into a fractional distillation column, at least a portion of said column being packed with a solid granular isomerization catalyst comprising black chromium oxide having an average composition corresponding to the empirical formula CrO_2, said catalyst being so constituted and arranged as to effect said shifting of said olefinic linkage simultaneously with liquid-vapor contacting and consequent separation of the isomers by rectification, and carrying out simultaneous fractional distillation and said shifting of said olefinic linkage in said column while maintaining such conditions of temperature and pressure that said shifting of said olefinic linkage and said separation take place.

2,403,672
SEPARATION OF OLEFINS

Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 13, 1943, Serial No. 510,185
3 Claims. (Cl. 260—683.2)

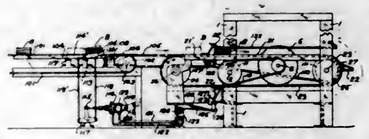


1. The method of separating isobutylene from butene-1 which comprises introducing a feed containing said isobutylene and butene-1 into a fractionation-isomerization column packed with a solid catalyst which is capable of effecting the isomerization of butene-1 to butenes-2 under conditions maintained in the column, passing the feed over the solid catalyst under conditions of temperature and pressure such that liquid and vapor phases are maintained and such that the catalytic conversion of butene-1 to butenes-2 is substantially the sole reaction without substantially affecting the isobutylene, removing isobutylene as an overhead product and removing butenes-2 as a kettle product by fractional distillation in the single fractionation-isomerization column.

2,403,673
LUMBER FEEDING CONVEYER FOR SAW TRIMMERS

Elmer C. Mead, Scotia, Calif., assignor to The Pacific Lumber Company, San Francisco, Calif., a corporation of Maine

Application March 17, 1944, Serial No. 526,922
4 Claims. (Cl. 198—34)



1. In a lumber feeder of the character described, a multiple strand conveyer across the strands of which the lumber extends, a purality of supporting arms beneath the conveyer, and means pivotally mounting said arms for slanted projection upward between the conveyer strands so as to force the lumber to ride up on said arms and stop while the cenveyer continues to travel beneath the lumber, and timed means for lowering said arms to permit said bundle to continue its travel, said arms provided with a definite stop carried by the arms at their outer ends to limit the movement of the lumber up on said arms, and which stop is lowered with the arms below the level of the conveyer when the arms are lowered.

2,403,674
MOLDED FRICTION ELEMENT

David Henry Miller, Phillip H. Knowles, and Wilfred A. Hughes, Wilton, Conn., assignors to The Gilbert and Bennett Manufacturing Company, Georgetown, Conn., a corporation of Connecticut

Application July 16, 1942, Serial No. 451,236
4 Claims. (Cl. 188—251)



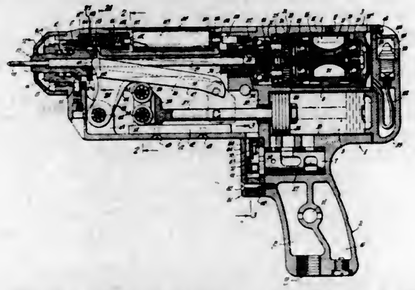
1. A molded friction element having a wire cloth reinforcing insert molded therein at a point spaced from one friction face, said insert comprising woven wire cloth coated with a baked nonmetallic stiffening composition capable of bending without substantial cracking and of withstanding temperatures in excess of 400° F. without decomposition.

2,403,675
TOOL FOR INSTALLING TUBULAR RIVETS

Walter George Mitchell, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware

Application June 11, 1943, Serial No. 490,546
22 Claims. (Cl. 218—19)

1. A tool for installing internally threaded tubular rivets, said tool comprising a support, an anvil relatively slidably mounted in the support for engaging the rivet, a rotary spindle having a swiveled connection with the support and fixed against endwise movement with respect thereto, said spindle extending through the anvil and having a threaded outer end for engagement with the threaded portion of the rivet, and means in

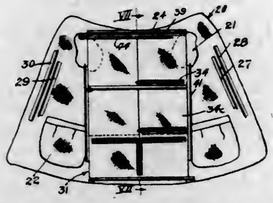


the support for rotating the spindle and other means for projecting the anvil outwardly relatively to the support for respectively engaging and disengaging the spindle with respect to the rivet and collapsing the rivet engaged by the spindle.

2,403,676
HEAT AND COLD APPLICATOR

Michael Modlinski, Chicago, Ill.

Application August 3, 1944, Serial No. 547,906
1 Claim. (Cl. 2—94)



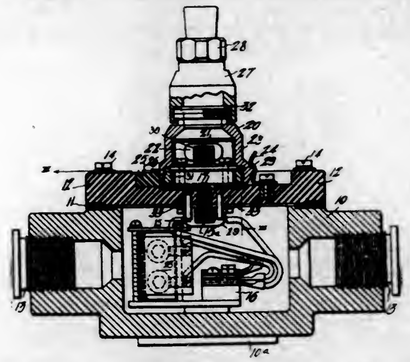
An applicator jacket comprising a coat-like garment arranged to be worn by a patient, a plurality of fasteners on the outside of the garment, a flexible panel, fastening means on said panel for coacting with the fasteners on the garment to selectively attach the panel across an exterior portion of the garment, said panel having a plurality of pockets for thermal treatment means, said pockets opening on the outer face of the panel, fasteners accessible from the outer face of the panel for closing the pockets, said panel, upon release from the garment of certain of the fastening means, being foldable at one end thereof to provide a plurality of plies each containing one or more pockets and thereby to create a localized stack of pockets on the garment, and means for securing the panel in the desired multi-ply folded form.

2,403,677
QUICK DETACHABLE AUDIO-FREQUENCY CONNECTOR

William Joseph Morlock and Richard Clabeau Willman, Indianapolis, Ind., assignors to Radio Corporation of America, a corporation of Delaware

Application October 25, 1943, Serial No. 507,630
4 Claims. (Cl. 179—1)

1. Apparatus for audio frequency communication with the interior of a ship having a metallic hull including telephone instruments within said hull, an insulating member forming a watertight portion of said hull, a transformer half contained under said member with its core extending into said member, the transformer half being electrically connected with the telephone instruments

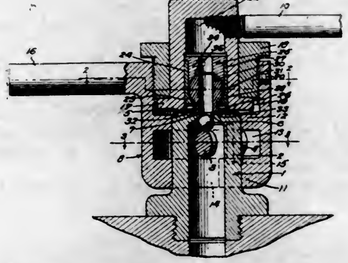


within said hull and being adapted to cooperate with an adjacent transformer half located in a removable plug outside of said cover.

2,403,678
COUPLING NOZZLE FOR AIR GREASE GUNS

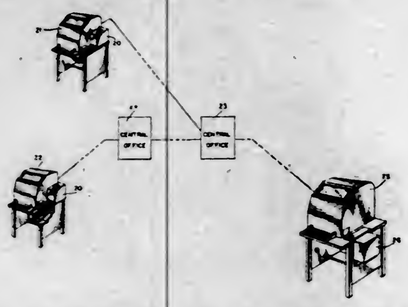
Ernest B. Norman, New Orleans, La.

Application December 16, 1943, Serial No. 514,564
2 Claims. (Cl. 285—176)



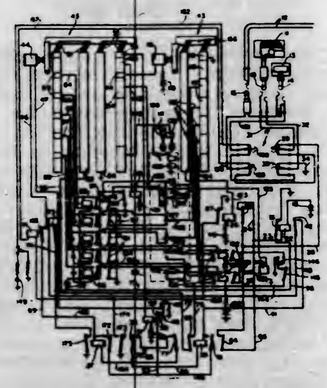
2. Coupling nozzle for grease guns comprising a coupling member and a nozzle member coaxially related and relatively rotatable, said nozzle member being mounted in the upper end of said coupling member, said nozzle member having an axial cylindrical chamber opening in its lower end, means adapted to connect the upper end of said chamber to a grease gun, a grease seal slidably fitting in the lower part of said chamber comprising a two-part hollow piston subject to grease pressure from the upper part of said chamber, each part having a seat for a ball and there being lost motion between said parts, a nozzle with limited uniform movement comprising a ball portion within said piston engaged on opposite sides by the ball seats on said piston parts, and a mouth portion extending beyond the lower end of said nozzle member having a planiform end adapted to engage and move into flat contact with the end of a filler neck, a bore through said nozzle and piston communicating with the part of said chamber above said piston, said coupling member having an axial filler neck receiving bore opening in juxtaposition to the lower end of said nozzle member, having a filler neck pin receiving channel surrounding said bore and open thereto with its upper and lower walls in planes perpendicular to the axis of said bore, and having longitudinal pin passages extending from its lower end to said channel.

2,403,679
MECHANICAL CIPHERING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 19, 1942, Serial No. 462,522
28 Claims. (Cl. 178—22)



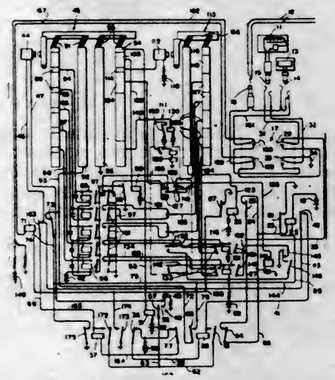
2. In a signaling device, a signal tape sensing device, a first element movable under control of said sensing device to one or the other of two positions according to the spacing or marking nature of a signal, a single signal receiving magnet, a member movable under control of said magnet to one or the other of two positions according to the marking or spacing nature of a second simultaneously occurring signal, a second element, and means to move the second element in either of two ways, one corresponding to spacing and the other to marking according to the relative position of the first element and the member.

2,403,680
CIPHERING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 19, 1942, Serial No. 462,523
18 Claims. (Cl. 178—22)



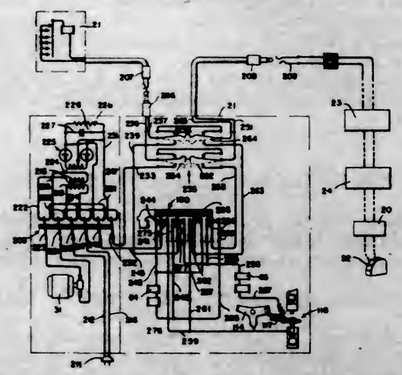
2. In a ciphering system, two circuits, on one of which plain signals are always transmitted and in the other of which enciphered signals are always transmitted, a circuit adapted to encipher plain signals and to decipher enciphered signals, a first relay in one of said circuits, a second relay in the other circuit, a first contact in the first circuit, a second contact in the second circuit, means to operate both contacts according to the output of the ciphering device, means to control the input of the ciphering device according to the operation of either relay, and means to render one of the relays ineffective and one of the contacts ineffective according to which relay receives an initial signal.

2,403,681
CIPHERING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application October 19, 1942, Serial No. 462,523. Divided and this application September 18, 1944, Serial No. 554,636
3 Claims. (Cl. 178—71)



1. In a repeater system, a double wound relay, two line sections, one of the windings of said relay associated with one line section and the other winding associated with the other line section, signal repeating means controlled by said relay, switching means to condition the circuit for repeating in one direction or the other, and means operative upon initiation of a signal in one line section to disconnect the winding associated with the other line section.

2,403,682
MECHANICAL CIPHERING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application October 19, 1942, Serial No. 462,522. Divided and this application September 18, 1944, Serial No. 554,637
2 Claims. (Cl. 178—71)



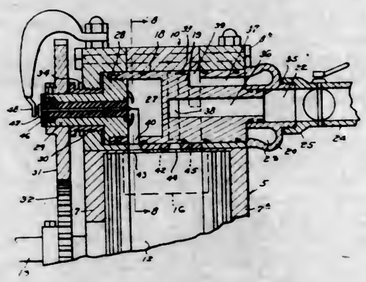
1. In a regenerative repeater, a start magnet, a selector magnet, means to start the repeater

at the beginning of a signal in response to the operation of the start magnet, a contact mechanism, means to control the contact mechanism by the selecting magnet only, two signal circuits connected to the repeater, and means responsive to a signal initiated in either circuit to start the repeater units operating, and means responsive to the initiating impulse to connect the selector magnet in the circuit initiating the impulse and the start magnet in the other circuit.

2,403,683
COMPOUNDS OF THE CYCLOPENTANO-POLYHYDROPHENANTHRENE SERIES AND PROCESS OF MAKING SAME
Tadeus Reichstein, Basel, Switzerland
No Drawing. Application February 4, 1943, Serial No. 474,726. In Switzerland April 25, 1942
12 Claims. (Cl. 260—397.1)

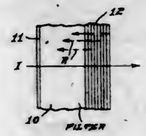
1. An etiocholane containing a ketonic oxygen at the carbon atom 11 and a halogen atom at the carbon atom 12.

2,403,684
ROTARY COMBUSTION ENGINE
Everett W. Rich, San Diego, Calif.
Application August 17, 1944, Serial No. 549,948
1 Claim. (Cl. 123—16)



In a rotary combustion engine, a circular housing, an eccentric piston rotatable in the housing, a head mounted on the housing, a single rotary valve journaled in the head and having a combustion chamber therein, said head, housing and valve having cooperating ports and passages for successively controlling the admission of fuel charges to the housing for compression, passage of the compressed charges from the housing to the combustion chamber for firing, passage of the exploded gases from the combustion chamber to the housing, and discharge of the spent gases from the housing to the atmosphere, means for firing the compressed charges within the combustion chamber, and a driving connection between the piston and said valve, said valve having two longitudinal passages in an end portion thereof, each communicating at its inner end with a different port of the valve, a fitting secured to the head and including a central intake passage communicating with one passage of the valve and a surrounding exhaust chamber communicating with the other passage of the valve, a charge supplying pipe coupled to the fitting in communication with the first-named passage of the latter, and an exhaust pipe leading from the exhaust chamber of said fitting.

2,403,685
LIGHT FILTER
Lawrence T. Sachtleben, Indianapolis, Ind., and William L. Douden, Philadelphia, Pa., assignors to Radio Corporation of America
Application March 31, 1941, Serial No. 386,144
2 Claims. (Cl. 88—105)



1. A light filter including a selectively light-transmitting filter body and a selectively light-reflecting coating on the surface thereof composed of alternate layers of high and low index transparent material so selected and of such thickness in relation to the light transmitted by the filter body as to be predominantly reflective of a color subjectively complementary to that transmitted by said body and predominantly transmissive of at least a portion of the light transmitted by said body.

2,403,686
REACTION PRODUCT OF UNSATURATED MONO-GLYCOL ETHERS AND UNSATURATED NITRILES
Edward John Schwoegler, Wyandotte, Mich., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
No Drawing. Application November 22, 1944, Serial No. 564,716
14 Claims. (Cl. 260—345)

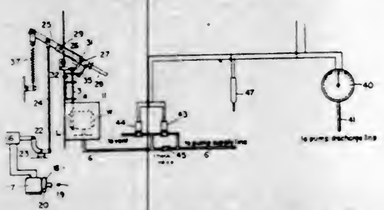
1. As a new composition of matter, the reaction product of an ether of a saturated glycol and an unsaturated alcohol, and an α,β unsaturated open chain nitrile.

2,403,687
SEAL FOR BEARINGS
Julius E. Shafer, Chicago, Ill.
Application February 5, 1940, Serial No. 317,278
9 Claims. (Cl. 286—5)



1. The combination with a pair of rings disposed one within the other, of a retainer carried by one of the rings and projecting toward the other ring into spaced relation from said other ring, a flinger having a base secured onto said other ring extending into spaced relation from the end of the retainer, said flinger having a flange extending from said base thereof into spaced relation from the ring carrying said retainer, and a yieldable sealing ring affixed to the base and flange of the flinger in the space between the flinger and retainer, said yieldable sealing ring being held by said flinger in closely spaced relation from the retainer and the ring carrying said retainer and being exposed at the outer peripheral edge of the flinger flange.

2,403,688
PUMP CONTROL
Joseph B. Smith, Elida, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
Application April 2, 1943, Serial No. 481,543
14 Claims. (Cl. 103—25)



1. In pump control means, a lever, a plunger normally supporting said lever at an incline above a horizontal position, a diaphragm actuating said plunger and being controlled by pressure communicated from the pump suction line, guideways on said lever, a weight adapted to run on said guideways, a trip rod operated by said lever to shut off the power driving the pump, a one-way check valve between said diaphragm and the pump suction line, a valve normally open by-passing said check valve, a valve normally closed positioned between said check valve and said diaphragm to a point of discharge, means responsive to pressure change in the pump discharge line for reversing said last two valves, and a thermally-controlled element also having connections to reverse the same.

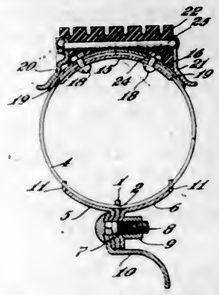
2,403,689
FLUID LOCKOUT DEVICE
Robert B. Sprague, Long Beach, Calif., assignor to Hoof Products Company, Chicago, Ill., a corporation of Illinois
Application August 28, 1942, Serial No. 456,563
19 Claims. (Cl. 137—153)



1. In a hydraulic lockout device of the class described, a chamber having an inlet and outlet valve means within the said chamber for controlling communication between the inlet and outlet and comprising a pair of valve members, means normally urging said valve members to relatively closed position, at least one of said valve members having a portion exposed to the action of back pressure at said outlet and urged thereby toward open position and an oppositely acting portion of relatively restricted area subjected to inlet pressure for urging the valve member toward closed position said valve being operative to shift towards open position when the back pressure reaches a value lower than the inlet pressure by a predetermined differential.

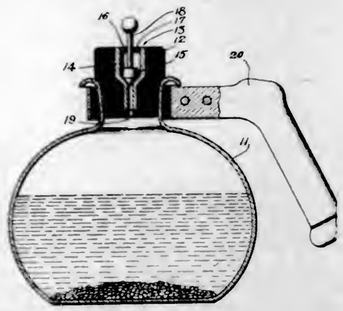
2,403,690
VEHICLE WHEEL
Arthur M. Stanley, Lynn, Mass., assignor to Stanley Engineering, Inc., Boston, Mass., a corporation of Massachusetts
Application September 26, 1944, Serial No. 555,773
5 Claims. (Cl. 152—92)

1. A vehicle wheel comprising an annular plate having circumferentially spaced openings, a helical spring threaded through said openings with its ends secured together to provide a toroid extending about said plate, rim members secured to the opposite faces of said plate and embracing the inner peripheral portion of said spring, attaching means for securing said plate to a vehicle



wheel, inner and outer circumferential rings disposed on opposite sides of the outer peripheral portion of said spring and rigidly secured together so as to clamp the outer peripheral portion of said spring therebetween, and a tread member mounted on the outer ring.

2,403,691
APPARATUS FOR MAKING COFFEE
Marshall N. States, Evanston, Ill., assignor to Robert C. Brown, Jr., Highland Park, Ill., as trustee
Original application December 16, 1939, Serial No. 309,585. Divided and this application October 1, 1943, Serial No. 504,553
7 Claims. (Cl. 99—279)



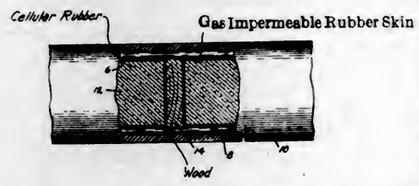
1. An apparatus for preparing coffee beverage from a content of coffee and water, comprising a container of globular-like form of a material to withstand the local application of intense heat for raising the temperature of the liquid therein provided with an elongated upwardly extending neck having a passage extending upwardly therethrough and constituting the sole passage between the exterior and interior of said container, a stopper for said passage, said stopper having a passageway therethrough, and a valve for said passageway biased to a closed position for normally preventing the entrance of air to said container but permitting air and steam to escape from said container when said water is boiled within said container whereby the valve will close automatically at the end of a boiling period to produce a partial vacuum in said container for steeping said coffee when said container cools sufficiently to condense the steam therein.

2,403,692
PIEZOELECTRIC DEVICE
George C. Tibbetts, Camden, Maine
Application December 29, 1944, Serial No. 570,361
10 Claims. (Cl. 171—327)



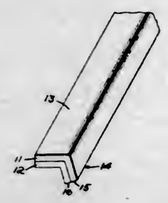
1. A piezo-electric device comprising a slab which expands in one edgewise direction when subjected to electrostatic forces, a diaphragm extending along one side of the device from edge to edge in said direction, and means interconnecting the slab and diaphragm at said edges, the diaphragm being arched in said direction so that it tends to straighten when the slab expands as aforesaid.

2,403,693
ELECTRIC CABLE
James Urmston, Montclair, N. J., assignor to Callender's Cable & Construction Co., Ltd., London, England
Application December 12, 1941, Serial No. 422,650
7 Claims. (Cl. 174—110)



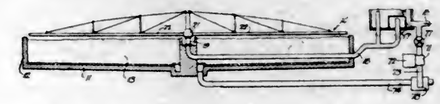
1. An electric cable comprising a central flexible core of cellular material composed of gas-filled, non-intercommunicating cells, a relatively gas-impermeable skin or sheath around the longitudinal surface of the core, an annular flexible conductor about the skin or sheath, and an insulating and water-excluding covering surrounding the conductor, the whole assembly providing a flexible cable which will float on water.

2,403,694
LAMINATED WELTING
William C. Vizard, Brockton, Mass., assignor to Barbour Welting Company, Brockton, Mass., a copartnership composed of Perley E. Barbour, Walter G. Barbour, and Richard H. Barbour
Application February 7, 1944, Serial No. 521,464
5 Claims. (Cl. 36—78)



1. Preformed welting comprising upper and lower layers cemented together, the inner margins of both layers being bent downwardly relative to the welt extension to form a permanently depending inseam flange, the crease or the fold constituting a guide for the inseam stitch.

2,403,695
APPARATUS FOR TREATING SEWAGE
James D. Walker, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a corporation of Illinois
Application December 4, 1941, Serial No. 421,531
9 Claims. (Cl. 210—7)



1. A trickling filter including a filter bed, a rotary distributor therefor having support means at a central position, a distributor arm extending outwardly therefrom, rotatably mounted with respect to the support means, provided with a plurality of normally open orifices differentially spaced to provide greater volume of discharge per linear foot of the arm near the outer, faster moving end of the arm than near the inner end of the arm, and a plurality of auxiliary orifices disposed to supplement the normally open orifices to provide approximately uniform discharge throughout the length of the distributor arm, said orifices being so disposed that the discharge therethrough will tend to drive the arm, means normally rendering said auxiliary orifices inoperable but adjustable to render them operable, motor and speed-reducing gears for driving the distributor arm but which are self-locking to prevent driving the motor by the distributor arm when the motor is not energized, a friction drive device through which power is exerted by the motor and gear unit to drive the distributor arm, said friction drive device being adapted to let the motor speed up quickly while the arm is starting slowly and to let the arm move very slowly, when the motor is turned off, under the reaction of liquor pumped through the arm, and means for recirculating sewage from the outlet of the filter bed to the distributor arm to provide a large volume flow of liquor through the arm independently of the supply of raw sewage.

2,403,696
ELECTRICAL SOUND REPRODUCING APPARATUS
Harry C. Warner, San Francisco, Calif.
Application August 14, 1944, Serial No. 549,379
8 Claims. (Cl. 179—100.41)

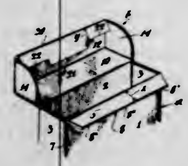


1. In a phonograph pick-up of the character described, the combination of a supporting housing adapted to be carried by the tone arm of a phonograph, a stylus pivotally mounted upon and extending from said housing adapted to engage a sound record, a deformable liquid containing receptacle having spaced electrodes mounted therein and adapted to be connected in the grid circuit of a vacuum tube with the plate to ground potential of said vacuum tube impressed therebetween, a current conducting liquid within said receptacle forming a variable conductance path between said electrodes, and means operated by movements of said stylus adapted to deform said receptacle and thereby change the conductance of said liquid in accordance with the recording upon a sound record.

2,403,697
PLASTICIZING OF GLASSINE PAPERS
Herbert B. Wenberg, De Pere, Wis.
No Drawing. Application June 4, 1943, Serial No. 489,716
14 Claims. (Cl. 8—116.2)

5. A method of plasticizing glassine paper which includes the step of contacting said glassine paper with a plasticizer comprising an addition compound of urea with a water-soluble nitrate, the molal ratio of the urea to the water-soluble nitrate in said addition compound being not substantially less than 3 to 1.

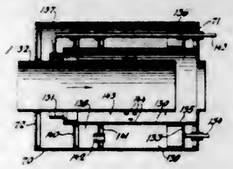
2,403,698
HINGED COVER CONTAINER
Marshall I. Williamson, New Haven, and Herman A. Carruth, Northford, Conn., assignors to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application June 13, 1944, Serial No. 540,088
10 Claims. (Cl. 229—44)



1. An improved hinged cover container comprising, a box part having enclosing side panels and an open end, a cover part for said open end having an end wall panel hingedly connected to one of the box side panels and connected cover side panels joined to said end wall panel adapted to telescope over other adjacent box side panels, an abutment flap hinged to one of said other box side panels and extending along the outside face and adjacent to the open end thereof, an abutment flap hinged to the adjacent cover side panel and extending along the inside face thereof, said abutment flaps being substantially wholly contained within the cover part when the cover part is in closed position and being operative to automatically releasably retain the cover part in closed position and releasably resist opening movement thereof, said abutment flaps having cooperating abutment edges arranged to move into abutment and maintain compressive stress on at least one of said flaps during a portion of the swinging movement of the cover part from closed to open position, one of said abutment flaps having a lug projecting from an edge thereof adapted to overlap the other abutment flap and effective to cause a bowing distortion of said other abutment flap whereby the cooperating abutment edges of said abutment flaps are retained in firm cooperating abutting engagement during a portion of the swinging movement of the cover part from closed to open position.

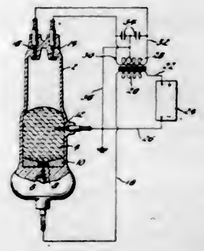
2,403,699
RESONATOR SILENCER
Ernest E. Wilson, near Milford, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application December 12, 1936, Serial No. 115,470. Divided and this application August 30, 1940, Serial No. 354,877
2 Claims. (Cl. 181—48)

1. In a silencer, a duct which includes a smaller tube and a larger tube which encircles and is radially spaced from a portion of the smaller tube, a shell which encircles and is radially spaced from a portion of the duct, and walls which extend from the tubes to the shell and with the duct and the shell define a



compartment which encircles the duct and communicates with it as a side branch through the aperture between the telescoped portions of the tubes, the wall which extends from the larger tube to the shell being adjustable lengthwise of the duct.

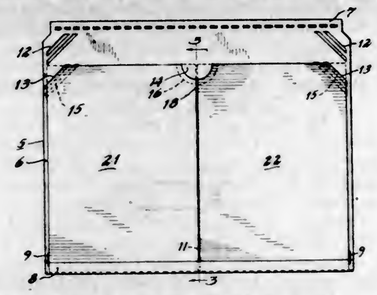
2,403,700
MERCURY ARC DEVICE
Leonard M. Wittlinger, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 27, 1943, Serial No. 503,879
10 Claims. (Cl. 315—56)



1. In a light source for ultraviolet rays, a transparent casing, a pool of mercury partially filling said casing, a plurality of electrodes of dissimilar materials mounted in the casing and contacting the mercury, a low voltage source of power connected to said electrodes to form therewith an interrupter, a transformer in the low voltage circuit, a high voltage circuit connected to the transformer, further electrode means mounted in the casing spaced from the mercury and connected to the high voltage circuit to cause an arc to form between the last-named electrode means and the mercury and means in the high voltage circuit to maintain a given arc polarity of the mercury and last-named electrode means.

2,403,701
HOLDER FOR CARDS AND PHOTOGRAPHS
Clarence F. Zuber, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application July 7, 1944, Serial No. 543,833
3 Claims. (Cl. 129—16.7)

1. A holder for inserts such as cards, photographs and the like comprising a body, insert engaging means provided on said body, one of said insert engaging means comprising an inwardly disposed tongue formed on said body for receiving the adjacent corners of a pair of inserts mounted upon one side of the holder, a lip formed on said body and extending around the marginal edge of said tongue to receive the adjacent corners of a pair of inserts mounted upon the opposite side of the holder, and a staple engaging the



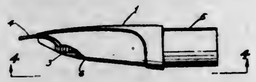
free end of said tongue and extending across said lip for engagement with said body.

2,403,702
MECHANICAL FLASH LAMP
Robert Alexis Adams, Brawley, Calif.
Application April 4, 1944, Serial No. 529,464
3 Claims. (Cl. 240—1)



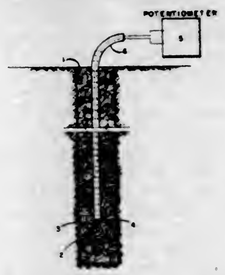
2. A flashlight comprising a reflector, a handle for the reflector, a plurality of roughened wheels mounted on the reflector, said reflector having openings through which the wheels project, spark producing elements mounted in contact with the wheels, a flexible shaft circumscribing the reflector and having a driving connection with the wheels, and means in the handle for rotating the flexible shaft.

2,403,703
HOODED FEED BAR FOR PENS
Robert Back, Los Angeles, Calif., assignor to Bert M. Morris Co., Los Angeles, Calif., a firm
Application August 27, 1945, Serial No. 612,819
2 Claims. (Cl. 120—51)



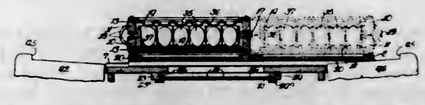
1. A pen assembly comprising a hood having a socket, a feed bar fitting in said socket, a longitudinally extending web at the bottom of said feed bar, said hood having a bottom having a slot slightly wider than said web, said web extending through said slot, said slot opening into the interior of said hood on its inside and opening at the exterior of said hood at its outside and providing capillary spaces at opposite sides of said web.

2,403,704
THERMAL PROSPECTING
Ludwig W. Blau, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 27, 1942, Serial No. 436,400
4 Claims. (Cl. 73—432)



1. A method for prospecting for oil which comprises drilling boreholes at spaced points over an area to be surveyed, suspending a thermometer in each borehole at a selected depth, the depths being substantially the same for all boreholes and being at least sufficiently great to exclude the effect of surface conditions, pouring earth into the hole above the thermometer so as to reproduce as nearly as possible the conditions obtaining before the hole was drilled, allowing the thermometer to remain in place until successive readings thereof, at suitable time intervals, are substantially the same, thereby indicating that thermal equilibrium has been reached, and recording the reading of the thermometer after equilibrium has been attained for the purpose of correlating it with similar readings made in other holes to determine the contours of isotherms.

2,403,705
EGG CANDLING APPARATUS
Ely Bramson, Chicago, Ill., assignor to The Bramson Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application December 16, 1942, Serial No. 469,207
24 Claims. (Cl. 88—14.6)



1. An egg candling apparatus comprising, in combination, a carriage having means whereby a lot of eggs in definite spaced relation can be supported for candling alternatively at different positions on the carriage longitudinally of its direction of travel, said means including means pivotally attached to the carriage and operable for transferring said lot of eggs from one to the other of said positions and inverting the lot as it is so transferred, means supporting the carriage for movement between two extreme positions, means preventing movement of the carriage beyond said extreme positions, the distance through which the carriage is shiftable in opposite directions being sufficient to permit bringing said lot of eggs in either of the positions in which it is alternatively supported on the carriage to a certain position in the path in which the lot is movable by the carriage, and means in fixed relation to said path for illuminating the eggs when the lot is in said certain position.

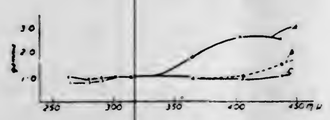
2,403,706
METALLIC COATING
Eugene E. Bryant, Bedford, Ohio, assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War
No Drawing. Application April 6, 1944, Serial No. 529,817
4 Claims. (Cl. 117—22)

4. The method of producing a thin adherent metallic coating on the surface of a metallic base which comprises providing a mixture of a flux, a major proportion of at least one oxide of a metal of the group consisting of nickel, cobalt and chromium, and a minor proportion of at least one oxide of a metal of the group consisting of zinc, tin, and lead, the particles of said mixture being of such fineness that substantially all will pass through a sieve having 200 meshes to the square inch, adding water to said mixture and intimately mixing the particles in said mixture, applying said mixture in a thin even layer to the metallic surface to be coated, and firing the same in a closed system containing a reducing gas, whereby a thin, even film firmly adhering to said metallic surface is formed.

2,403,707
PRODUCTION OF ALGINIC ACID COMPOUNDS
George Eric Cunningham, Norman Henry Chamberlain, and John Bamber Speakman, Leeds, England, assignors to Cefoil Limited, Maidenhead, England, a British company
No Drawing. Application October 5, 1943, Serial No. 505,033. In Great Britain July 1, 1942
6 Claims. (Cl. 260—209.6)

1. In the production of lower fatty acid esters of alginic acid, the steps of first swelling the alginic acid in an aqueous medium for at least ten minutes, then removing water from the swollen structure, while still maintaining the swollen state, by introducing an hydrophyllic organic liquid which is sufficiently polar to prevent re-association of the hydroxyl groups of the alginic acid when the water is removed, and thereafter carrying out the reactions necessary for the production of the desired lower fatty acid esters.

2,403,708
SENSITIVE PHOTOGRAPHIC MATERIALS
Edward Philip Davey and Edward William Herbert Selwyn, Wealdstone, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 8, 1944, Serial No. 548,558
In Great Britain August 10, 1943
8 Claims. (Cl. 95—7)



1. A light-sensitive silver halide emulsion layer diffusely containing a nitraniline selected from the group consisting of p-nitraniline and m-nitraniline which does not sensitise the emulsion and for all practical purposes has no deleterious action on the emulsion but having a light absorption maximum lying between 350 and 400 mμ and a lesser absorption from 350 mμ to 250 mμ.

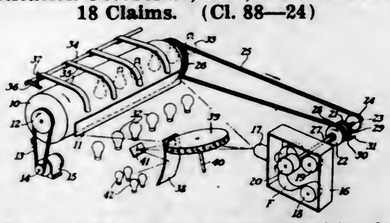
2,403,709
PRODUCTION OF ORGANIC PEROXIDES
Frank H. Dickey, Oakland, Calif., and Edward R. Bell, Norwalk, Ohio, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application March 13, 1944, Serial No. 526,333
14 Claims. (Cl. 260—610)

1. A process for the production of isopropyl tertiary butyl peroxide which comprises contacting the potassium salt of tertiary butyl hydroperoxide with isopropyl bromide in the presence of isopropyl alcohol, effecting said contacting at substantially ordinary temperatures and for a period of time sufficient to effect the formation of isopropyl tertiary butyl peroxide, separating the potassium bromide formed as a by-product, and distilling the isopropyl tertiary butyl peroxide from the remaining liquid phase.

2,403,710
2-BROMPYRAZINE AND METHOD OF PREPARING SAME
James K. Dixon, Riverside, and John M. Sayward, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 21, 1944, Serial No. 546,052
6 Claims. (Cl. 260—239.6)

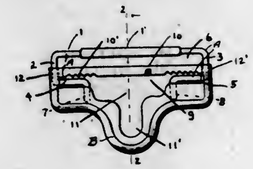
1. 2-brompyrazine.

2,403,711
CONTROL FOR PHOTOGRAPHIC COPYING APPARATUS
John F. Egan, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 27, 1943, Serial No. 507,793
18 Claims. (Cl. 88—24)



1. In a photographic copying machine having a document field and a photographic field, the combination with a feeding means for moving a document through said document field, an illuminating means including an incandescent light source and for illuminating said document field, an advancing means including a clutch assembly and for moving a film through said photographic field in synchronism with movement of a document through said document field, and a control member spaced from said document field and responsive to the presence of a document in said feeding means, of a timing control circuit including a document operated switch responsive to said control member, an electrical condenser, and a relay coil in parallel therewith, a film drive control circuit including a solenoid for operating said clutch assembly and a switch operated by said relay coil, and an illumination control means including a light source of said illuminating means, a pair of resistances in series, a second document operated switch responsive to said control members, and a shunt circuit including a switch operated by said relay coil and for short circuiting said second document operated switch and one of said resistances upon energization of said relay coil.

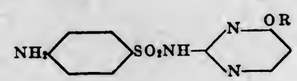
2,403,712
SLIDE LOOP
George Henry Elwell, New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a corporation
Application October 26, 1944, Serial No. 560,442
1 Claim. (Cl. 24—73)



A slide loop comprising a sheet-stock cross-bar of a button receiving and retaining device, the cross-bar having a lower central straight edge and a toothed edge upon either side thereof and curved lugs at the extremities of said cross-bar, said curved lugs slidingly supporting therein, in the plane of the sheet-stock cross-bar, wire side bars of an open rectangular loop, said side bars integrally depending at right angles from opposite ends of an upper wire cross-bar, and the lower end of each side bar extending inwardly toward one another in relatively spaced alignment and terminating in depending extremities in planes parallel to said side bars, the sheet-stock toothed edges being adapted to engagingly rest upon said relatively aligned wire portions upon one sliding position of said side bars within said lugs.

2,403,713
PREPARATION OF 4-BASICALLY SUBSTITUTED 2-SULPHANILAMIDOPYRIMIDINES
Jackson P. English, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 17, 1944, Serial No. 545,395
6 Claims. (Cl. 260—239.6)

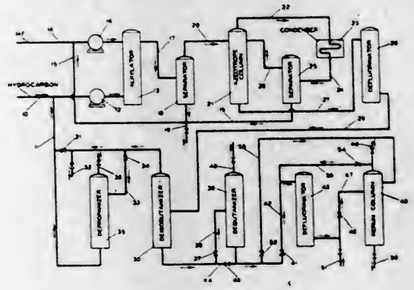
1. A method of preparing 2-sulphanilamido-4-aminopyrimidines which comprises heating together a 2-sulphanilamido-4-alkoxypyrimidine, having the formula



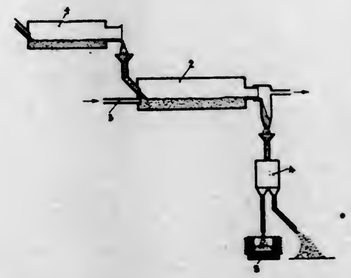
in which R is an alkyl radical, and a member of the class consisting of ammonia, primary amines and secondary amines.

2,403,714
PROCESS FOR THE TREATMENT OF HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 11, 1942, Serial No. 450,587
19 Claims. (Cl. 260—683.4)

9. In a process for producing normally liquid hydrocarbons substantially free from fluorine-containing compounds by alkylation of a low-boiling alkylatable hydrocarbon in the presence of a concentrated hydrofluoric acid alkylation catalyst, the improvement which comprises passing a liquid hydrocarbon material, separated from effluents of such an alkylation zone and containing hydrofluoric acid in solution, to a fractional distillation zone, removing from said material in said zone hydrofluoric acid as a low-boiling fraction, and passing from said distillation zone as a high-boiling fraction an essentially hydrofluoric acid-free fluorine-containing hydrocarbon mixture to a defluorinating zone without substantially heating or cooling said high-boiling fraction and contacting same, at about the kettle temperature used in said distillation zone, with a solid, porous metal oxide catalytically active for hydrogenation and dehydrogenation reactions for a time such that extensive chemical changes in the hydrocarbons present in said mixture are not effected and such as to effect a substantial removal of fluorine from said mixture.

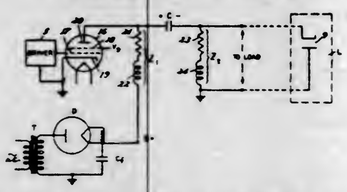


2,403,715
ELECTRIC FURNACE PROCESS FOR PRODUCING MOLTEN IRON FROM IRON ORE
Hans Gallusser, Geneva, Switzerland
Application July 30, 1943, Serial No. 496,796
In Switzerland February 5, 1942
1 Claim. (Cl. 75—11)



A method of processing iron ore for obtaining carbon-free iron, comprising the steps of dividing substantially carbon-free iron ore to an approximate grit size of one millimeter, roasting the divided ore in a first electric furnace under conditions precluding the access of carbon and carbon gases and in an enclosure in which partial vacuum prevails to remove moisture and any carbon dioxide present, transferring the roasted ore to a second closed electric furnace into which is admitted pure hydrogen, heating the roasted ore and hydrogen in said second furnace to such a temperature as will chemically reduce the ore to metallic iron, and fusing the resultant iron mass in a third electric smelting furnace.

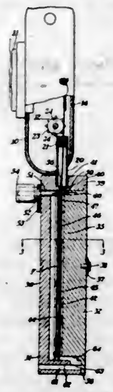
2,403,716
COMBINED AMPLIFIER AND POWER SUPPLY CIRCUIT
Harold Goldberg, Irondequoit, and Walter C. Thompson, Rochester, N. Y., assignors to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application February 7, 1944, Serial No. 521,460
7 Claims. (Cl. 171—97)



7. In an arrangement of the class described, an amplifier including an electron tube provided with a cathode, an anode and a control grid, said electron tube being normally biased to cut off, means for periodically applying positive voltage to said grid to render said electron tube conducting, a load circuit, two capacitors connected in series so that their voltages add, said capacitors serving to couple said anode to said load circuit, a rectifier unit including a transformer and two diodes, each having a cathode and a plate, said transformer having a primary winding and a secondary winding, said primary winding being connected to an alternating current source, one terminal of said secondary winding being conductively connected to the common terminals of said capacitors, the other terminal of said secondary winding being joined by a conductive connection to the plate of the first diode and to the cathode of said second diode, the cathode of the first diode being joined by a conductive connection to said anode, the plate of said second diode being joined by a conductive connection to the low potential side of said load circuit, at least two of said conductive connections being devoid of inductor or resistor elements, the stray capacitances of said unit being reduced to a low value.

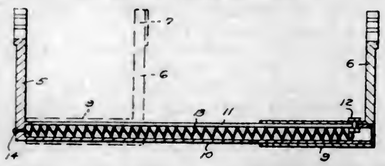
2,403,717
PHOTOGRAPHIC APPARATUS
Douglass C. Harvey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 3, 1944, Serial No. 547,879
11 Claims. (Cl. 95—13)

1. A combined auxiliary camera back and film processing cassette for use in place of the standard back on a camera body including a rotatable film-feeding member for advancing a film strip across the exposure plane of said camera, and comprising in combination a camera back complementary in shape and size to said standard camera back, and adapted to fit the camera body in a light-tight manner, means on said back for releasably attaching it to said camera body, means at one end of said back for rotatably supporting a supply roll of unexposed film, a light-tight film exit in the other end of said camera back through which the film is directed immediately after it crosses the focal plane and is exposed, a film advancing knob on said back, a clutch member connected to said knob and extending to the interior of said back for releasably connecting said knob to said film-feeding member, a cassette having a film chamber, means in said chamber for supporting a length of film so that the emulsion side thereof is free from contact with any surface, said cassette provided with a film entrance extending through one wall and into communication with said chamber, means for detachably connecting said cassette to said camera back so that the exit on said back and film entrance in said cassette are in light-tight communication, and a length of exposed film fed through said exit will be fed into said film supporting means in said cassette, means



for severing the length of film in said cassette from that in the camera, and means for rendering said cassette light-tight but free for circulation of processing fluid into and out thereof, so that when the cassette is removed from said back and is immersed in a tank of processing solution, the solution will contact the emulsion side of the film therein.

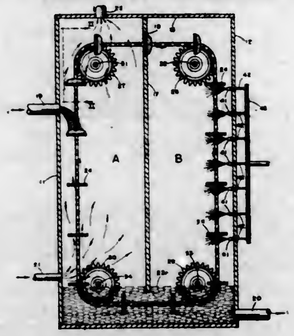
2,403,718
ACCESSORY TO TURNBUCKLE WRENCH
Thomas F. Hauck, Roscoe, Calif.
Application June 29, 1944, Serial No. 542,638
1 Claim. (Cl. 81—13)



A wrench accessory for engaging the swaged ends of cables attached to a turnbuckle, comprising a pair of cable engageable jaws and a slidable connection transversely to and between said jaws, said connection consisting of a short tubular member integral with one jaw, and a long tubular member integral with the other jaw and telescopically mounted within said short member, a stud on the short member engaging a longitudinal slot provided in said long member, and tension means within said connection secured respectively at its opposite ends to said jaw members, whereby said jaws will accommodate themselves to hold the cables exteriorly to the ends of the turnbuckle.

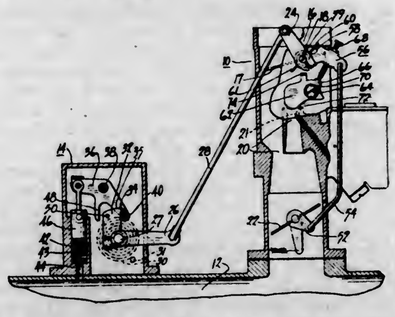
2,403,719
EVAPORATION TOWER FOR COOLING SUSPENSIONS
Claude R. Hocott, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 21, 1944. Serial No. 523,180
6 Claims. (Cl. 261—1)

1. Means for cooling a liquid comprising, in combination, a shell, a vertical partition within said shell cooperating with the shell to divide it into a first and a second zone with communication between the zones provided only by a first laterally extending opening adjacent the upper end of the shell and a second laterally extending opening adjacent the lower end of the shell, a first discharge means arranged to discharge liquid into the first zone at a substantial distance above the lower portion of the shell, a second inlet means arranged to discharge cooling gas into the first zone at a point substantially below the first inlet and above said laterally extending opening, a first outlet arranged adjacent the lower portion of the shell for removing liquid from the second zone, a second outlet arranged to remove gas from the upper portion of the first



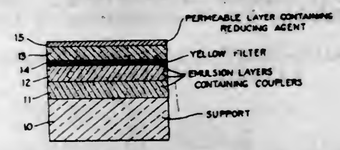
zone, splash pieces arranged to be moved through both zones comprising laterally spaced members, endless flexible means attached to one end of each of the laterally extending members, an upper and a lower pair of circular members arranged in each zone for rotary movement with one of each pair supporting one of the flexible members, said circular members being arranged to move the laterally extending members through said second laterally extending opening vertically upwardly in the first zone, through said first laterally extending opening and vertically downwardly in the second zone, and means arranged for discharging washing liquid on the laterally extending members as they move through the second zone.

2,403,720
CARBURETOR
Scott F. Hunt, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 24, 1932, Serial No. 630,274
36 Claims. (Cl. 123—119)



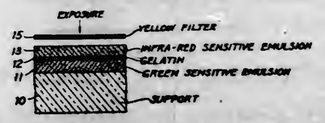
1. An automatic choke comprising an unbalanced choke valve, a vacuum operated cylinder having a piston resiliently urged outwardly, a lever actuated by said piston, a cam in engagement with said lever and actuated by said unbalanced choke valve, said cam adapted to drive said lever at a low mechanical advantage during initial opening movement of the choke valve.

2,403,721
PREVENTING COLOR FOG IN PHOTOGRAPHIC MATERIAL
Edwin E. Jelley and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 23, 1943, Serial No. 503,472
5 Claims. (Cl. 95—8)



1. A multilayer photographic film comprising a support having thereon at least one silver halide emulsion layer containing a coupler, and over said emulsion layer an outermost, exposed layer of a water-permeable colloid containing an organic reducing agent for oxidized photographic developers, said reducing agent containing an aliphatic group having a carbon chain of at least 8 carbon atoms and being non-diffusing in said water-permeable colloid layer.

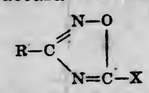
2,403,722
CAMOUFLAGE DETECTION
Edwin E. Jelley and Lot S. Wilder, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 24, 1942, Serial No. 463,214
8 Claims. (Cl. 95—2)



1. The method of detecting camouflage materials by photography, which comprises photographing a suspected object on a multi-layer photographic material having at least one uncolored layer sensitive to the infra-red region of the spectrum and at least one other uncolored layer sensitive to a visible region of the spectrum, developing said material and forming differently colored images therein.

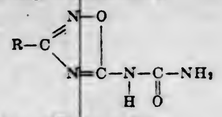
2,403,723
PREPARATION OF 1.2.4-OXADIAZOLES
Donald W. Kaiser, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 23, 1944, Serial No. 541,845
7 Claims. (Cl. 260—307)

1. A method of preparing compounds having the following structural formula



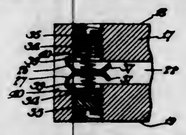
in which R is a member of the group consisting of alkyl, cycloalkyl, and aryl radicals, and X is a

member of the group consisting of amino and hydroxy radicals which comprises the step of heating in the presence of a hydrolyzing agent a compound having the formula



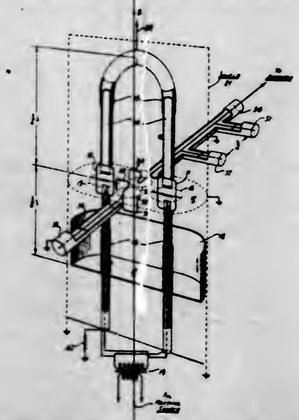
in which R is as defined above.

2,403,724
LOOM SHUTTLE
John J. Kaufmann, Jr., Greenville, S. C., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 4, 1944, Serial No. 525,005
4 Claims. (Cl. 139—217)



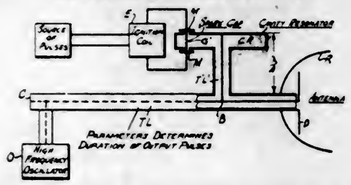
1. In a loom shuttle of the automatically threading type having a threading block mounted in one end thereof and having a longitudinal thread channel through which the filling thread passes from the bobbin to the outlet, tension members mounted in the threading block, springs mounted in the threading block pressing the tension members toward each other, angularly disposed portions along the sides of the tension members, and an additional laterally extending flange along the thread entrance side of each of the tension members, said flanges overlapping the sides of the thread channel at the entrance end thereof thereby to provide guards to prevent thread loops and lint from passing behind the tension members.

2,403,725
HIGH-FREQUENCY VACUUM TUBE CIRCUIT
Howard C. Lawrence, Jr., Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 28, 1943, Serial No. 508,045
19 Claims. (Cl. 250—36)



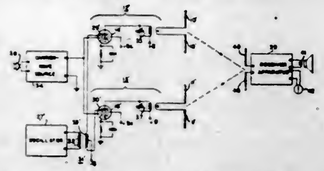
1. An ultra high frequency electron discharge device system comprising a tube having a cathode, an anode and a grid, individual tunable resonant circuits for said cathode and anode, means external of said tube for shielding said resonant circuits from each other, a direct conductive connection from said shield to said grid, a feedback loop magnetically coupling said resonant circuits together, and a connection from the center of said loop to said shield.

2,403,726
PULSE TRANSMISSION SYSTEM
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 13, 1942, Serial No. 454,660
10 Claims. (Cl. 250—17)



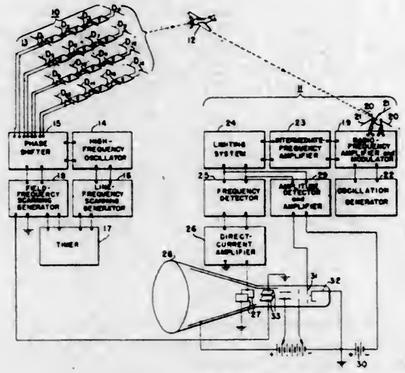
1. A pulse transmitter system including a power storing circuit in the form of a radio frequency wave carrying line circuit of large continuous phase distribution, a high frequency oscillator feeding energy into one end of said circuit, a load at the other end of said circuit, and means coupled across said circuit at a point intermediate the ends of said circuit for enabling the energy stored in said circuit to be periodically utilized by said load, said line circuit having such parameters that the time it takes a wave to travel the length of the line circuit as measured from the end coupled to the oscillator to said point is equal to one-half the duration of the pulse delivered to said load.

2,403,727
DIRECTION-FINDING SYSTEM
Arthur V. Loughren, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 10, 1941, Serial No. 418,541
8 Claims. (Cl. 250—11)



1. A direction-finding system comprising, a pair of antenna systems physically spaced by a value which provides a measurable phase difference in at least one direction between wave signals of a given frequency radiated by said antenna systems, a pair of carrier-wave translating paths having output circuits individually coupled to said antenna systems and having a common input circuit, a source of carrier waves coupled to said input circuit and having said given frequency, means for varying the amplitude of the carrier wave translated by one of said paths in accordance with a modulation signal, and means for varying the amplitude of the carrier wave translated by the other of said paths in accordance with said modulation signal but with a predetermined phase displacement relative to said first-named variation to provide around said antenna systems effectively one radiated carrier wave phase-modulated with said modulation signal, the amplitude of said phase modulation varying with the radial direction around said antenna systems from a given reference radial direction.

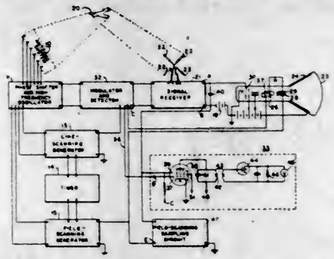
2,403,728
SYSTEM FOR INDICATING THE POSITION IN SPACE OF AN OBJECT
Arthur V. Loughren, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 28, 1941, Serial No. 420,772
8 Claims. (Cl. 250—11)



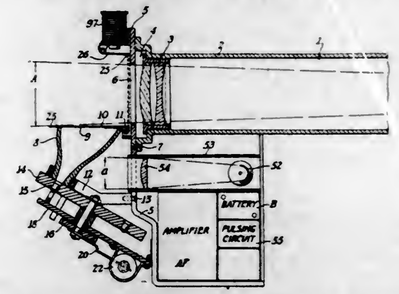
1. A system for locating a radiated-signal reflector comprising, an antenna system having a radiation characteristic effectively in the form of a sharply-concentrated beam, means for applying a carrier signal to said antenna system, means for varying the frequency of said carrier signal and for scanning a predetermined space in at least one direction with said beam synchronously with said frequency variation, means for receiving carrier-signal energy from said radiated beam reflected from said reflector, means responsive solely to said received carrier-signal energy for deriving therefrom a control signal a characteristic of which varies with the frequency of said received carrier-signal energy, and means responsive to said control signal and dependent upon the said characteristic thereof for indicating the position in space of said reflector.

2,403,729
COORDINATE DETERMINING SYSTEM
Arthur V. Loughren, Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application July 2, 1942, Serial No. 449,393
13 Claims. (Cl. 250—11)

1. A system for determining the scanning coordinate in a given scanning direction of the position of an object within a scanned space comprising, means for effectively scanning said space in a predetermined scanning pattern and for deriving a signal representing the scanning coordinate in said scanning direction of the position of said object within said space, means for deriving an electrical signal which represents any selected scanning coordinate of said space in said scanning direction, and means responsive to said first-named signal for controlling said last-mentioned means to derive an electrical signal which represents the scanning coordinate in said scanning direction of the position of said object within said space.

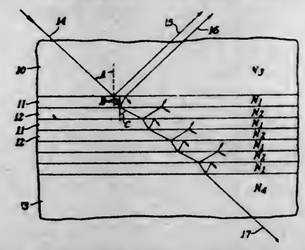


2,403,730
EXPLOSIVELY ACTUATED HIGH-SPEED SHUTTER
Stephen M. MacNeille, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 27, 1943, Serial No. 480,797
23 Claims. (Cl. 88—61)



1. A shutter for optical apparatus including an objective through which light rays may pass, said shutter including a support having a light opening aligned with the objective, a movably mounted shutter leaf carried by the support, an explosive charge holder so positioned that the shutter leaf may be directly engaged by the products of combustion and moved by firing the explosive charge, and means for firing the explosive charge.

2,403,731
BEAM SPLITTER
Stephen M. MacNeille, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 1, 1943, Serial No. 481,391
12 Claims. (Cl. 88—65)



1. A multilayer material for polarizing light of wavelength λ comprising a plurality of thin transparent layers each of which is of uniform thick-

ness and forms a refracting interface with the adjacent layers, the alternating and intervening layers having different indices of refraction N_1 and N_2 respectively, the alternate layers each having a thickness

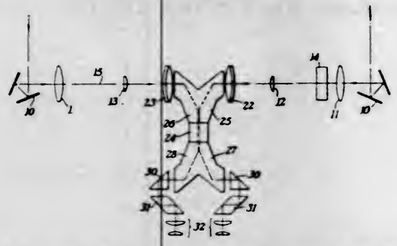
$$\frac{\lambda\sqrt{N_1^2+N_2^2}}{4N_1^2}$$

and the intervening layers each having a thickness

$$\frac{\lambda\sqrt{N_1^2+N_2^2}}{4N_2^2}$$

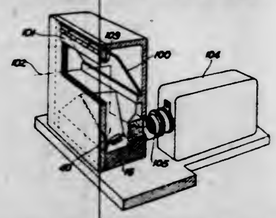
which causes constructive optical interference to light reflected at Brewster's angle and which hence causes increased reflectivity at said angle.

2,403,732
RANGE FINDER
Stephen M. MacNeille, Oak Ridge, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 11, 1944, Serial No. 526,020
12 Claims. (Cl. 88—2.7)



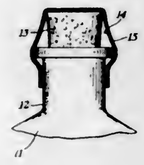
1. A range finder comprising means at spaced viewing points for receiving light beams from the target being ranged and for directing them toward each other along an optical axis, a beam-combining reflector lying coplanar with the axis and to one side thereof, a plurality of reflecting surfaces in each beam oriented to direct the beams to opposite sides of said reflector and to rotate them through 90° in opposite directions, lens means for focusing each beam to form images which, due to the rotation of the beams, are inverted relative to one another and means for viewing the images from at least one side of the combining reflector.

2,403,733
STEREOSCOPIC OPTICAL SYSTEM
Pompey Mainardi and Marcus N. Mainardi, Paterson, N. J.
Application May 22, 1941, Serial No. 394,676
14 Claims. (Cl. 88—16.6)



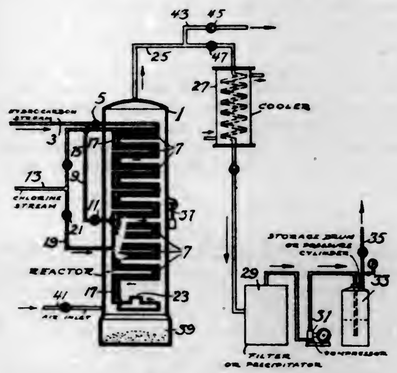
1. An optical system for projecting from or taking stereoscopic pictures adjacent to one another and oriented oppositiaxially on a film which system comprises an objective lens, means for holding the film in the back focus plane of the lens, an isosceles prism in front of the lens with the base face of the prism adjacent to the lens and with the opposite side faces oriented to reflect across each other and respectively through the other of the opposite side faces two separate and distinct light beams adjacent to each other at said back focus plane, crossing in the lens and passing through the base face of the prism and two reflectors positioned on opposite sides of the prism to intercept the beams and oriented to rotate the beams through 90° in opposite directions and to reflect them into stereoscopic coincidence at the front focus of the lens.

2,403,734
BOTTLE CAP
Carl J. Malm and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 23, 1943, Serial No. 507,353
3 Claims. (Cl. 215—38)



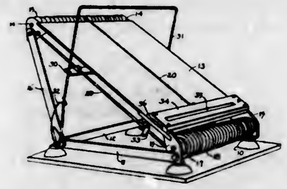
1. A container closure cap of the type adapted to shrink by loss of solvents comprising an inner layer of polyvinyl alcohol, and an outer layer composed of cellulose acetate butyrate.

2,403,735
HYDROGEN CHLORIDE MANUFACTURE
Ralph Burgess Mason and Jerry A. Pierce, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application November 26, 1942, Serial No. 467,054
4 Claims. (Cl. 23—156)



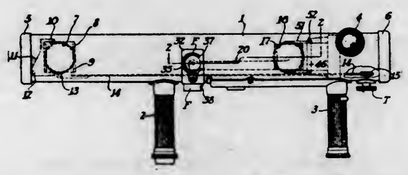
1. A process for preparing hydrogen chloride by the reaction of chlorine with a normally gaseous hydrocarbon which consists in heating separately chlorine and a normally gaseous hydrocarbon by the heat generated by their reaction, bringing said heated gases in separate conduits together to a common point, burning the two gases at the point of contact, one supporting the combustion of the other, and recovering the hydrogen chloride thus formed.

2,403,736
STRIP CIPHER DEVICE
John W. McClaran, United States Navy
Application November 28, 1932, Serial No. 644,723
7 Claims. (Cl. 35—2)



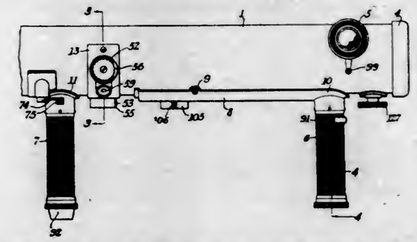
1. In a device of the class described, a plate, supporting means therefor, a plurality of grooved pulleys at one end thereof, an equal number of grooved pulleys at the other end thereof, each of the last mentioned pulleys being disposed to coact as one member of a pair with a pulley at the other end of said plate and having an outwardly extending flange whereby the pulley may be rotated, a plurality of flexible strips passing around said plate and over a pulley at each end thereof, resilient means connecting the ends of each strip and having an outwardly extending lug, each said strip having on it two alphabets one above the other in the same random sequence but the sequence on each strip being different from that of any other strip, a slide movable longitudinally of said plate having a slot through which a letter on each strip may be seen, an interrupter insertable in said slide to cover selectively any desired strip or strips, and means slidable longitudinally of said plate to align all of said lugs.

2,403,737
MOUNT FOR OPTICAL ELEMENTS
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 10, 1942, Serial No. 461,584
8 Claims. (Cl. 88—2.7)



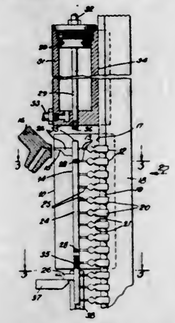
1. A mount for optical elements for range finders on which the elements may move in two directions, comprising an optical element, an arm support therefor, means for holding the optical element on one end of the arm, a pivotal mount for the arm about which the arm may turn in one direction, said pivotal mount including a bracket, a pivotal mount for the bracket on which the arm and bracket may turn in another direction, at least a portion of said arm extending from said pivotal mount and including a pair of surfaces, one arranged parallel to the axis of the arm pivotal mount and the other arranged parallel to the axis of the bracket pivotal mount, an adjustable support for both of said surfaces whereby the inclination of the arm about its two pivotal axes may be altered.

2,403,738
RANGE FINDER CONSTRUCTION
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 10, 1942, Serial No. 461,585
17 Claims. (Cl. 88—2.7)



1. In a range finder, the combination with an elongated casing including optical parts of which some are adjustable for range finding, of handles for supporting the casing and means for resiliently attaching the handles to the casing whereby pressure applied to the handles may be at least partially absorbed by the resilient attaching means and the tendency to distort said elongated casing may be reduced to a minimum.

2,403,739
METHOD OF FORMING SEPARABLE FASTENER SCOOPS
Louis H. Morin, Bronx, N. Y., assignor of one-half to Davis Marinsky, Bronx, N. Y.
Application July 8, 1942, Serial No. 450,106
6 Claims. (Cl. 18—55)



1. The method of casting scoop blanks, which comprises forming a unit casting in relatively movable dies provided with a plurality of scoop cavities arranged at spaced intervals and a common gate for feeding material into said cavities, whereby a casting comprising a plurality of spaced scoops united by a common gate element is formed, separating the dies to strip the unit casting from the dies, supporting the unit casting by said gate element centrally between the open dies, and then pushing the unit from between said dies by a force acting directly on said gate element.

2,403,740
APPARATUS FOR SEPARATING SHOT PARTICLES FROM MINERAL WOOL
Carl G. Muench, Wilmette, Ill., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application December 31, 1942, Serial No. 470,905
6 Claims. (Cl. 83—91)

1. An apparatus comprising means for suspending fibers and unfiberized particles in a moving

fluid stream, a fiber receiving chamber arranged to receive such stream, and a baffle disposed in said receiving chamber transversely of such stream, said baffle provided with a saw tooth like configuration comprising pairs of angularly ar-



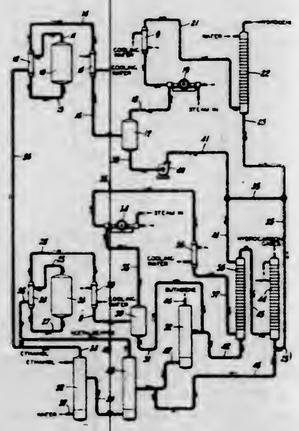
ranged surfaces, one surface of each pair disposed substantially coplanar with the moving stream, the other surface of each pair disposed in a plane transverse to the moving stream for intercepting and deflecting such particles in a direction appreciably different from that of the moving stream.

2,403,741

PROCESS FOR MAKING BUTADIENE

Irvin L. Murray, Charleston, and Jay L. Marsh, South Charleston, W. Va., and Silas P. Smith, Jr., Louisville, Ky., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application September 9, 1943, Serial No. 501,610
11 Claims. (Cl. 260—681)



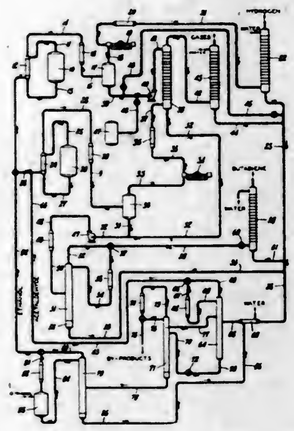
1. In a process for making butadiene from ethanol, in which ethanol is passed to a reaction zone and a part of such ethanol converted to acetaldehyde, and in which ethanol and acetaldehyde are converted in a separate reaction zone to hydrocarbons including butadiene in major amounts and lower hydrocarbons having less than four carbon atoms in minor amounts, the step of removing butadiene from said lower hydrocarbons which comprises passing a liquid mixture of ethanol and acetaldehyde obtained from said first reaction countercurrently to a gaseous mixture containing butadiene and said lower hydrocarbons, absorbing butadiene in said liquid mixture and removing said liquid mixture from contact with said gaseous mixture.

2,403,742

PROCESS FOR MAKING BUTADIENE

Irvin L. Murray, Charleston, and Jay L. Marsh, South Charleston, W. Va., and Silas P. Smith, Jr., Louisville, Ky., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application September 9, 1943, Serial No. 501,611
8 Claims. (Cl. 260—681)



1. A cyclic process for making butadiene which comprises introducing ethanol vapors to a reaction zone, converting a part of such ethanol vapors to acetaldehyde and separating an acetaldehyde-ethanol condensate from the remainder of the reaction products; concurrently introducing ethanol and acetaldehyde vapors to a separate reaction zone, converting a part of the ethanol and acetaldehyde to butadiene and separating the butadiene from unconverted ethanol and acetaldehyde; distilling acetaldehyde from a mixture containing such unconverted acetaldehyde and said condensate and passing it to the butadiene-producing reaction zone, distilling ethanol from a mixture of the remainder of said condensate and such unconverted ethanol and returning said recovered ethanol to at least one of the reaction zones; and introducing additional ethanol to at least one reaction zone.

2,403,743

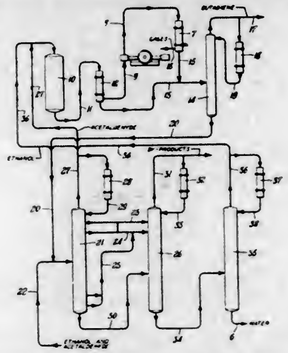
CYCLIC BUTADIENE PROCESS

Melville E. Hitchcock, South Charleston, and John A. Field, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application March 16, 1944, Serial No. 526,792
7 Claims. (Cl. 260—681)

1. In a cyclic process for producing butadiene which comprises passing acetaldehyde and ethanol over a catalyst to form a mixture including butadiene, unreacted acetaldehyde and by-products containing diethyl ether, the steps of removing butadiene from said mixture, and continuously distilling the mixture after expulsion of butadiene to separate a distillate comprising acetaldehyde and diethyl ether, containing at least about 75% acetaldehyde by weight, by withdrawing a fraction less volatile than said distillate at a section above the feed point, and leaving a residue; recycling said acetaldehyde distil-

late over the catalyst; distilling such residue to remove by-products in the presence of such with-



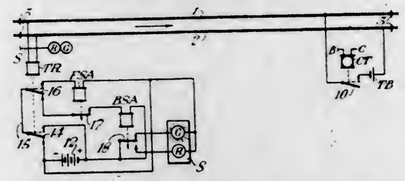
drawn fraction and removing a by-products distillate containing at least part of such fraction.

2,403,744

CODE DETECTING MEANS

Frank H. Nicholson, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application March 16, 1945, Serial No. 583,058
6 Claims. (Cl. 246—34)



1. In combination, a code following relay having two movable contacts actuated between a first and a second position substantially in synchronism, a source of current having a first and a second terminal, a first slow releasing auxiliary relay having one terminal of its winding connected to the first terminal of said source, a circuit including said code following relay contacts in series for connecting the other terminal of the winding of said first auxiliary relay to the second terminal of said source of current when said code following relay contacts are both in their second position, a second auxiliary relay having one terminal of its winding connected to the second terminal of said source, circuit means including in series a front contact of said first auxiliary relay and said code following relay contacts for connecting the other terminal of the winding of said second auxiliary relay to the first terminal of said source when said code following relay contacts are both in their first position, and a control circuit governed by a contact of said second auxiliary relay.

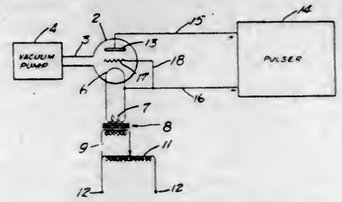
2,403,745

APPARATUS AND METHOD FOR MAKING TUBES

Robert Leigh Norton, Burlingame, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California

Application December 21, 1943, Serial No. 515,189
9 Claims. (Cl. 316—26)

1. The method of making a vacuum tube having an electrode, which comprises intermittently bombarding the electrode with electrons emitted by a continuously heated cathode to heat the electrode, and limiting each period of bombard-



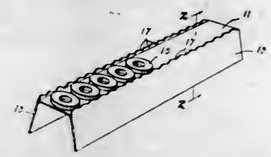
ment to a time interval so small that the ionization of gas in the tube is insufficient to cause destructive bombardment of the cathode.

2,403,746

MOUNTING AND DISPLAY CARDS

Albert R. Nutt, Lakewood, Ohio, assignor to Forest City Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application July 15, 1944, Serial No. 545,027
4 Claims. (Cl. 206—79)



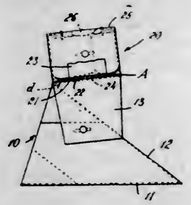
3. The combination with a plurality of oval corn pads, of an elongated rectangular card having parallel score lines extending the full length thereof and spaced apart a distance greater than the length of the pads, and a pair of elongated flaps extending lengthwise of the card for gripping the pads, each flap being attached to the face of the card outwardly of one of the score lines and extending inwardly past the same, the inner portions of the flaps being unattached and the inner edges thereof being normally spaced apart a distance less than the length of the pads, said inner edges having pad positioning scallops to receive the ends of the pads, said card being bendable about said score lines to spread the gripping edges of said flaps to permit insertion or removal of pads.

2,403,747

MICROFILM READER

William F. O'Gorman, New York, N. Y., assignor of one-half to Daniel N. Garrett, Middletown, N. J.

Application April 22, 1944, Serial No. 532,285
3 Claims. (Cl. 88—39)



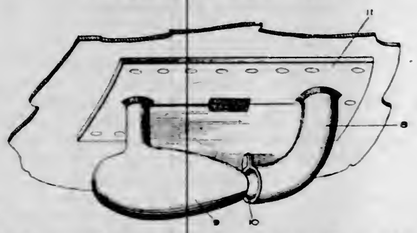
1. A folding microfilm reader constructed of stiff sheet material cut into a blank having a

series of interconnected panels and side flaps and scored with fold lines, said blank being bent at the fold lines to form a pedestal having an inclined member and side shields, the surfaces of the blank which form the upper surface of the inclined member and the inner surfaces of the side shields being of a light reflecting color and to form a chamber the base of which is made of two adjacent panels of the blank folded upon each other to form an edge of a slot for receiving a film and fastened together at a distance from said edge exceeding the width of the film, said adjacent panels being provided with registering framed openings and a magnifying lens in the panel which forms the top of the chamber.

2,403,748
MANUFACTURE OF 2,6, DI-HALO PHENOLS
John F. Olin, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 29, 1943, Serial No. 516,090
7 Claims. (Cl. 260—623)

1. In the manufacture of 2,6, di-halo phenols, the process comprising halogenating a 4-tertiary alkyl phenol to form the corresponding 2,6, di-halo, 4-tertiary alkyl phenol, and thereafter catalytically dealkylating the resulting 2,6, di-halo, 4-tertiary alkyl phenol in the presence of an alkyl acceptor.

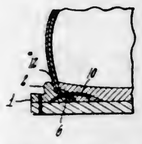
2,403,749
FUEL TANK VENT
William B. O'Neal, Ellicott City, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application May 17, 1943, Serial No. 487,255
2 Claims. (Cl. 244—135)



1. In combination in an aircraft, a flexible non-self-supporting fuel containing cell mounted in said aircraft, a vent mounted on the external surface of said aircraft, a vent line extending from said vent to said cell, said vent comprising a forwardly directed open-ended tube, a streamlined body having a surface of revolution positioned in front of and coaxial with said tube, the trailing end of said streamlined body truncated to a diameter substantially equal to the diameter of said tube, said truncated end of said body being spaced from the open end of said tube, said spacing being such as to regulate the amount of air flowing over the body that will enter the open end of said tube.

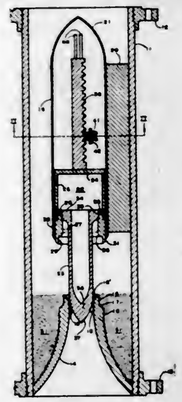
2,403,750
WELT AND METHOD OF MAKING THE SAME
Emil R. Ouimet, Brockton, Mass.
Application February 16, 1945, Serial No. 578,219
5 Claims. (Cl. 36—78)

1. A welt comprising a strip having an upwardly extending bead between and spaced from its side edges, the marginal portions on either



side of said bead tapering in thickness toward the inner edge of the welt.

2,403,751
THROTTLING VALVE
Jewell S. Palmer, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 20, 1945, Serial No. 583,758
6 Claims. (Cl. 302—1)



1. A valve comprising, in combination, a tubular body defining a central passage, a wall member shaped in the form of a nozzle arranged in said central passage with its smaller throat end pointing in the upstream direction within said passage and its large diameter end secured to the inner wall of said tubular body and defining a valve seat on its outside surface spaced slightly downstream from the upstream end of said member, a movable member defining a conoidal surface with a maximum diameter slightly less than the minimum diameter of the throat of said wall member, and an annulus upstream from the conoidal surface arranged to cooperate with the seat of the said wall member to form a fluid-tight seal, and a mounting means arranged to support said movable member at a point upstream from the wall member and adapted to move it along the longitudinal axis of the tubular body to bring the seat of said movable member into contact with the seat of said wall member.

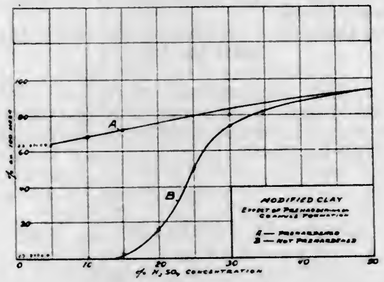
2,403,752
FLEXIBLE REFLEX REFLECTING FILM
Matthew H. Phillippi, St. Paul, Minn., assignor, by direct and mesne assignments, to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application February 13, 1940, Serial No. 318,701
8 Claims. (Cl. 41—33)

2. A decalcomania transfer comprising a base sheet, a paste coating thereupon, a flexible base sheet adhered to said paste coating, a multiplicity of closely grouped reflex reflecting elements ad-



hered to said base sheet, and a top coat of transparent material upon said reflecting elements.

2,403,753
CATALYSTS
Jerry A. Pierce and William E. Spicer, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 6, 1943, Serial No. 485,822
6 Claims. (Cl. 196—52)



1. In the activation of bentonite clays by treating them with dilute sulfuric acid, the method of preventing the swelling and decrepitation of the clay consisting in first immersing the clay in a solution of sulfuric acid having a concentration of 50% by weight and then treating the clay with a dilute acid having a concentration not greater than 30%.

2,403,754
SEAPLANE SPONSON
John D. Pierson, Overlea, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application February 9, 1944, Serial No. 521,608
5 Claims. (Cl. 244—135)



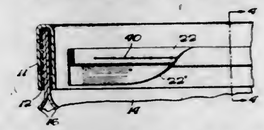
1. In combination with a stepped seaplane hull, sponsons adapted to carry auxiliary fuel comprising tanks extending along the chine on each side of the hull forward and aft of the step, the bottom of the sponsons forming substantially a continuation of the bottom of the hull, said sponsons comprising a plurality of separate tanks placed along the chine with their ends contiguous, whereby a substantially unitary sponson is formed, said sections being separately removable for service and repair, means to detachably secure said sponsons to said hull, whereby said sponsons may be dropped after performing their dual function of increasing the planing area and affording storage space for auxiliary fuel.

2,403,755
REGENERATIVE INDICATING SYSTEM
John A. Rankin, Port Washington, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 22, 1941, Serial No. 407,966
11 Claims. (Cl. 250—2)



1. A radiant energy system for use between a pair of stations at least one of which is a vehicle, said stations having amplifiers operating at the same frequency, and input and output antennas for each amplifier arranged to minimize coupling therebetween, whereby the amplifiers of said stations together, within a predetermined distance of each other, constitute a regenerative circuit by virtue of the space radiation between the output antenna of each amplifier and the input antenna of the other amplifier.

2,403,756
SEWED BAG CLOSURE
Robert E. Read, Savannah, Ga., assignor to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey
Application February 1, 1943, Serial No. 474,367
6 Claims. (Cl. 229—62)



1. A paper bag comprising a tube having a collapsed end, a strip of material folded over said collapsed tube end, a reinforcing strip overlying said folded over strip, stitching through said reinforcing strip, folded over strip and collapsed tube end, and a portion of said reinforcing strip folded and adhesively secured over the stitching.

2,403,757
PROCESS OF ISOMERIZING DIALKYL BENZENES
Edward D. Reeves, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 18, 1943, Serial No. 499,117
10 Claims. (Cl. 260—668)

1. A process for the isomerization of ortho dialkyl benzenes which comprises contacting a feed stock comprising essentially said ortho substituted dialkyl benzenes at a temperature between about 500° F. and about 1100° F. with a catalyst mass comprising a synthetic alumina-silica gel for a sufficient length of time to form substantial amounts of meta and para isomers, said gel containing at least one oxide taken from the group consisting of boron oxide, thoria, zirconia and magnesia.

2,403,758
ASYMMETRICAL DITERTIARY PEROXIDES
Frederick F. Rust, Berkeley, Frank H. Dickey, Oakland, and Edward R. Bell, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 4, 1943, Serial No. 504,980
9 Claims. (Cl. 260—610)

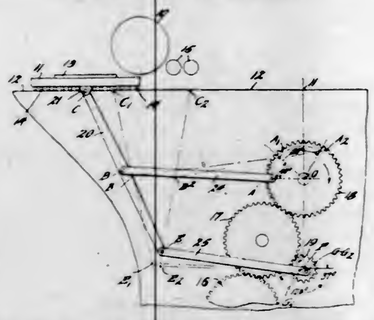
1. Tertiary butyl-tertiary amyl peroxide.

2,403,759
FISH LURE
Andrew Sabe, Tunbridge, N. Dak.
Application October 31, 1944, Serial No. 561,196
1 Claim. (Cl. 43—42)



In a fish lure, a body of flexible material, having the form of a fish, a leader at the front end of the body, and a wobbler member on said leader comprising an elongated plate of arcuate cross section, said leader having the form of a wire loop, said member extending endwise across aid leader so that the long edges thereof are in a plane at a right angle substantially to the plane of the leader and being loosely mounted on said leader to wobble sidewise.

2,403,760
TWIN CRANK BED MOTION
Frederick W. Seybold, Westfield, N. J., assignor to American Type Founders, Inc., Elizabeth, N. J., a corporation of New Jersey
Application January 31, 1944, Serial No. 520,559
9 Claims. (Cl. 74—27)



1. A bed motion of the class described comprising, in combination, a reciprocating bed, means for driving the bed comprising a lever having one end pivotally connected with the bed and extending at an angle to the direction of movement of the bed, a power driven crank operatively connected with an intermediate portion of said lever, another power driven crank operatively connected with the end of said lever remote from said bed, and power means unconnected with said lever or bed except through said cranks for driving said cranks at different angular velocities.

2,403,761
APPARATUS FOR HEAT-TREATING INTERNAL SURFACES OF METAL ARTICLES
Albert Edward Shorter, Sheffield, England, assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio
Application May 28, 1942, Serial No. 444,804
In Great Britain June 4, 1941
4 Claims. (Cl. 158—27.4)

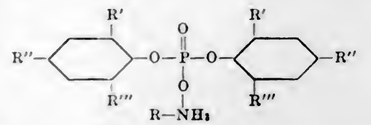
1. A device for heat treating an internal surface of a hollow metal article, comprising a burner head adapted to be inserted within the article and having a plurality of longitudinally extending rows of transversely extending outlets for directing high temperature heating flames against said surface; and passages terminating in longitudinally extending rows of transversely extending outlets between adjacent pairs of said



outlet rows, for supplying an auxiliary combustion supporting gas to said heating flames.

2,403,762
FATTY AMINE SALTS OF ACID PHOSPHATE DI-ESTERS
Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 19, 1945, Serial No. 583,652
19 Claims. (Cl. 260—461)

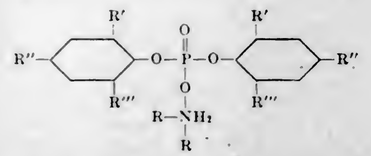
1. As new compositions of matter, useful as rust preventive compounds and for other purposes, the oil-soluble addition salts having the following formula:



wherein R represents an alkyl group containing from 8 to 18 carbon atoms, and R′, R″, and R‴ represent a substituent selected from the class consisting of hydrogen and an alkyl group, at least one branched chain alkyl group being present, said amine salt being a substantially neutral compound soluble in mineral oils and miscible with hydrocarbons.

2,403,763
DI-CYCLOHEXYL AMINE SALT OF ACID PHOSPHATE DI-ESTERS
Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 19, 1945, Serial No. 583,653
12 Claims. (Cl. 260—461)

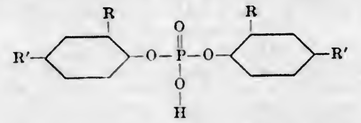
1. As new compositions of matter, useful as rust preventive compounds and for other purposes, the oil-soluble addition salts having the following formula:



wherein R represents a cyclohexyl group and R′, R″ and R‴ represent a substituent selected from the class consisting of hydrogen and an alkyl group, at least one branched chain alkyl group being present, said amine salt being a substantially neutral compound soluble in mineral oils and miscible with hydrocarbons.

2,403,764
MINERAL OIL COMPOSITION
Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 19, 1945, Serial No. 583,654
11 Claims. (Cl. 252—32.5)

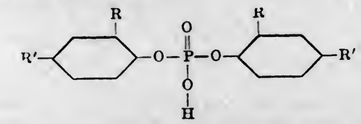
1. An improved oil composition, effective as a lubricant for metal surfaces and capable of preventing corrosion thereof in the presence of moisture and air, comprising a petroleum lubricant containing in solution therein a small proportion of a substantially neutral addition product of a primary fatty amine containing from 8 to 18 carbon atoms and an acid phosphate di-ester of a di-alkylated phenol having the following formula:



wherein R represents a branched chain alkyl group and R′ represents an alkyl group, said substantially neutral addition product having a pH between 5.5 and 7.5 and the proportion thereof dissolved in the lubricant being sufficient to prevent rusting of ferrous metals.

2,403,765
MINERAL OIL COMPOSITION
Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 19, 1945, Serial No. 583,655
11 Claims. (Cl. 252—32.5)

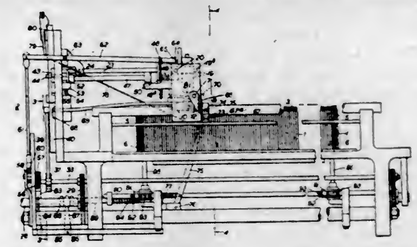
1. An improved oil composition, effective as a lubricant for metal surfaces and capable of preventing corrosion thereof in the presence of moisture and air, comprising a petroleum lubricant containing in solution therein a small proportion of a substantially neutral addition product of di-cyclohexyl amine and an acid phosphate di-ester of a di-alkylated phenol having the following formula:



wherein R represents a branched chain alkyl group and R′ represents an alkyl group, said substantially neutral addition product having a pH between 5.5 and 7.5 and the proportion thereof dissolved in the lubricant being sufficient to prevent rusting of ferrous metals.

2,403,766
MEANS FOR THE PRODUCTION OF KNITTING
Herbert Noel Smith and Elizabeth Ethel Smith, Daventry, England
Application June 13, 1942, Serial No. 446,912
In Great Britain May 10, 1941
61 Claims. (Cl. 66—1)

1. A knitting machine comprising looping means and a series of stitch guard members, said looping means being constructed and arranged to engage the thread and form a new loop through a previously formed stitch while this is held open around one of said members, means for causing said looping means so to co-operate successively with members of such series and the stitches thereabout, means operative to cause the

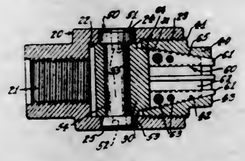


transfer of the new loops from the looping means to members of said series as new stitches in turn to be held open for further new loops to be formed through them by the looping means, and means operative to cause the release of the previously formed stitches from the members.

2,403,767
RESINATE
Harold M. Spurlin, Marshallton, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 16, 1943, Serial No. 498,876
12 Claims. (Cl. 260—100)

1. As a product, aluminum isopropoxide diresinate.

2,403,768
DOUBLE-ACTING COLLET CHUCK
Arthur Merrick Stoner, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 31, 1944, Serial No. 552,065
8 Claims. (Cl. 279—51)

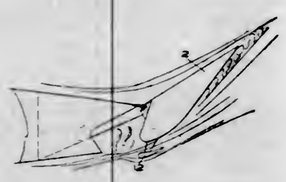


1. A chuck comprising a hollow body, means for attaching the body to a machine tool, a thrust block longitudinally slidable in the body having a transverse slot therein and a transverse abutment surface formed on its forward end, a collet comprising a plurality of angularly spaced wedge-shaped gripping members of rigid material with their wider ends in slidable engagement with said abutment surface and a body of resilient material interconnecting said gripping members and holding said members in substantially radial positions, a member in adjustable threaded engagement with the forward part of the body, a cone-shaped cam actuated by said threaded member arranged to engage the outer edges of the gripping members to move their inner ends across the abutment surface of the thrust block, and a pin passing through the thrust block having an enlarged end portion seated in a circular opening in the body and rotatable therein, said end portion of the pin being eccentric to the part thereof which is in the thrust block.

2,403,769
MANUFACTURE OF ACETIC ANHYDRIDE
Karl Heinrich Walter Tuerck, Banstead, and Eric Harvey Brittain, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
Application October 29, 1942, Serial No. 463,819
In Great Britain July 23, 1941
4 Claims. (Cl. 260—530)

1. A process for the manufacture of acetic anhydride and acetic acid which comprises subjecting acetaldehyde in the liquid phase to the action of molecular oxygen in the presence of paraldehyde to form a reaction mixture comprising essentially acetic anhydride, acetic acid, water and paraldehyde, distilling at least part of said reaction mixture to remove water therefrom in the form of a vapour in admixture with paraldehyde, separating residual paraldehyde from its admixture with the acetic anhydride and acetic acid by depolymerizing said paraldehyde to acetaldehyde and distilling off the formed acetaldehyde and recovering the residual acetic anhydride and acetic acid.

2,403,770
AILERON
Willem D. van Zelm, Ruxton, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application November 4, 1942, Serial No. 464,447
8 Claims. (Cl. 244—90)



1. An aileron mounting for the trailing edge of an airplane wing, comprising hinge means movably securing said aileron to said wing, said hinge means comprising brackets secured to the upper leading edge of the aileron within the contour of the wing, the axis of said hinge being close to the inside of the upper contour of said wing and the lower leading portion of said aileron having a contour so that for maximum upward deflections of the aileron, the contour of said aileron remains approximately in the plane of the lower surface of said wing, strips secured to the top surface of said wing and said aileron extending the length of the aileron which engage each other and cover the space therebetween to prevent the flow of air therethrough, a slat secured in fixed-spaced relation to the lower leading edge of said aileron having a negative lift with respect to said wing when said slat is in its operative position, said slat moving with said aileron into an inoperatve position between the wing and the aileron when said aileron is in the neutral or down position and into an operative position extending into the airstream below said wing upon an upward movement of the aileron whereby all of the air flow on the under side of the wing is bent without turbulence around the lower surface of said aileron to effect an increase in rolling moment of said wing.

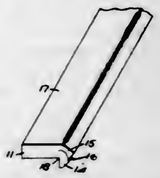
2,403,771
ORGANIC PEROXIDES
William E. Vaughan and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 15, 1943, Serial No. 510,420
5 Claims. (Cl. 260—610)

1. Di(tertiary butyl) peroxide.

2,403,772
PRODUCTION OF ORGANIC HYDROPEROXIDES
William E. Vaughan and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 15, 1943, Serial No. 510,421
8 Claims. (Cl. 260—610)

1. A process for the production of tertiary butyl hydroperoxide which comprises reacting substantially equivolumetric vaporous amounts of isobutane and oxygen, at a superatmospheric pressure and at a temperature of between about 150° C. and about 200° C., in the presence of hydrogen bromide employed in an amount of about 2 mol per cent of the total mixture, effecting the reaction for a period of time sufficient to cause a substantial reaction of the oxygen employed, and recovering tertiary butyl hydroperoxide from the reaction mixture thus formed.

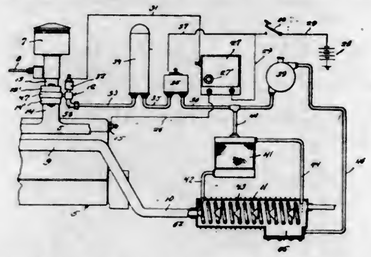
2,403,773
PREFORMED WELTING
William C. Vizard, Brockton, Mass., assignor to Barbour Welting Company, Brockton, Mass., a copartnership composed of Perley E. Barbour, Walter G. Barbour, and Richard M. Barbour
Original application February 7, 1944, Serial No. 521,465. Divided and this application February 7, 1946, Serial No. 646,183
2 Claims. (Cl. 36—78)



1. Preformed welting comprising a welt strip having a longitudinal slit along its inseam edge to provide a pair of lips, said lips being folded downwardly relative to the welt extension and cemented together to form a depending inseam flange, the crease of the fold serving as a guide for the inseam stitch.

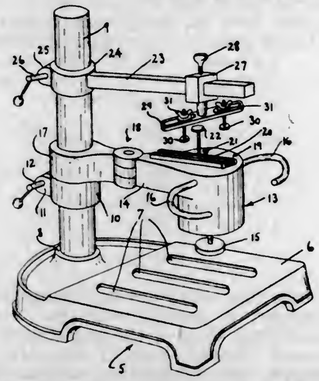
2,403,774
CONTROL FOR INTERNAL-COMBUSTION ENGINES
Victor E. Whitty, Oakland, and Frank M. Whitty, Los Angeles, Calif.
Application March 23, 1945, Serial No. 584,368
3 Claims. (Cl. 123—25)

1. Means for electronically controlling detonation in internal combustion engines, comprising in coordinated combination, a microphone inserted in the water of the cooling system of the engine and shielded against transmission of sounds other than that conducted by the water directly to the sound transmission element of the microphone, a variable gain amplifier having a shielded electrical conductor operating connection with said microphone, a water supply and mixing device interposed in the regular fuel mix-



ture supply duct to the engine, means under pressure for supplying water to the water supply and mixing device, and an electrically operated metering valve controlling the supply of water to said water supply and mixing device, said metering valve being under the control of said amplifier.

2,403,775
GRINDER
Wilfrid G. Wilson, Fort William, Ontario, Canada
Application December 20, 1944, Serial No. 569,048
4 Claims. (Cl. 51—100)

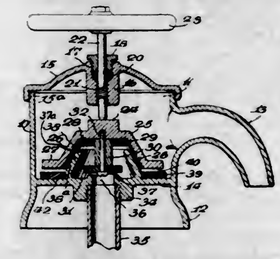


2. A grinder of the class described comprising a base, a post attached to and rising vertically from said base, a stop collar adjustable on said post, an arm provided with a ring at its inner end surrounding the post and cooperable with the stop collar, a motor on the outer end of said arm, a tool carried by said motor, said arm being attached to said ring by way of a rule joint, handles mounted on diametrically opposite sides of said motor, and a feeler wheel slidably and adjustably mounted on said motor.

2,403,776
PREPARATION OF 2-(N⁴-ACYLSULPHANILAMIDO) PYRAZINE
Philip S. Winnek, Indianapolis, Ind., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 25, 1943, Serial No. 499,995
3 Claims. (Cl. 260—239.6)

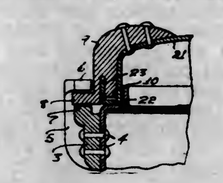
1. The process of producing a 2-(N⁴-acylsulphanilamido) pyrazine which comprises heating at a temperature within the range of 150° C. to 300° C. a substance selected from the group consisting of N⁴-acylsulphanilamides and metal salts thereof with a 2-halogenated pyrazine selected from the group consisting of 2-chloropyrazine and 2-bromopyrazine, in the presence of a basic substance and copper powder.

2,403,777
VALVE FOR CONTROLLING DISTRIBUTION OF FLUIDS
Adolph J. Yanka, University Park, Md.
Application April 16, 1943, Serial No. 483,314
8 Claims. (Cl. 251—27)



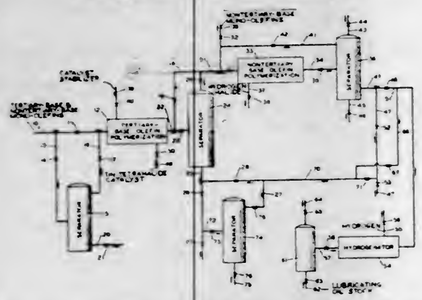
1. A faucet having a casing enclosing a valve body, a supply orifice and discharge orifice spaced in said body and a port therein communicating with said orifices and surrounded by a frusto-conical wall comprising a valve seat, an inverted cup carrying a washer for engaging said seat to form a sealing element for said port, a second washer carried by said inverted cup for extension into said frusto-conical wall, an annular ridge arranged between said wall and said port constituting a valve seat for said second washer, a third washer surrounding said frusto-conical wall, a peripheral rim on said cup disposed for sealing engagement with said third washer and rotatable control means in said body for controlling pressure of said washers on said seats.

2,403,778
COVER SEALING MEANS FOR PRESSURE COOKERS
Vit Zdanaitis, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application February 14, 1945, Serial No. 577,897
3 Claims. (Cl. 220—40)



1. A pressure cooker comprising a body member formed with a peripheral seat internally bounded by an upwardly extending flange, a cover member having a yielding periphery formed by a substantially horizontal flange merging into a vertical flange, a plurality of hangers carried by the cover member and embracing its peripheral flanged area, a plurality of blocks carried by the body member and adapted for registration with said hangers, and co-acting lug and lug-engaging members carried by the hangers and blocks, a handle being carried by the cover for rotation thereof.

2,403,779
PROCESS FOR TREATMENT OF OLEFIN-CONTAINING MIXTURES
Grant C. Bailey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 30, 1941, Serial No. 417,207
4 Claims. (Cl. 260—683.15)



1. In a process for the selective polymerization of tertiary-base olefins which are associated with nontertiary-base olefins, the improvement which comprises subjecting a liquid hydrocarbon mixture which contains such olefins to the polymerizing action of a tin tetrahalide associated with a ketone in which there is an alpha carbon which has a single hydrogen to polymerize only tertiary-base olefins, and recovering from said polymerization a hydrocarbon mixture which contains unreacted nontertiary-base olefins and is substantially free from tertiary-base olefins.

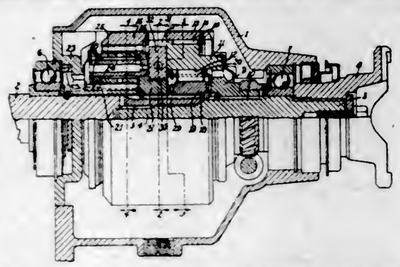
2,403,780
MOLD FOR MOLDING EXTENSIBLE ARTICLES
Nicholas Barbieri, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application March 16, 1944, Serial No. 526,779
1 Claim. (Cl. 18—42)



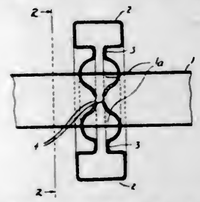
A mold comprising a pair of dies with faces in contact with each other, each face having a series of recesses, the dividing walls of the two series of recesses being out of alignment with each other, a removable strip of ribbon-like form, rectangular in cross section and having a smooth unbroken surface extending between said dies separating the mid portions of said recesses and leaving the end portions of one recess opening into the end portions of two adjacent recesses in the face of the opposite die and the two series of recesses being so shaped and disposed as to form together with said strip a continuous substantially flattened helical path in said pair of dies.

2,403,781
OVERDRIVE TRANSMISSION
William B. Barnes, Muncie, Ind., assignor to Barnes Motor Developments Company, Muncie, Ind., a partnership
Application October 24, 1940, Serial No. 362,497
32 Claims. (Cl. 74—260)

1. The combination, with a driving shaft and a driven shaft, of a planetary gearing for driving said driven shaft at a different speed than that of the driving shaft and including a stationary sun gear and a ring gear having a clutch member drivingly associated therewith, and a centrifugally operated clutch having one member drivingly associated with the driving shaft and another member drivingly associated with the driven shaft, one of said members in one position directly connecting said driving and driven shafts to establish a direct drive between said shafts and in another position engaging said ring gear clutch member to connect said ring gear to said driven shaft and establish a drive for said driven shaft through said gearing.



2,403,782
RESONATOR FOR DISCHARGE TUBES
Alan Dower Blumlein, Ealing, London W. 5, England; Doreen Blumlein, executor of Alan Dower Blumlein, deceased, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application June 13, 1942, Serial No. 446,974
In Great Britain September 23, 1940
1 Claim. (Cl. 315—5)

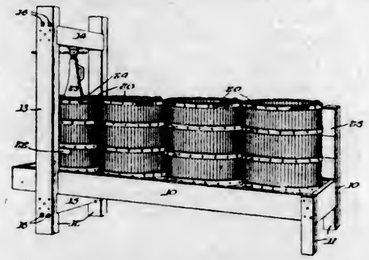


An electron discharge device having an elongated envelope, a cavity resonator extending through and transverse of the envelope and having an axis of rotation coaxial with the axis of said envelope, the transverse section of said resonator comprising a central hour-glass shaped portion surrounded by a cylindrical shaped portion, the hour-glass and cylindrically shaped portions communicating with each other through a radially directed passageway, the walls of the envelope extending between the inner walls of the hour-glass shaped portion of the cavity resonator intermediate its smaller portions.

2,403,783
COATED NAIL
Willis E. Boak, Burton, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application February 3, 1944, Serial No. 520,929
1 Claim. (Cl. 117—132)

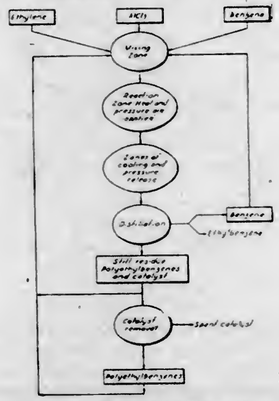
A metal fastening of the type that is hammered into wood and frictionally retained therein, having a coating consisting by weight of about 86 parts Cumar of CX grade. 155 parts gilsonite, 2 to 8 parts plasticizing oil, 125 parts asbestine and 75 to 90 parts red oxide of iron.

2,403,784
HONEY PRESS
Reginald D. Bradshaw, Wendell, Idaho, assignor to R. D. Bradshaw & Sons, Wendell, Idaho, a copartnership
Application June 11, 1943, Serial No. 490,396
1 Claim. (Cl. 100—50)



A press of the class specified comprising an inclined draining table in the form of a shallow pan having draining means at its lower end and elevated sliding ribs on its top surface to facilitate the sliding of a press container thereon; a press frame arranged over and around the upper end of said table; and a pressing jack cooperating with said frame to compress material in a container resting on said table.

2,403,785
ALKYLATION METHOD
Edgar C. Britton and John C. Vander Weele, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application October 7, 1943, Serial No. 505,352
16 Claims. (Cl. 260—671)



1. In a method of alkylating an aromatic compound having the general formula:



wherein X and Y each represents a member of the group consisting of hydrogen, halogens and alkyl radicals, the steps of forming a liquefied mixture of the aromatic compound, a normally gaseous olefine and aluminum chloride in amount not exceeding 0.007 of the molecular equivalent of the aromatic compound, and heating the mixture at a reaction temperature above 90° C. under a pressure sufficient to maintain it in liquefied form.

2,403,786
METHOD OF MAKING COMPOSITE BANDS
Neil M. Campbell, Buffalo, N. Y., assignor to American Allsafe Company, Inc., Buffalo, N. Y., a corporation of New York
Application December 20, 1944, Serial No. 569,077
6 Claims. (Cl. 2—243)



1. The method of making composite bands from tape lengths of different materials, which consists in guiding a group of tapes of each material in parallel relation, applying attaching strips transversely of the groups of tapes at predetermined spaced points lengthwise thereof to maintain the tapes in parallel alinement, and cutting the tapes transversely and substantially centrally of each attaching strip to separate the same into group-units.

2,403,787
GRATE
Charles V. Carroll, Minneapolis, Minn., assignor to Wm. Bros. Boiler & Manufacturing Co., Minneapolis, Minn., a corporation of Minnesota
Application August 7, 1944, Serial No. 548,398
9 Claims. (Cl. 126—163)

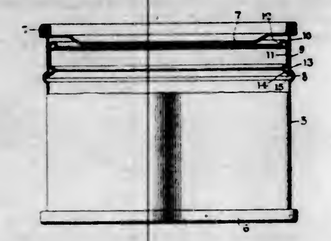


1. A grate bar having a head portion composed of top and bottom surfaces and parallel flat side surfaces forming the extreme lateral surfaces of the bar, said surfaces being spaced apart a distance at least equal to the width dimension of the bar, the edges at the junction of the top and side surfaces being inwardly notched at evenly spaced intervals along each side, air-passage grooves in said sides, said grooves extending only part way up the side from the bottom of the side surfaces, each said air-passage groove being located in the side surface spaces between the notches, and a downwardly extending support below said head portion.

2,403,788
COLLAR CAN COLLAR MOUNTING
John Coyle, Baltimore, Md., and William F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 7, 1944, Serial No. 543,858
1 Claim. (Cl. 220—54)

In a sheet metal container, a body portion, an upper end closure seamed onto the body portion, said body portion having an outwardly directed bead adjacent its upper end, the body portion between said bead and the closure being scored to provide a tear strip, and a collar snugly fitting the body and having a main body portion lying opposite and extending above and below the tear strip and a lower end portion bent inwardly of the main body portion of the collar and then outwardly to present a raw metal end extremity as an anchor housed in said bead, the juncture

of said inwardly and outwardly bent portions being well rounded and spaced a considerable distance inwardly of the internal diameter of the



collar main body portion to provide a protective shoulder effective to guard said raw metal edge extremity against contact by a hand of a user of the container.

2,403,789
METHOD OF PURIFYING CAUSTIC ALKALI SOLUTION
Claude A. Cummins, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 2, 1943, Serial No. 489,387
6 Claims. (Cl. 23—184)

2. In a method of treating a chlorate-containing aqueous caustic alkali solution of from 30 to 60 per cent concentration to remove the chlorate, the steps of contacting the solution with finely divided iron and destroying the chlorate by heating the solution together with the finely divided iron at a temperature between 70° C. and the boiling temperature, thereafter filtering the mixture, introducing into the resultant solution, which is of greenish color and is enriched in iron compounds, while the solution is at a temperature below 30° C., an agent selected from the class consisting of chlorine and soluble hypochlorites, said agent being employed in approximately the amount required to render the solution substantially colorless, and removing the iron-containing substance which is thereby precipitated.

2,403,790
METHOD OF PREPARING A DIAZINE DERIVATIVE
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application September 1, 1942, Serial No. 456,929
1 Claim. (Cl. 260—251)

The method of preparing beta,beta'-bis-(4,6-diamino pyrimidyl-2 thio) diethyl ether which comprises adding di-(beta-chloroethyl) ether to a clear solution obtained by mixing together approximately equal molar ratios of 2-mercapto 4,6-diamino pyrimidine and sodium hydroxide dissolved in a mixture of water and alcohol, the molar amount of di-(beta-chloroethyl) ether being approximately one-half that of the molar amount of 2-mercapto 4,6-diamino pyrimidine, heating the resulting mixture under reflux at the boiling temperature of the mass for a period of the order of 7 hours, filtering off the precipitate comprising beta,beta'-bis-(4,6-diamino pyrimidyl-2 thio) diethyl ether that separates upon cooling the mass, washing the said precipitate with water to remove soluble salts, and drying the washed material.

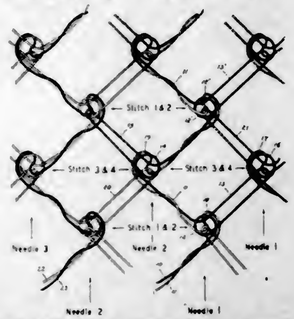
2,403,791
INTERPOLYMERS OF A METHYLENE MALONIC ESTER AND AN UNSATURATED ALKYD RESIN
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Original application November 16, 1939, Serial No. 304,783, now Patent No. 2,330,033, dated September 21, 1943. Divided and this application April 30, 1943, Serial No. 485,178
17 Claims. (Cl. 260—42)

2. A composition comprising an interpolymer of ingredients including a methylene malonic ester and an unsaturated alkyd resin, said materials being copolymerizable.

2,403,792
DI-PHOSPHORUS ESTERS AND PROCESS OF MANUFACTURING
Ernest F. Engelke, Merchantville, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
No Drawing. Application March 28, 1942, Serial No. 436,623
6 Claims. (Cl. 260—461)

5. A di-phosphorus ester having the formula $(RO)_2P—P(OR)_2$ in which R is a radical selected from the group consisting of alkyl, aryl and alkaryl radicals.

2,403,793
KNITTED FABRIC
Louis N. Feinstein, Brooklyn, N. Y., assignor to Sam Feinstein, Rebecca Feinstein, and Louis N. Feinstein, doing business as Feinstein Knitting Mills, New York, N. Y.
Application October 27, 1944, Serial No. 560,528
5 Claims. (Cl. 66—195)

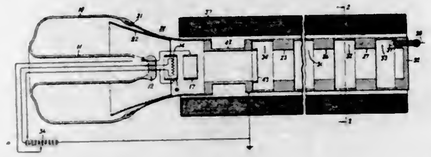


1. A knitted fabric comprising front and back threads characterized by a uniform pattern of diamond shaped openings, consisting of said front and back threads, each front thread formed into a series of loops extending alternately at opposite sides and interlocked with a series of knitted loops on the opposite sides thereof, each back thread being alternately knitted and laid-in and interlocking a series of loops.

2,403,794
VISIBLE LIGHT TRANSPARENT PLASTIC
Richard M. Goldrick, Arlington, and Barnard M. Marks, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 19, 1943, Serial No. 510,916
9 Claims. (Cl. 260—41)

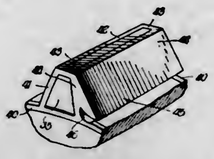
8. A visible light transparent plastic comprising polymeric methyl methacrylate and, in compatible admixture therewith, an inorganic salt from the group consisting of thorium nitrate, bismuth nitrate and bismuth trichloride, said inorganic salt being present in the plastic in an amount sufficient to substantially reduce its ability to transmit X-ray radiations.

2,403,795
HIGH-FREQUENCY APPARATUS
William C. Hahn, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1941, Serial No. 390,527
11 Claims. (Cl. 315—6)



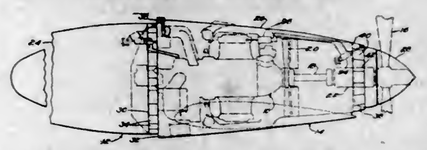
1. In combination, an elongated hollow conductive structure, a succession of discontinuities within the structure subdividing the enclosed space into a series of space-resonant sections which are individually resonant at a common frequency, all the bounding surfaces of the various sections being electrically interconnected by low resistance paths and there being a passageway extending longitudinally of the structure for spatially interconnecting the sections, and means for projecting charges through the said passageway to produce energy conversion effects by mutual reaction of the said charges and the said resonant sections.

2,403,796
GEAR PUMP
John C. Hanna, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a corporation of Illinois
Application May 15, 1943, Serial No. 487,076
7 Claims. (Cl. 103—126)



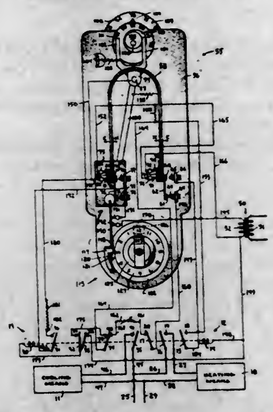
1. In a gear pump, a housing, a driving shaft and a follower shaft journalled by the housing in spaced parallel relation, a pumping gear fixed to each shaft, said gears having meshing relation whereby the teeth of said gears have contact as they approach, pass through, and leave the plane of said shafts, a compartment provided by the housing adapted to receive said gears, an inlet to said compartment on one side of the plane of contact, an outlet for said compartment on the opposite side of said plane of contact, and resilient material on the teeth of each pumping gear whereby said teeth consist partly of rigid material and partly of resilient material, said material being located at the edges only of each tooth on the leading side thereof and extending to completely cover the follower side of each tooth from edge to edge and from top to bottom thereof.

2,403,797
ENGINE COWLING
Donald S. Hersey, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 31, 1940, Serial No. 337,955
10 Claims. (Cl. 123—171)



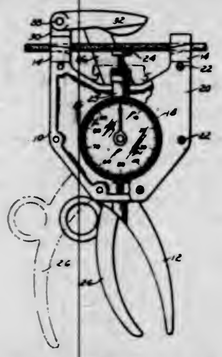
1. In combination, a streamlined enclosure surrounding a heat radiator and having an air entrance opening and an air exit opening, means for maintaining the drag of said enclosure at a minimum and regulating the quantity of air flowing past said heat radiating surfaces comprising, adjustable means at said air entrance opening for varying the area thereof, adjustable means at said air exit opening for varying the area thereof, means responsive to the difference in velocity of the air flowing along the outside of said enclosure near said air entrance opening and the air flowing through said air entrance opening operatively associated with said entrance opening varying means to maintain said velocity difference below a predetermined value, and a device controlled by an operating condition of the heat radiator and operatively associated with said exit opening varying means to limit the quantity of air passing through said enclosure to the cooling requirements of said heat radiating surfaces.

2,403,798
SUMMER-WINTER CONTROL INSTRUMENT
Gifford I. Holmes, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 4, 1942, Serial No. 441,648
13 Claims. (Cl. 257—3)



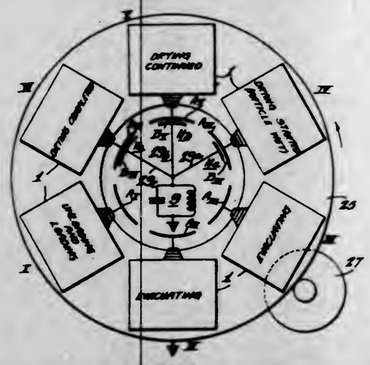
1. A heating and cooling system comprising, in combination, heating means, cooling means, first control means for said heating means, second control means for said cooling means, a movable condition responsive means, and a plurality of abutment means for said condition responsive means, said condition responsive means acting upon a first and second of said abutment means to operate said first control means, and upon said second and a third of said abutment means to operate said second control means.

2,403,799
TENSIOMETER
George E. Holton, Carl E. Heglund, and James V. Manson, Jackson, Mich., assignors to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich., a corporation of Michigan
Application April 28, 1945, Serial No. 590,768
3 Claims. (Cl. 73—144)



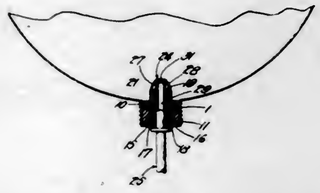
3. A tensiometer comprising, in combination, a frame exhibiting a pair of spaced apart cable seats adapted to receive a cable section extending therebetween, cable deflecting means carried by said frame having a part normally urged under substantially constant pressure against a cable section extending between said seats, a gauge carried by said frame having a spring urged plunger adapted to bear against the cable section extending between said seats and transmit to the gauge the extent of deflection of the cable section, means yieldingly urged into engagement with said plunger to lock the same in any adjusted position regardless of the removal of the cable section from said seats, and means normally holding said last means out of engagement with the plunger but manualy operable to release the same for engagement therewith.

2,403,800
METHOD OF AND APPARATUS FOR DRYING MOISTURE LADEN ARTICLES
Cyril N. Hoyler, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1941, Serial No. 425,170
18 Claims. (Cl. 34—1)



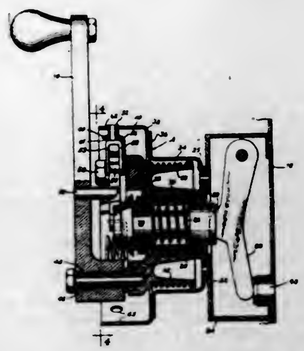
1. In apparatus for drying moisture-laden articles, the combination of means providing a plurality of drying stations, means for supplying heating energy to each of said stations for drying the articles, variably effective means for controlling the energy supplied to said stations by said second named means, and means for bringing said variably effective means successively into cooperative relation with each of said stations whereby to control the energy delivered at said stations.

2,403,801
BALLOON VALVE
Langley W. Isom, Belmont, and Emile E. Habib, Arlington, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application April 27, 1943, Serial No. 484,740
2 Claims. (Cl. 251—115)



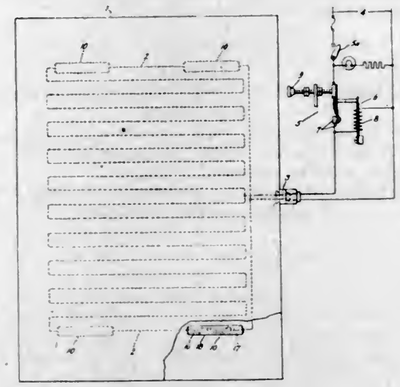
2. A valve for inflating balloons comprising a ring having wedging projections on its inner wall, a plug having an axial bore adapted to be inserted in the ring and bearing cooperating wedging surfaces on its outer walls, and a resilient valve flap stretched over one end of said bore and having its ends secured between the wedging projections of the ring and the wedging surfaces of the plug, thereby maintaining said flap under tension to normally close the axial bore of said plug.

2,403,802
REVERSIBLE OPERATING MECHANISM
Eugene Katzberg, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 29, 1944, Serial No. 570,362
12 Claims. (Cl. 192—8)



1. In an operating and locking mechanism, a support, an operating member mounted for movement on said support, a locking detent carried by said operating member, a cooperating keeper carried by said support, and actuating means for said operating member including an actuating member having a lost motion connection with said operating member and a pair of cam members supported on said operating member on pivots located on opposite sides of said actuating member and movable about their pivots by opposite movements of said actuating member, said cam members having cam surfaces cooperating with said detent for moving the latter into and out of locking engagement with said keeper upon movement of said actuating member relative to said operating member.

2,403,803
ELECTRIC BLANKET
William K. Kearsley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 21, 1944, Serial No. 555,067
1 Claim. (Cl. 219—46)

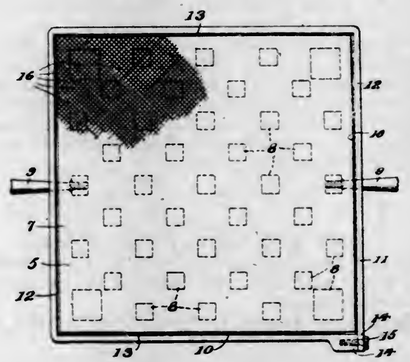


In an electric blanket, a heating circuit in the blanket, temperature responsive means normally controlling the energy input to said heating circuit in response to variations in air temperature of the bedroom in which the blanket is placed so that a substantially uniform temperature is held in said blanket irrespective of said variations in air temperature, and safety means for preventing the occurrence of an abnormally high and dangerous temperature condition in a section of said blanket comprising a thermostatic switch located in said blanket in heat conducting relation with said section and connected in said heating circuit, said switch normally being closed to complete said heating circuit through said section when the temperature in said section is a normal one obtained by the operation of said temperature responsive means, and said switch operating to open in response to an over-heating temperature in said section, a local resistance heater in thermal relation with said thermostatic switch controlled thereby so as to be deenergized when the switch is closed and so as to be connected in said heating circuit when said switch opens responsively to said over-heating temperature whereby it is energized and applies localized heat to said thermostatic switch to maintain it open, and said resistance heater having such resistance that when it is connected in said heating circuit it cuts down the energy input thereto materially below that normally supplied when under the control of said temperature responsive means thereby protecting the blanket against an excessively high temperature condition and further having such resistance that it itself will not generate sufficiently high local heat to heat the adjacent sections of said blanket to an excessively high temperature.

2,403,804
DI-P-ISOBUTYL SEBACATE
George Kesslin, New York, and Leonard Nicholl, Nyack, N. Y., assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., a corporation of New York
No Drawing. Application December 2, 1943, Serial No. 512,638
3 Claims. (Cl. 260—485)

2. The method of preparing di-p-isobutyl sebacate, comprising esterifying p-isobutyl alcohol and sebacic acid in the presence of sulphuric acid as a catalyst, the p-isobutyl alcohol being in substantial excess, heating to 99° C. to complete the reaction and form a constant boiling mixture of p-isobutyl alcohol and water and distilling off same during the course of the reaction, leaving the newly formed di-p-isobutyl sebacate dissolved in anhydrous residual primary isobutyl alcohol, neutralizing the reaction mixture with anhydrous sodium carbonate, then distilling under low vacuum to remove residual primary isobutyl alcohol followed by distillation at high vacuum to secure pure di-p-isobutyl sebacate.

2,403,805
METALWORKING
Michael Joseph Kulla, Cleveland, Ohio
Application January 18, 1944, Serial No. 518,732
4 Claims. (Cl. 51—212)



1. In a construction of the class described, a pair of oppositely disposed lapping and surfacing plates connected together and each having a work face for receiving a work compound and for treating a work-piece operated thereover, each of said plates having side faces provided with tapered portions adjacent the work face, means extending around the side faces of at least one of said plates and coacting with the tapered portions thereof to define a sump about said last mentioned plate for receiving compound discharged therefrom by the operation of a work-piece thereover.

2,403,806
SEA STOP
Jesse D. Langdon, Downey, Calif.
Application January 9, 1942, Serial No. 426,148
3 Claims. (Cl. 114—68)

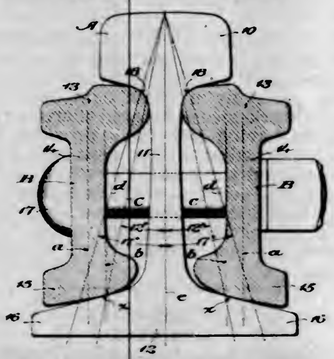
2. In a device of the character described, the combinational structure comprising a casing; an inflatable bag enclosed in said casing; a cover for the casing arranged to be displaced by said inflatable bag relative to said casing, said cover being perforated; tank means for containing gas under pressure; conduit means interconnecting said inflatable bag and said tank means; and

valve means controlling the flow of gas from said tank means to the interior of said inflatable bag; said valve means including a hollow body having a side formed of material arranged to be displaced in the presence of water, said valve means further comprising a pointed element supported by said water-displaceable side, said valve means further comprising an element normally obstructing communication of said conduit means



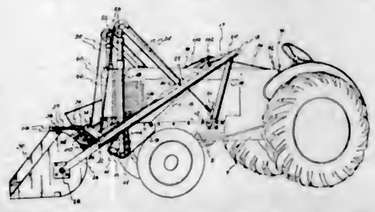
with the interior of said tank means, said element being disposed within the range of movement of said pointed element, whereby under the condition of presence of water exteriorly of said casing means and flowing through said perforations, such pointed element is actuated by said water displaceable side of the valve body, thereby puncturing said normally obstructing element and releasing the compressed gas from said tank means, and thus inflating said bag.

2,403,807
RAIL AND JOINT STRUCTURE
Horace L. Lansing, Rutherford, N. J., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application August 8, 1942, Serial No. 454,169
2 Claims. (Cl. 238—243)



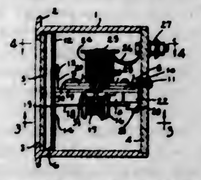
1. A rail joint structure comprising vignoles rails and a splice bar, including a head, a web and a base, having loading engagement at its head with head portions of the rails and at the under side of its base with the upper faces of the base flanges of the rails, the under face of the base of said bar being initially convexly curved transversely to a contour to have initial line contact with the rail flanges between vertical planes including the inner face and the center of the web of the bar, respectively, and between downwardly and outwardly diverging planes which intersect the central vertical plane of the rails at the tops of the latter and which are disposed at angles to said central vertical plane of the rails of not less than 12° and not more than 17°, respectively, thereby to insure that initial and subsequent wear-developed contact between the base of the bar and the rail flanges shall occur within limits transversely of the base of the bar and the rail flanges where stress concentration is least disadvantageous, the said under face of the base of said bar from its portion in contact with the rail flanges constantly receding upwardly and outwardly with reference to the upper faces of said rail flanges to insure against development by wear of any shoulders in the upper faces of the rail flanges which might interfere with inward adjustment of the bottom portion of the bar relative to the rails.

2,403,808
POWER-OPERATED EQUIPMENT FOR TRACTORS
James F. Laughead, Ottawa, Kans., assignor to Ottawa Steel Products, Incorporated, Ottawa, Kans., a corporation of Kansas
Application July 7, 1944, Serial No. 543,887
4 Claims. (Cl. 214—140)



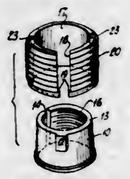
1. Apparatus for power shovels and the like comprising, in combination with a tractor body, a supplemental frame for attachment to the front end of said tractor body, stationary posts secured to said frame at the sides of said body, shovel-carrying arms fulcrumed upon the upper ends of said posts and provided with cables attached to the free ends of said arms and also to the lower ends of said posts, hydraulic cylinders pivotally supported at the front end of said frame and provided with plunger rods carrying pulleys engaging said cables, bracing and supporting means connecting said plunger rods with said shovel-carrying arms, a shovel pivotally supported by the free ends of said arms, and valve-controlled hydraulic connections to the lower ends of said cylinders.

2,403,809
FREQUENCY METER
Frederick J. Lingel, Bluffton, Ohio, assignor to Ray L. Triplett, Bluffton, Ohio
Application August 22, 1941, Serial No. 407,993
10 Claims. (Cl. 172—245)



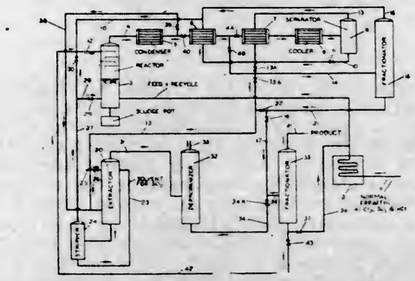
1. A frequency meter comprising a plurality of metal reeds having different vibratory periods, one end of each reed being fixed and the other end being free to vibrate, a solenoid with an air core surrounding said reeds and adapted to receive alternating current the frequency of which is to be determined, and a pair of magnets spaced from one another to leave an air gap, said magnets having a C-shape and positioned reversely with respect to one another in a plane parallel and closely adjacent to the plane of the reeds.

2,403,810
INSERT
Francis Le Barron Lord, Bloomfield, N. J., assignor to Titelox Manufacturing Company, Montclair, N. J., a corporation of New Jersey
Application July 24, 1945, Serial No. 606,777
3 Claims. (Cl. 85—32)



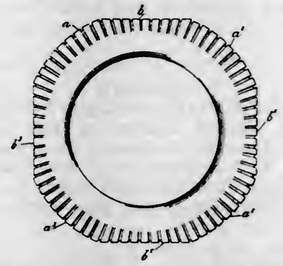
1. An insert comprising an externally threaded member for threaded engagement with a threaded aperture, said member being provided with an axial slit and having an internal tapered aperture, and an internal member externally complementarily tapered and adapted to be inserted into said first named member, said internal member being internally threaded for engagement by a threaded member and being provided with an axial slit and with an external key adapted to be received in the slit of said first mentioned member to key the internal member therein for axial reciprocation therein, said key being so disposed relative to the slit of the internal member as to provide a predetermined wrapping effect when the parts are assembled and engage a threaded member, and stop ledges projecting into and partly closing the slit of the external member to preclude accidental displacement of the key therefrom.

2,403,811
ISOMERIZATION OF HYDROCARBONS
John W. Loy, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 5, 1942, Serial No. 460,798
1 Claim. (Cl. 260—683.5)



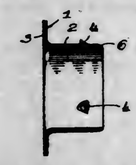
A process for the isomerization of normal butane to produce isobutane which comprises subjecting a reaction mixture comprising hydrogen chloride, liquid normal butane, and a solution of aluminum chloride in liquid sulfur dioxide, to conditions of temperature and pressure such as to isomerize normal butane to isobutane and such as to evolve vapors of sulfur dioxide and iso- and normal butane in azeotropic proportions together with vapors of hydrogen chloride and of aluminum chloride, passing said vapors upwardly in contact with a liquid sulfur dioxide reflux obtained as hereinafter described to effect complete solution of said aluminum chloride vapors therein, flowing said reflux containing dissolved aluminum chloride downwardly into said reaction mixture, condensing and cooling resulting aluminum chloride-free vapors to form two liquid layers, namely a sulfur dioxide-rich layer and a butane-rich layer, returning said sulfur dioxide-rich layer as said reflux to contact with said vapors, fractionally distilling said butane-rich layer to recover most of the hydrogen chloride and sulfur dioxide therefrom as an overhead fraction and to recover isobutane and normal butane as a higher-boiling fraction, returning said overhead fraction to said reaction mixture, subjecting said higher-boiling fraction to extraction with a solvent selective for hydrogen chloride and sulfur dioxide to remove therefrom residual hydrogen chloride and sulfur dioxide, stripping resulting rich solvent to recover hydrogen chloride and sulfur dioxide and returning same to said reaction mixture, and recovering isobutane from the thus-extracted higher-boiling fraction.

2,403,812
ANTISKID TREAD
Claude Ronald MacCallum, Glasgow C. 1, Scotland
Application May 7, 1942, Serial No. 442,089
In Great Britain March 14, 1940
8 Claims. (Cl. 152—209)



8. For a wheel a tire having curved peripheral sections and flat sections, each of which lies at right angles to a line extending radially from the centre of the tire and passing through such section midway between its ends, the two ends of each flat section intercepting the said curved peripheral sections.

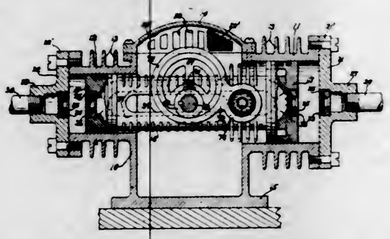
2,403,813
BUSHING FOR POLISHING WHEELS
James J. Manderscheid, Chicago, Ill.
Application July 24, 1944, Serial No. 546,425
6 Claims. (Cl. 51—168)



1. A bushing adapted to be pressed into and automatically locked in a centrally disposed open-

ing in a preformed polishing wheel, consisting of a member formed of relatively thin gauge metal and provided with a peripheral flange and a hub portion, the latter adapted to be pressed into the opening and anchoring projections formed from the material of the hub and adapted to embed in the material of the wheel as the bushing is pressed into the opening.

2,403,814
COMPRESSOR
Pietro Maniscalco, Chicago, Ill.
Application February 17, 1942, Serial No. 431,203
5 Claims. (Cl. 230—182)



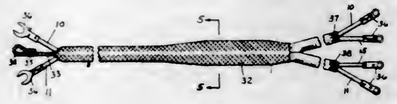
1. In a multistage compressor of the character disclosed and which has a crank casing, alined low and high pressure cylinders at the ends of the casing, low and high pressure pistons operative in said cylinders, a tubular connecting rod between said pistons, and crank means operatively connected to the connecting rod to reciprocate said rod and said pistons as a unit, said pistons having valved passages for controlling passage of fluid between the cylinders and the rod, said rod having heat radiating fins extending outwardly from said rod and movable therewith.

2,403,815
METHOD OF MAKING CORDS
Samuel M. Martin, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 16, 1944, Serial No. 540,694
2 Claims. (Cl. 154—2.22)



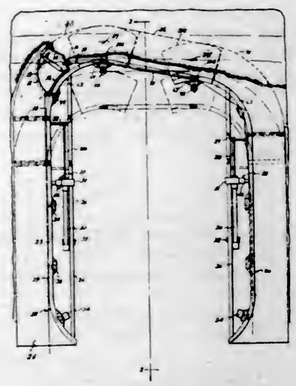
1. The method of forming a Y-type insulated cord from a cord having a rubber jacket enclosing an end portion of each of a pair of individually insulated conductors and a stay cord, said enclosed portion of the cord forming a stem of a Y and the other portions of the conductors forming the arms of the Y, which comprises bending a third individually insulated conductor into the shape of a V with the end portions of the conductor forming the arms of the V, placing the arms of the V parallel to the arms of a Y formed by such a cord, placing a preformed tube of insulating material over an arm of the Y and the arm of the V adjacent thereto, placing a second preformed tube of insulating material over the other arm of the Y and the arm of the V adjacent thereto, and covering the crotch of the cord thus formed with an insulating material whereby the arms and the stem of the cord are secured together.

2,403,816
CORD AND METHOD OF MAKING CORD
Samuel M. Martin, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 16, 1944, Serial No. 540,695
6 Claims. (Cl. 174—113)



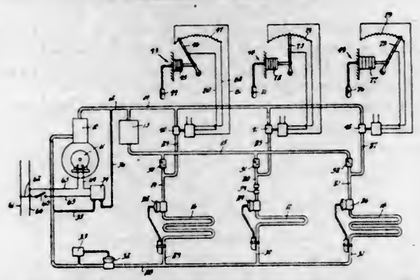
1. A Y-type cord, which comprises an insulated conductor doubled back upon itself, a second insulated conductor extending along one of the doubled-back portions of the first-mentioned conductor, a third insulated conductor extending along the other of the doubled-back portions of the first-mentioned conductor, a preformed tube of weatherproofing material surrounding the second conductor and the portion of the first-mentioned conductor extending therealong, a second preformed tube of weatherproofing material surrounding the third conductor and the portion of the first-mentioned conductor extending therealong, and means for securing the tubes together at points intermediate of the ends thereof.

2,403,817
SCRAPER LOADER APPARATUS
Timothy F. McCarthy, Indiana, Pa.
Application February 15, 1945, Serial No. 577,971
9 Claims. (Cl. 37—115)



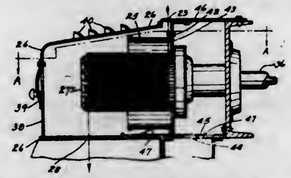
1. In a head frame for guiding a scraper to pick up loose material from the working face of a mine, a guide frame adapted to extend along one rib of the working place, a bottom pan extending outwardly from said guide frame and forming a supporting roadway for the scraper, to carry said scraper over an uneven mine bottom, a stationary jack adapted to be interposed between the ground and the mine roof for holding said guide frame in position during loading, and means mounted on said jack for elevating said guide frame and bottom pan to place said bottom pan on top of a roll on the mine bottom, to guide the scraper to move in a plane disposed above said roll and load out material above said roll.

2,403,818
REFRIGERATION SYSTEM
William L. McGrath, Syracuse, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 26, 1943, Serial No. 500,043
8 Claims. (Cl. 62—3)



1. In a refrigeration system, means controlling the capacity of an evaporator comprising a thermostatic expansion valve for controlling the flow of fluid to said evaporator, means for varying the density of refrigerant supplied to said thermostatic expansion valve means, and orifice means limiting the volume of said variable density refrigerant supplied to said expansion valve.

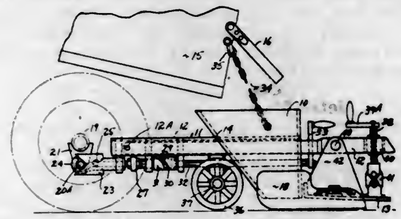
2,403,819
APPARATUS FOR TREATING THREAD AND THE LIKE
Kenneth M. McLellan, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 30, 1944, Serial No. 542,964
6 Claims. (Cl. 34—153)



1. Apparatus for the processing of thread comprising a thread-advancing, thread-store device which continuously but temporarily stores thread and advances it lengthwise thereof in a plurality of generally helical turns; an enclosure for said thread-store device; an opening in said enclosure for admitting thread to said thread-store device; means for performing a processing step on the thread giving rise to vapor; inlet means in said enclosure independent of said opening for admitting air into the interior of said enclosure; outlet means in said enclosure for exhausting air from said enclosure; and means disposed within said enclosure and circumferentially spaced about the thread-store device, said means being adapted to direct the flow of air from said inlet means over the periphery of said thread store device and to said outlet means thereby withdrawing said vapor from the vicinity of said thread-store device.

2,403,820
SPREADER BOX
William J. Miller, Youngstown, Ohio, assignor to The City Asphalt and Paving Company, Youngstown, Ohio, a corporation of Ohio
Application July 31, 1944, Serial No. 547,438
5 Claims. (Cl. 94—44)

1. A spreader box comprising a frame having a hopper positioned on one end thereof and adapted for reception and delivery of material to be spread, means on the other end of said frame for attachment to a truck, wheels midway beneath said frame, a secondary frame pivotally affixed at one end to said frame adjacent the said attachment means, and means on the other end

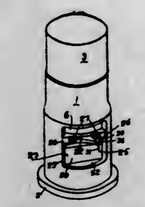


of the said secondary frame, adjacent the said hopper, for engaging the material being spread so as to smooth and partially compact the same, means on said secondary frame for varying the position of the said material engaging means with respect thereto.

2,403,821
POLISHING CLOTH
John D. Morgan, South Orange, and Russell E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
No Drawing. Application January 26, 1945, Serial No. 574,832
9 Claims. (Cl. 51—294)

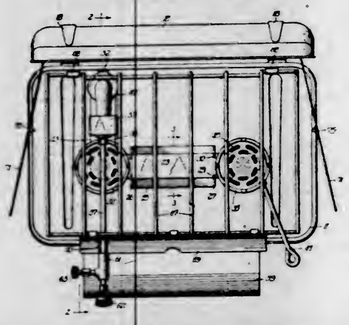
1. A cloth for cleaning and polishing metal surfaces comprising a soft and absorbent sheet impregnated with a polishing mixture consisting of from 5 to 10 per cent by weight of oleic acid, from 1 to 4 per cent by weight of triethanolamine, from 20 to 60 per cent by weight of magnesium oxide (light), from 15 to 45 percent by weight of precipitated calcium carbonate, and from 10 to 30 percent of infusorial earth.

2,403,822
CYLINDRICAL PRESS STRUCTURE
Johan A. Muller, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application October 24, 1940, Serial No. 362,634
35 Claims. (Cl. 100—71)



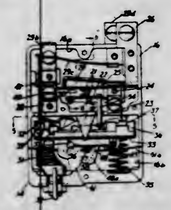
1. A press comprising in combination a press head, a press base, a cylinder integral with and interconnecting said press head and press base, and a multiple part press bed mounted in said press base and composed of a central member and means laterally connected thereto for supplementing the supporting area of said central member.

2,403,823
MANIFOLD SUPPORT
Averd Nelson and Harold H. Niemann, Wisconsin Rapids, Wis., assignors to Prentiss Wabers Products Co., Wisconsin Rapids, Wis., a corporation of Wisconsin
Application April 1, 1942, Serial No. 437,232, now Patent No. 2,373,492, dated April 10, 1945, which is a division of Serial No. 374,214, January 13, 1941, now Patent No. 2,302,880, dated November 24, 1942. Divided and this application April 7, 1944, Serial No. 529,948
1 Claim. (Cl. 126—38)



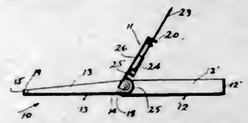
In a stove, in combination, a sheet metal support having upwardly extending arms, said arms having manifold seats formed therein with bendable portions overhanging the seats, said bendable portions being adapted to hold a manifold in place on said support.

2,403,824
CONTROL DEVICE
Heber L. Newell, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 14, 1940, Serial No. 370,187
6 Claims. (Cl. 219—20)



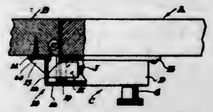
1. A control device for an electric oven provided with first and second heating elements comprising a pair of elongated flexible switch arms controlling said first and second elements respectively, means fixedly supporting corresponding ends of said switch arms, said arms being biased by their resiliency to positions to energize said elements, a thermostat constructed and arranged to operate in accordance with the temperature of said oven, a pivoted lever operated by said thermostat, a driving connection between said lever and the switch arm controlling said second element operating said switch arm to move it away from said energizing position to deenergize said second element when the temperature of said oven attains a predetermined high value, and a driving connection between said switch arms so that said other switch arm is operated away from its energizing position to deenergize said first element at a higher oven temperature and then is controlled to maintain said higher temperature, and means for adjusting the driving connection between said lever and said second element switch arm to adjust the temperature maintained in said oven.

2,403,825
DRILL CASE
Moses Daniel Nissenbaum, Brooklyn, N. Y., assignor, by mesne assignments, to General Hardware Mfg. Co., Inc., New York, N. Y., a corporation of New York
Application May 28, 1945, Serial No. 596,342
1 Claim. (Cl. 206—17)



In a drill case, a box member having a wall opening, a box cover member hinged to the box member on an axis near said opening, a drill tray positioned between the box and cover members, pivotally mounted at its lower end about said axis and a drill tray shifting member extending from the box cover member in said wall opening and terminating at a position spaced from the drill tray; said drill tray shifting member being interiorly substantially concave and housing the lower end of the drill tray and having a path of movement between the drill tray and the box member, adapted upon opening of the case by movement of the box cover member, to engage the drill tray only after the box cover member has been moved an angular distance of an obtuse angle and upon further movement of the box cover member, to swing the tray member an angular distance of an acute angle.

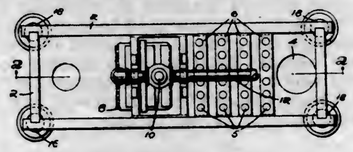
2,403,826
LATCH-ACCOMMODATING KEEPER UNIT
William J. Pinard, Manchester, N. H.
Application February 24, 1945, Serial No. 579,552
2 Claims. (Cl. 292—340)



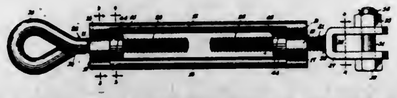
1. A keeper unit of the class described comprising a substantially rectangular hollow shell embodying a rectangular back wall, laterally disposed end walls, an outer latch bolt abutment wall adjoining the back and end walls, and a pair of flanges in alignment with each other and connected with the end and outer abutment walls, said flanges being spaced apart and opposed in parallelism to said back wall, and said back wall being provided with a right angular extension formed integral therewith, the extension constituting an attaching flange, said back wall and flange being provided with screw-accommodation holes.

2,403,827
METHOD OF AND APPARATUS FOR PRODUCING A HEAD IN RESPONSE TO THE CONSISTENCY OF PAPERMAKING STOCK
Ernest Poirier, Waterville, Maine
Application September 9, 1942, Serial No. 457,715
11 Claims. (Cl. 137—78)

1. That improvement in methods of producing a variable head in a stream of paper-making stock in response to changes in the consistency of said stock, comprising the steps of creating a flowing stream of said stock, confining a portion of the stream so produced, and creating a high degree of internal friction in said stream substantially throughout the cross-sectional area of a portion of the length of the confined portion of the stream and thereby causing the rate of flow of the stock through said area to vary inversely with said changes in consistency of the stock.

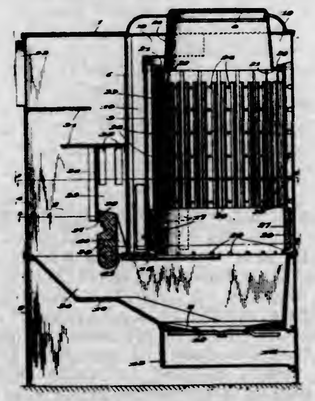


2,403,828
TURNBUCKLE
Albert W. Rawlins, Flushing, and William J. Kupec, Forest Hills, N. Y.; said Kupec assignor to said Rawlins
Application November 4, 1943, Serial No. 508,882
1 Claim. (Cl. 287—60)



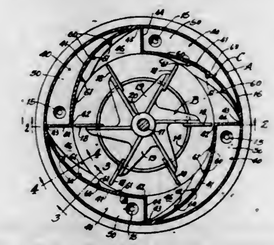
A turn-buckle body composed of two cylindrical axially-bored and internally oppositely-threaded end members which are spaced apart in axial relation to one another, cylindrical reins axially parallel with the threaded openings in said cylindrical end members and with the cylindrical surfaces of the end portions of said reins abutting on lines the cylindrical surfaces of said end members on opposite sides thereof, and welding metal united with said end members and said reins and filling the wedge-shaped spaces between the cylindrical surfaces thereof to a plane tangent with said cylindrical surfaces.

2,403,829
MAGAZINE FEED STOVE
Hugh W. Sanford and William P. Biddle, Jr., Knoxville, Tenn.; said Biddle assignor to said Sanford
Application November 29, 1941, Serial No. 421,066
28 Claims. (Cl. 110—29)



1. A process of burning bituminous coal in a stove having a fuel magazine with surrounding walls, comprising supplying a column of fuel in the fuel magazine, producing a layer of incandescence by primary combustion of the fuel in a zone adjacent the lower end portion of the fuel magazine, introducing the primary air into the magazine only above the lower end of the fuel column at the periphery thereof with a portion of said primary air introduced adjacent the zone of primary combustion, and the remainder of the primary air introduced at the periphery of the fuel column along a substantial portion of the height thereof to supply oxygen to support combustion at the periphery of the fuel column with substantially no combustion in the center of the said column of fuel at the same level, whereby before combustion takes place in the center of the fuel column the periphery of the column at this same level is burned away from the surrounding walls in a fashion that permits the fuel column as a whole to settle down into the combustion zone as the fuel therein is consumed.

2,403,830
ENTRAINMENT SEPARATOR
Claude B. Schneible, Detroit, Mich.
Application May 20, 1943, Serial No. 487,687
6 Claims. (Cl. 183—77)

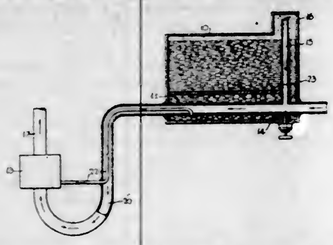


1. Apparatus for the separation of entrained matter from gases, comprising a casing having an inlet opening, a horizontal rotary fan within said casing and adapted to impart rotary motion to gases entering said inlet, baffle means within said casing and disposed radially outwardly of the periphery of said fan and capable of receiving therethrough entrained matter thrown outwardly of said fan, and a wall providing with said casing a passage of substantially uniform cross sectional area leading upwardly from the periphery of said fan for conducting from said casing the gases which pass said baffle means.

2,403,831
FUEL FEEDING AND COOLING SYSTEM
Laurence Price Sharples, Ardmore, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 26, 1942, Serial No. 459,847
6 Claims. (Cl. 158—36)

1. In a fuel feeding and cooling system for an internal combustion motor, the combination comprising a fuel storage supply tank, a pipe having two sections, a carburetor having an inlet and outlet, means for passing liquid fuel from said tank to said carburetor, one section of the said pipe being connected to said inlet and the other section connected to said outlet, the said one section of said pipe having an end adapted to communicate with the atmosphere for supplying said carburetor with air, the said other section having an end adapted to be connected to the motor for supplying thereto the said air mixed with

fuel vapor from the carburetor, the said pipe also having a substantial portion of one of said sections extending through said tank for passing the



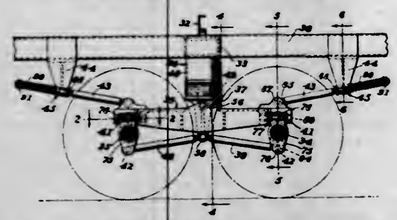
contents of said pipe through indirect heat exchange relationship to the fuel-containing space of said tank without passing said contents directly into said fuel-containing space.

2,403,832
QUICK OPENING PARACHUTE
Floyd Smith, Manchester, Conn., assignor to Pioneer Parachute Company, Inc., Manchester, Conn., a corporation of Connecticut
Application November 25, 1941, Serial No. 420,353
2 Claims. (Cl. 244—149)



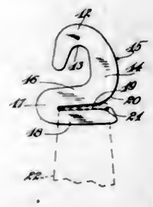
1. In combination with a parachute canopy a plurality of radially extending seams connecting adjacent gores of the material of which the canopy is formed, and means for increasing the rapidity with which said canopy expands on release of the parachute comprising two loops of material, one of which is connected to one of said seams and the other of which is connected to an oppositely located seam, said loop being positioned at points on the seams which are spaced from the skirt and the peak of the canopy on the outside thereof and releasable restricting means passed through said loops and about the canopy for momentarily restricting opening of the portion of the canopy above said means.

2,403,833
SUSPENSION AND LOAD EQUALIZING SYSTEM FOR VEHICLES
Daniel Herbert Spangler, Hamburg, Pa.
Application December 10, 1945, Serial No. 633,966
14 Claims. (Cl. 280—104.5)



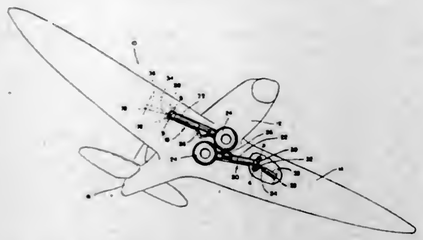
1. In a suspension and load equalizing system for vehicles, vehicle side frame members, a tandem axle unit including axle housings, a pair of brackets, means to resiliently secure said brackets for vertical movement with relation to the respective side frame members at points between the axle housings, upper and lower elements pivoted to each of said brackets at vertically spaced points and pivotally connected to said axle housings adjacent the ends of the latter to maintain the latter against rotation with respect to each other and about their axes, and means carried by the side frames to exert tension on said axle housings longitudinally of the vehicle.

2,403,834
NECKTIE SUSPENSION UNIT
Fred H. Streit, Chicago, Ill.
Application March 19, 1945, Serial No. 583,600
3 Claims. (Cl. 211—113)



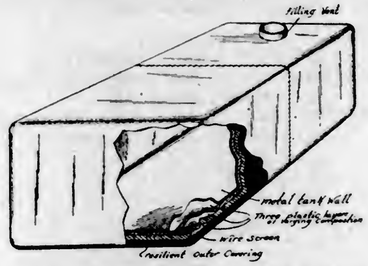
1. A unit for suspending a necktie from a rod, nail or the like comprising a top portion in the form of a hook, a downward continuation of the hook shank, and a lateral extension of the shank terminating with a return section, the latter being spaced with a narrow slot from the extension, and the slot tapering in its entrance from a width to slidingly receive the necktie to a constricted portion wedgingly lodging the same.

2,403,835
RETRACTABLE LANDING GEAR
Julius G. Villepigue, Inglewood, Calif., assignor to North American Aviation, Inc., Inglewood, Calif., a corporation of Delaware
Application December 16, 1941, Serial No. 423,161
11 Claims. (Cl. 244—102)



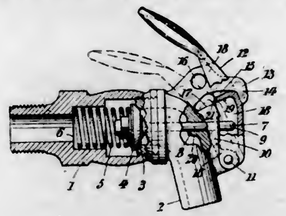
1. In an aircraft, a retractable landing gear installation comprising a pair of individual cantilever landing gear units, landing wheels carried by each said unit, individual pivot mountings for said units disposed on opposite sides of the fore and aft plane of symmetry of said aircraft on axes intersecting the plane of symmetry respectively fore and aft of the center of gravity of said aircraft and means adapted to rotate said units about the said axes for retraction of said wheels into fore and aft positions in the region of said plane of symmetry.

2,403,836
SELF-SEALING GASOLINE TANK
Hans P. Wagner, Atlanta, Ga.
Application June 10, 1941, Serial No. 397,455
5 Claims. (Cl. 154—43.5)



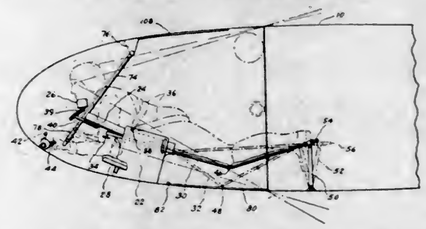
1. A self-sealing gasoline tank comprising a shell covered with at least one layer of plastic material having a composition comprising from about 50 to 80% of a zinc chloride solution having a concentration ranging from about 50 to 70% by weight, 0.5 to 2% of glacial acetic acid and 18 to 48% of an amylaceous material.

2,403,837
LOCKED FAUCET
Ronald M. Wilson, Devon, Pa., assignor to William M. Wilson's Sons, Lansdale, Pa., a firm composed of Robert G. Wilson and Ronald M. Wilson
Application September 13, 1944, Serial No. 553,845
1 Claim. (Cl. 251—163)



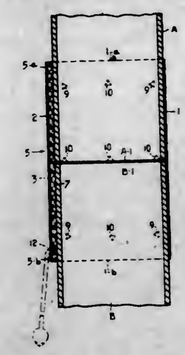
A locked faucet comprising in combination a main body having a down-turned outlet portion; a spring pressed valve and projecting valve stem, respectively coactive with a seat in said body and an aperture through the wall of said outlet portion; a lug on the faucet surrounding the projecting valve stem where it extends through the outlet portion of the faucet; an actuating lever with side flanges spaced to closely flank and lap the lug; an apertured ear forming a part of the lug to which the actuating lever is pivoted below and in position to push the valve stem inwards in opposition to the spring for opening the valve, and said apertured ear closing-in the pivotally connected end of said actuating lever; a guide projection on the faucet above the lug with extension through a corresponding slot in the actuating lever, said projection being provided at its free end with a catch limiting the throw of the lever away from the projecting end of the valve stem, and the length of the lever slot being such that no clearance is afforded thereabout when the actuating lever reaches either end thereof; an aperture through the guide projection capable of receiving the hasp of a lock to restrain movement of the actuating lever to depress the valve stem; a cross-web extending between the flanges of the actuating lever; and a raised guarding surface provided on the lug extending into close proximity to the outer end of the actuating lever cross-web whereby the projecting end of the valve stem is surroundingly closed-in and made positively inaccessible when said lever is in locked position.

2,403,838
PILOT COMPARTMENT
Charles H. Zimmerman, Nichols, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 16, 1941, Serial No. 415,159
10 Claims. (Cl. 244—122)



1. In an airplane having a pilot's compartment in which the pilot occupies a prone position, pilot supporting and airplane control means comprising, control members adjacent to the rear end of said compartment, and a pair of leg rest members connected at their rear ends respectively to said controls and at their front ends to a fixed portion of said pilot's compartment and having hinges intermediate their length located at approximately the position of the pilot's knees when the pilot is in position in said compartment.

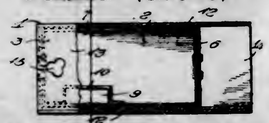
2,403,839
COUPLING
Norman W. Adolph, Grafton, Ill., assignor to Illinois Powder Manufacturing Company, St. Louis, Mo., a corporation of Illinois
Application May 19, 1943, Serial No. 487,638
1 Claim. (Cl. 285—193)



In a coupling for connecting two endwise abutting tubes of opaque material, the combination of an expansible, compressible collar adapted to embrace the abutting ends of the tubes, said collar being provided with means whereby relative rotation of the collar and tubes is prevented, comprising a plurality of inwardly turned fangs disposed on the inner surface of the collar and lying in planes parallel with the longitudinal axis of the collar, and further provided with means whereby relative axial movement of the collar and tubes is prevented, comprising a plurality of in-

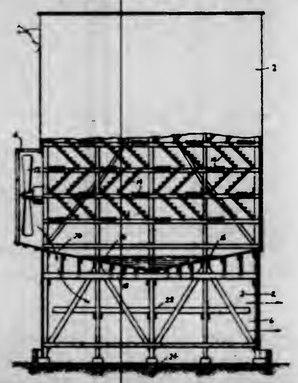
wardly turned fangs disposed on the inner surface of the collar and lying in planes parallel with the transverse axis of the collar, and further provided with means whereby the transverse axis of the collar may be positioned to coincide with the transverse plane passing between the abutting ends of the tubes, when the collar is applied to connect the tubes, comprising a plurality of inwardly turned fangs disposed on the inner surface of the collar, on the transverse axis of the collar, and lying in the plane of said transverse axis; and a locking member adapted to engage the collar to compress it and project the fangs of the said first and second means to penetrate the tubes, and the fangs of the third means to pass between the tubes.

2,403,840
QUEEN BEE SHIPPING AND INTRODUCING CAGE
Julian Ashurst, Westmoreland, Calif.
Application April 10, 1944, Serial No. 530,333
5 Claims. (Cl. 6—9)



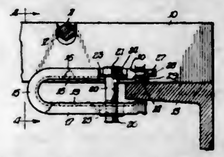
1. A bee shipping cage comprising an inner receptacle open at one side and an outer receptacle open at each end and adapted to close the open side of the inner receptacle when the latter is fitted therein, said outer receptacle being of greater length than the inner receptacle and adapted to snugly receive the same and having adjacent to one end thereof a bee insertion opening adapted to be disposed into or out of register with the open side of the inner receptacle by relative sliding movements of said receptacles.

2,403,841
FORCED DRAFT COOLING TOWER
John B. Baird, Houston, Tex., assignor to Hudson Engineering Corporation, Houston, Tex., a corporation of Texas
Application April 23, 1945, Serial No. 589,739
3 Claims. (Cl. 261—30)



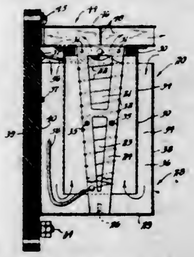
1. A cooling tower and coil shed combination including a housing, an air intake fan at one side thereof, a tower exhaust port in said housing remote from said fan, a coil shed exhaust port in said housing also remote from the said fan, a water collecting tray separating the upper cooling tower portion of said housing from the lower coil shed portion thereof, and cooling coils beneath the said collecting tray, the said tray having an opening therethrough at a point close to the said intake fan, said opening being so potioned and of such size as to by-pass a material portion of the air stream from said fan onto the subjacent coils.

2,403,842
ANCHOR FOR GRATINGS
Walter A. Bates, Joliet, Ill., assignor to Beulah H. Bates, Joliet, Ill.
Application March 3, 1944, Serial No. 524,957
13 Claims. (Cl. 189—84)



1. A grating having parallel main bars and cross bars secured together, adjacent main bars having lugs swedged therefrom at regions adjacent to the bottoms thereof and spaced from said cross bars, said lugs being presented toward each other and providing upper surfaces sloping downwardly to the region between said bars.

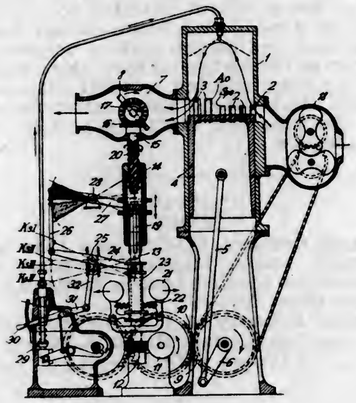
2,403,843
RESISTANCE BULB THERMOSTAT
Vilynn O. Beam, Benjamin Cyr, and John M. Wilson, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 3, 1943, Serial No. 508,839
20 Claims. (Cl. 201—63)



1. In a thermostatic device comprising a resistance element of high temperature coefficient of resistance, a frame member, the resistance element mounted on the frame member, means for guiding air in a tortuous path in heat transfer relationship with the resistance element, the resistance element being instantly and only responsive to the temperature of the air flowing through the tortuous means, and means for mounting the thermostatic device.

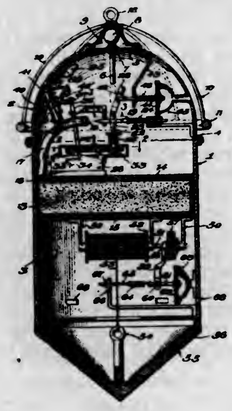
2,403,844
REGULATION OF THE SCAVENGING AND CHARGING OF TWO-STROKE FUEL INJECTION INTERNAL-COMBUSTION ENGINES
Bernhard Bolli, Arbon, Switzerland, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland
Application September 13, 1944, Serial No. 553,916
In Germany July 12, 1943
6 Claims. (Cl. 123—65)

1. Two-stroke cycle internal combustion engine comprising in combination, a working cylinder, a piston reciprocable in said cylinder, a fuel injection device, an air blower directly driven by the engine in synchronism therewith and communicating with the intake ports, an exhaust conduit communicating with the exhaust ports, an engine-driven throttle in said exhaust conduit



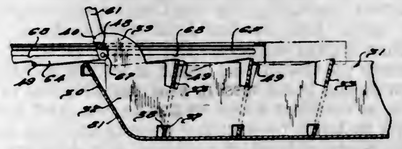
and mechanism for controlling the closing movement of said throttle in dependence upon the quantity of fuel injected and the engine speed jointly in such manner that the closing movement of said throttle is retarded, as the quantity of injected fuel drops, and is advanced as the engine speed drops.

2,403,845
SUBMARINE MINE
Aldrich M. Brown, Mobile, Ala., assignor to A. J. Holifield, Mobile, Ala.
Application September 23, 1941, Serial No. 412,023
5 Claims. (Cl. 102—17)



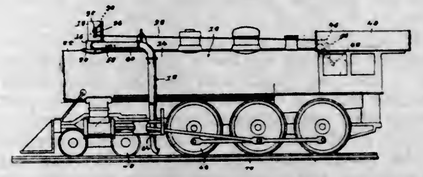
4. A submarine mine including an explosive charge, means for firing said charge, a latch for rendering the firing means inoperative, a plurality of controls for the latch including a clockwork mechanism, and means accessible from the exterior of the mine for normally rendering the clockwork mechanism inoperative.

2,403,846
ICE TRAY
Clifford R. Carney, Miami, Fla., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 31, 1938, Serial No. 237,834
4 Claims. (Cl. 62—108.5)



1. In a freezing tray, in combination: a container pan, a grid within said pan for dividing the frozen contents into ice blocks and comprising a longitudinal wall, a plurality of cross walls mounted thereon and movable longitudinally relative thereto, and operating means for moving said cross walls relative to said longitudinal wall to loosen the ice blocks from said grid, said operating means comprising a movable actuator bar arranged to be set in any one of a plurality of different starting positions prior to starting the ice-ejecting movement thereof so as to move only some of said cross walls upon subsequent movement thereof, and force-multiplying means for moving said actuator bar.

2,403,847
GRASS AND WEED DESTROYER
Daniel A. Caylor, Suspension, Ala.
Application July 26, 1943, Serial No. 496,201
1 Claim. (Cl. 126—271.3)

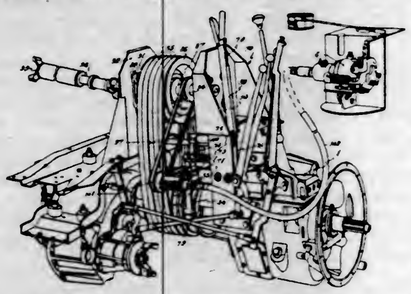


In a steam locomotive having a boiler with a smoke-box and a cab at opposite ends a vertically disposed smokestack connected to the smoke-box with an enlarged rectangular portion between its upper end and the smoke-box, a valve in the smokestack above the enlarged rectangular portion, tubes connected to the opposite sides of the enlarged rectangular portion and extending down the sides of the smoke-box, a slide valve adjacent each side wall of the rectangular enlarged portion of the stack and controlling the inlet ends of the tubes, and separate operating means leading from each of the said valves to the cab, whereby all the valves may be separately operated.

2,403,848
POWER TAKE-OFF STRUCTURE
Kibbey Whitman Couse, Newark, N. J.
Application June 28, 1945, Serial No. 602,117
13 Claims. (Cl. 74—11)

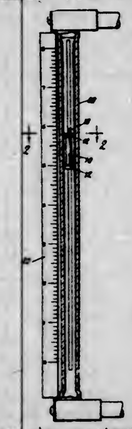
1. In a power take-off structure having a casing with its outer surface adapted to receive means for transmitting power from the casing which has bearings at each end carried in support means with a driving shaft projecting through the support means at one end of the casing toward the interior thereof and operatively carrying a member having clutch teeth and a driven shaft projecting through the support means at the other end of the casing toward

the interior thereof and operatively carrying on the end a member having clutch teeth, with a sleeve positioned between and in alignment in the said inner ends and having clutch teeth slidably meshing with the clutch teeth on said member carried by the driving shaft, a stud having one end entering the sleeve with means for operatively fastening the stud and sleeve together, the other end of the stud terminating in a toothed flange adjacent the clutch teeth of said member on the driven shaft, a spring interposed between the inner end of the stud and the driven shaft, a member fixed to the casing and having clutch teeth to be engaged by said toothed flange and means within the casing for shifting the sleeve and stud to cause said clutch teeth on the



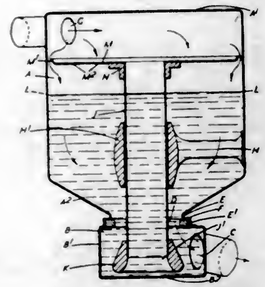
flange to engage either the clutch teeth on the member carried by the driven shaft or the clutch teeth of the member carried by the casing; said last mentioned means including shifting devices for acting on said sleeve and co-acting stud, said shifting devices comprising in part a circular member mounted on said sleeve by means fastened to the stud, said member having oppositely disposed arcuate surfaces to act as abutments, and a pair of racks and pinions positioned on opposite sides of the sleeve and stud, the pinions having pins extending into engagement with said arcuate abutment surfaces and means connected to the racks and extending outside the casing for shifting them and the sleeve and stud in at least one direction for the purpose described.

2,403,849
FLOWMETER METERING HEAD
Claude E. Cox, Detroit, Mich.
Application October 29, 1943, Serial No. 508,194
3 Claims. (Cl. 73—209)



1. A fluid flow meter metering head comprising an axial stem having similar radially projecting annular flanges of equal diameter at opposite ends adapted to form with the continuously tapered wall of a flow meter tube fluid passages varying in area throughout the length of the tube, said flanges being spaced apart axially on the stem a distance greater than a diameter, the periphery of each flange being defined adjacent to its top surface by a cylindrical peripheral face and being defined adjacent to its bottom surface by a peripheral frusto-conical face extending from the bottom surface upwardly and outwardly to the peripheral face, said cylindrical peripheral faces adapted to form slidable contact with lands spaced apart circumferentially within the tube and extending parallel to the axis of the tube.

2,403,850
TANK
Cecil Louis Cowdrey, Hitchin, and John Adrian Churchill, Luton, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application February 14, 1945, Serial No. 577,913
In Great Britain March 22, 1944
7 Claims. (Cl. 137—21)

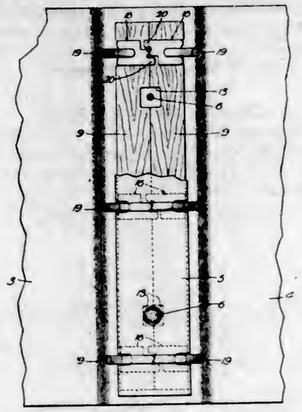


1. A tank for liquids comprising a main part which when the tank is in its normal attitude forms the upper part of the whole tank, a part which then lies below the main part of the tank and constitutes a sump, an outlet from the sump through which the contents of the tank can be withdrawn, an inlet into the main part through which liquid flows into the tank, a passage forming a communication between these two parts of the tank and through which liquid can flow directly and freely while the attitude of the tank is normal with the main part uppermost, a tubular element extending through said passage and beyond it on both sides into the main part and sump respectively, said tubular element being smaller than said passage and providing separate paths through said passage respectively inside and outside said element, and means automatically effective upon inversion of the tank for stopping the portion of the passage outside the tubular element and the liquid path therethrough.

2,403,851
LOOSE-LEAF BINDER
George H. Dawson, Chicago, and Paul O. Unger, Elmhurst, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application September 2, 1943, Serial No. 500,878
3 Claims. (Cl. 129—24)

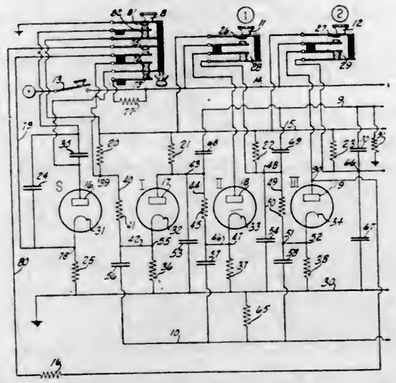
1. In a loose leaf binder, a pair of toggle plates, and a plurality of individual ring carrying plates

each secured to one of said toggle plates, each of said ring carrying plates having a finger engaging



said other toggle plate to restrain the downward vertical movement of said toggle plates.

2,403,852
ELECTRONIC DEVICE AND CONTROL MEANS THEREFOR
Joseph R. Desch, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application November 7, 1940, Serial No. 364,714
10 Claims. (Cl. 177—380)



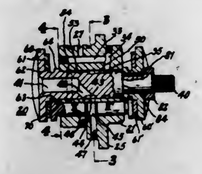
1. In combination, a plurality of cold cathode gas discharge tubes; means including a resistance connecting the anode of one tube with the cathode of another tube; common means for supplying anode-cathode potential to the tubes slightly under that necessary to cause conduction therein, said means including a resistance between each anode and the common supply means; and means to cause the cathode potential of one tube to become more negative to the point of causing conduction in said tube, said ensuing conduction causing a drop in anode potential, due to the resistance between the anode and the supply means, which drop in potential is impressed on the cathode of the tube to which the anode is connected, such cathode drop in potential in the second-mentioned tube causing conduction to commence therein, and by the same method to cause conduction in all the tubes in sequence.

2,403,853
EXTENDIBLE BEARER OR SUPPORT FOR TEMPORARY OR PERMANENT USE IN BUILDING CONSTRUCTION
Bertram William Fromson, Manchester, England
Application August 10, 1943, Serial No. 498,044
In Great Britain October 21, 1941
4 Claims. (Cl. 189—37)



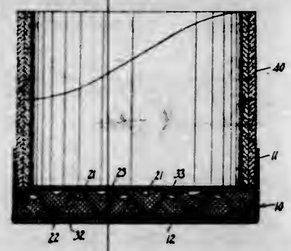
1. In a truss for use in building construction, a pair of metal members in parallel forming the top chord of the truss, a third member below the said pair of members and parallel thereto forming the bottom chord of the truss, a pair of additional members bent to form a web between said top and bottom chords, said additional members being rigidly and permanently secured to all the three first named members, a hollow socket secured to said top chord and to the web at each end of the truss, extension arms slidable in each of said hollow sockets to vary as cantiliver extensions the effective length of the truss, runners loosely mounted on said extension arms to compensate the difference in level between the top of the truss and the top of the extension arms, and means to lock each of said extension arms in the position to which it has been adjusted relatively to the length of the truss.

2,403,854
PUMP
Howard M. Geyer and Howard Carson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1944, Serial No. 566,681
10 Claims. (Cl. 103—173)



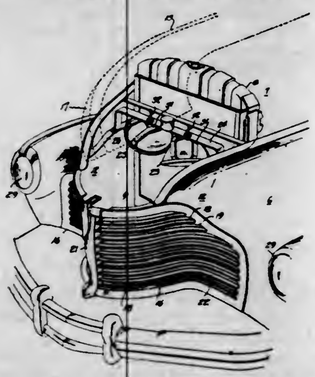
1. A fluid pump comprising a housing having a central bore and a plurality of cylindrical displacement chambers parallel to the bore and equally spaced in a circular row concentric with the bore, pistons reciprocable in the displacement chambers, displacement chamber inlet and outlet ports each connecting a displacement chamber with the bore, a rotatable shaft journalled in the bore and having inlet and outlet recesses rotatable past the ports and separated by valve lands provided by shaft surfaces closely fitting the bore, a fluid inlet duct connected with the inlet recess of the shaft, a single fluid outlet duct for all of the displacement chambers connected with the outlet recess of the shaft, and means operated by the shaft for imparting reciprocating motion to the pistons and so related to the shaft recesses that, during an intake stroke of a piston, its chamber port is connected with the inlet recess of the shaft and, during the discharge stroke of a piston, its chamber port is connected with the outlet recess of the shaft, each chamber port being completely blocked by a valve land at the end of a stroke of its associated piston.

2,403,855
CONTAINER CLOSURE AND METHOD OF CLOSING CONTAINERS
Frank Gilbert, Jr., Olmsted Falls, Ohio
Application July 10, 1942, Serial No. 450,378
4 Claims. (Cl. 229—3.1)



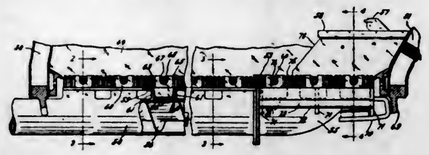
1. As an article of manufacture, a stamped paper cap comprised of an integral bottom portion and a flange portion, a reinforcing sheet of corrugated paper comprised of a central corrugated sheet and cover sheets, said reinforcing sheet being located within said cap and covering the inner surface of said bottom portion, and a solid impregnating agent substantially completely filling the voids of said reinforcing sheet and impregnating the inner surface of said cap to unite said cap and reinforcing sheet into a rigid container closure.

2,403,856
AUTOMOBILE ILLUMINATING ARRANGEMENT
Alberto Andrade González, San Francisco, Calif.
Application March 28, 1944, Serial No. 528,373
1 Claim. (Cl. 240—8.11)



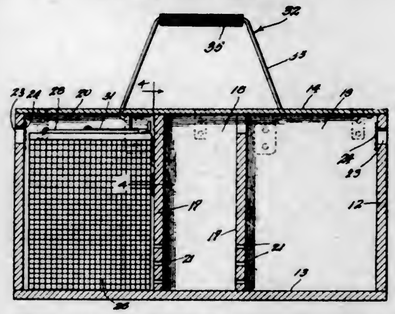
In a vehicle, said vehicle having a hood providing a compartment, a radiator forming the rear end of said compartment, a grill forming the forward end of said compartment, said grill having a plurality of horizontally arranged parallel downwardly inclined ribs, said ribs being provided with polished reflecting surfaces for reflecting light, said vehicle having headlights disposed outwardly of and located on each side of said compartment and arranged so that the light beams therefrom will be directed straight ahead of the vehicle, said compartment having sides, a frame member located within said compartment and adjacent each side and extending from said radiator forwardly toward said grill, a bracket within said compartment having its ends mounted on and connected to each frame member, and a plurality of light projectors mounted on said bracket and positioned angularly in relation to each other so as to divergently direct the rays from said light projectors upon the downwardly inclined ribs of said grill and the roadway in front of the vehicle but rearwardly of the road portion illuminated by said light beams of said headlights.

2,403,857
GRATE BEARER BAR
John R. Graves, Yonkers, N. Y., assignor to The Standard Stoker Company, Incorporated, New York, N. Y., a corporation of Delaware
Application April 8, 1941, Serial No. 387,455
5 Claims. (Cl. 126—168)



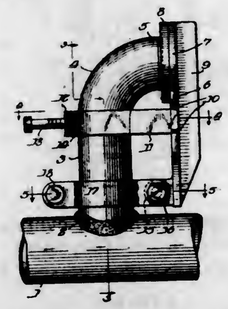
1. As a new article of manufacture, a combined stoker conduit and grate bearer bar frame comprising in an integral structure a tubular stoker conduit, a plate spaced from and extending lengthwise of said stoker conduit and ribs connecting said plate and stoker conduit, said plate being formed with a plurality of slots spaced lengthwise of said plate.

2,403,858
LIVE MINNOW AND SMALL FISH RECEPTACLE
Roy L. Groom and Roger E. Parrish, Sr., Jackson, Tenn.
Application March 3, 1944, Serial No. 524,910
1 Claim. (Cl. 43—56)



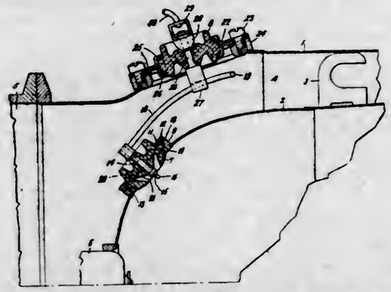
A bait and fish receptacle, comprising a relatively long rectangular box having two transverse partition walls disposed in relatively close proximity one to the other and adjacent to the longitudinal center of the box to divide the box into a central compartment and two end compartments, a cover pivotally attached to one longitudinal side of the box and adapted to close all of the compartments, the highest part of the top edge of each partition lying in the plane of the top of the box to be engaged by the cover when closed, each of said partition walls having only one recess formed in the top edge adjacent one side of the box, the recess of one wall being at the opposite side of the box from the recess of the other wall, the partition walls having apertures therethrough adjacent the bottom of the box, handle means connected with the side walls of the box for carrying the latter, and means for admitting air into the top part of each of the two end compartments.

2,403,859
TESTING DEVICE
Arthur W. Hatfield, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 26, 1944, Serial No. 551,387
3 Claims. (Cl. 138—90)



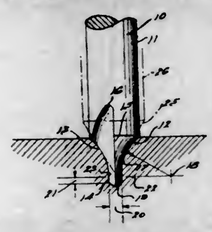
1. In a testing device of the character described, a saddle member having means for attachment to a fitting to be tested, a yoke member, the said saddle member having positioning means cooperating with said yoke member, the latter member having an end plate for positioning of a gasket between an annular end portion of the fitting to be tested and the said plate, the said saddle member and end plate being adjustably movable upon the fitting to be tested transversely relative to the annular end portion of the said fitting.

2,403,860
COMBUSTION UNIT
Charles F. Heath, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 22, 1944, Serial No. 541,605
5 Claims. (Cl. 175—115)



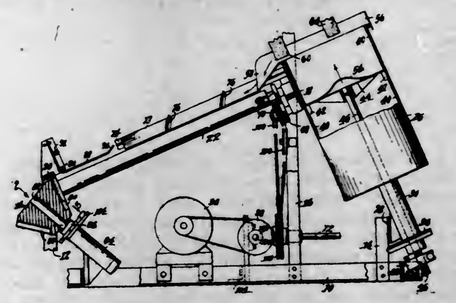
1. In a combustion unit, spaced inner and outer casings, each provided with an opening, the opening in the outer casing being out of alignment with the opening in the inner casing, an ignition plug member mounted in the opening in the inner casing having a post extending through it, the inner end of which forms an electrode terminal, an ignition plug member mounted in the opening in the outer casing and having a conducting post extending through it, a flexible rod connected to one of said posts and biased toward the other post by reason of its flexibility, and means forming a sliding connection between the flexible rod and said other post for electrically connecting the posts together.

2,403,861
CENTER DRILL
William F. Klemm, Detroit, Mich.
Application December 18, 1944, Serial No. 568,634
3 Claims. (Cl. 77—66)



1. A center drill having a body portion, a countersinking portion extending from said body portion, a pilot portion extending from said countersinking portion having an end cutting portion, said portions having at least one flute therein, the section above said end cutting portion and below said countersinking portion being of less diameter than said end cutting portion to provide relief therefor.

2,403,862
ARTICLE DELIVERING APPARATUS
Eino E. Lakso, Fitchburg, Mass.
Application April 20, 1942, Serial No. 439,674
1 Claim. (Cl. 198—53)

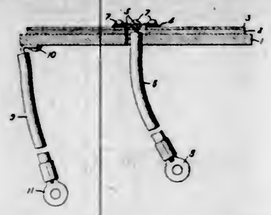


In an apparatus of the class described, a support, a hollow hopper mounted to rotate on said support, a floor movable through said hopper continuously to expel articles at a continuous controlled rate therefrom, means connecting said hopper and floor for axial sliding but non-rotative movement of the latter relative to the former, a screw shaft fixed to said floor, a drive shaft, a hollow shaft connected to said hopper, said screw shaft being located within said hollow shaft for axial movement relative thereto, means operatively connecting said drive shaft and said hollow shaft, a fixed nut adapted for engagement with said screw shaft, an inclined chute receiving the articles at a predetermined rate from the hopper, and means associated with the chute to align said articles in single file in the chute.

2,403,863
PHOTOELECTRIC CELL
Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application August 26, 1944, Serial No. 551,416
5 Claims. (Cl. 136—89)

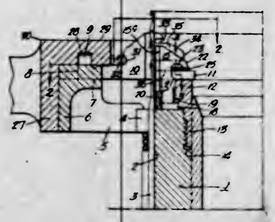
2. A photoelectric cell of the current generating type comprising a back electrode having an

opening therethrough, a layer of light-sensitive material on said back electrode, a translucent electrode on said light-sensitive layer, and an



annular current collecting rib deposited upon said translucent electrode at the periphery of said opening.

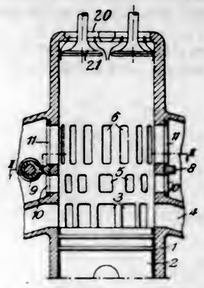
2,403,864
SINKER GUIDE FOR KNITTING MACHINES
Walter Larkin, Norristown, Pa., assignor, by mesne assignments, to Fidelity Machine Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application August 18, 1945, Serial No. 611,319
13 Claims. (Cl. 66—107)



1. A knitting machine structure comprising a knitting cylinder, a plurality of needles circumferentially spaced around and operable axially of said cylinder, a plurality of sinkers operable in planes radial to the axis of said cylinder between said needles, a radially slotted ring on the upper end of said cylinder, a plurality of interchangeable partitions between said sinkers in radial planes coincident with said needles and mounted at their lower ends in the radial slots of said ring, and a clamp ring concentric to said grooved ring and engaging said lower ends of said partitions to secure said partitions rigidly in said radial slots against radial displacement therefrom.

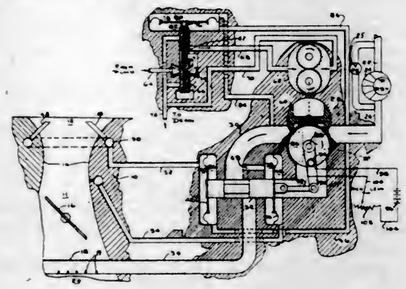
2,403,865
SUPERCHARGING CONTROL FOR INTERNAL-COMBUSTION ENGINES
Pierre Lebet, Arbon, Switzerland, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland
Application March 13, 1943, Serial No. 479,023
In Germany January 9, 1942
7 Claims. (Cl. 123—75)

1. An internal combustion engine comprising in combination, a cylinder and a piston arranged for reciprocation therein, exhaust ports in said cylinder near the compression stroke end of said piston, exhaust valve for said ports, a ring valve concentric with and contacting said cylinder, and two pairs of registering belts of intake ports arranged in axial alignment in said valve and in the part of the cylinder wall swept by said piston respectively, said pairs of parts being controlled by said ring valve, the ports in the belts nearer to the compression stroke end of said cylinder being materially narrower than the ports in the



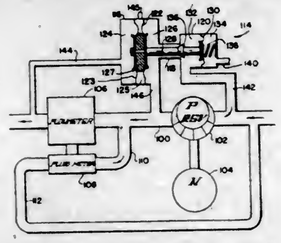
belts farther away from said cylinder end, and means for oscillating said ring valve.

2,403,866
CHARGE FORMING DEVICE
Donald E. Lipfert, Meriden, Conn., assignor to Chandler-Evans Corporation, South Meriden, Conn., a corporation of Delaware
Application October 5, 1943, Serial No. 505,027
9 Claims. (Cl. 261—37)



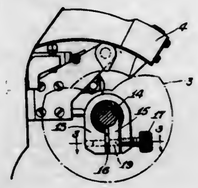
1. In a fuel supply system for an internal combustion engine, a first conduit for air flowing to said engine for combustion purposes, a fuel pump for supplying fuel to said engine under superatmospheric pressure, a second conduit for conveying fuel discharged from said pump, a valve in said second conduit, a flow meter associated with said second conduit including a rotating element of the fluid displacement type in said second conduit, fluid motor means for rotating said element, an external source of motive fluid under pressure, valve means for controlling the supply of motive fluid to said motor means, said valve means including a cylindrical valve member adapted to move longitudinally to vary said motive fluid supply, a plurality of vanes attached to said valve and lying in the path of the fuel flowing thru said valve member so as to continuously rotate it on its seat, a flexible diaphragm connected to said valve member for causing longitudinal movement thereof, means for applying the pressure differential across said meter element to the opposite sides of said diaphragm to position said valve, means for producing a force varying as a function of the speed of rotation of said meter element, means associated with said first conduit for producing two unequal pressures whose difference varies as a function of the quantity of air flowing therethru, and means responsive to said force and to the difference of said two unequal pressures for controlling the valve in the second conduit.

2,403,867
FLOWMETER
Donald E. Lipfert, Meriden, Conn., assignor to Chandler-Evans Corporation, South Meriden, Conn., a corporation of Delaware
Application November 30, 1943, Serial No. 512,309
10 Claims. (Cl. 73—232)



1. Apparatus for measuring the flow of fluid thru a conduit, comprising a rotary flow meter in said conduit, a pump for forcing fluid thru said conduit, fluid motor means for driving said meter, means for conveying motive fluid to said motor means from the upstream side of said meter, and means responsive to the pressure differential across said meter for controlling the supply of fluid to said motor means.

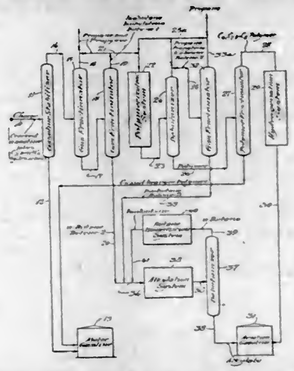
2,403,868
CAMSHAFT ASSEMBLY
Nicholas P. Lloyd, Wynnewood, Pa.
Application August 13, 1942, Serial No. 454,700
5 Claims. (Cl. 287—1)



4. In a coupling for detachably uniting two shaft sections in predetermined axial and angular relation, an axially extending tapered recess in the end of one of said sections adapted for wedging engagement with a correspondingly tapered end of the other section, abutment means on one of said sections for establishing a predetermined relative angular position of said sections about the shaft axis, an element on the other of the sections for engagement with said abutment means, and a single securing element coacting with said abutment means and with said element to retain the sections in the said abutting relation and in said wedging engagement.

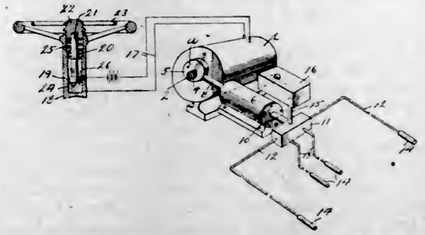
2,403,869
AVIATION GASOLINE PRODUCTION
Robert F. Marschner, Homewood, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application April 29, 1942, Serial No. 440,989
6 Claims. (Cl. 260—683.1)

1. The method of obtaining maximum utilization of a hydrocarbon gas stream containing propylene, isobutylene, and normal butenes for the preparation of aviation gasoline which method comprises fractionating said gas stream into a light fraction containing predominately propylene, butene-1, and isobutylene and a heavy fraction containing butene-2, polymerizing the light fraction under conditions for effecting the formation of substantial amounts of a heptene fraction, hydrogenating said heptene fraction under



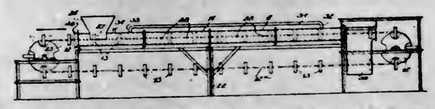
conditions for effecting saturation, alkylating the heavy fraction containing butene-2 with isobutane to form alkylate "isooctane" and blending said alkylate "isooctane" with said hydrogenated heptene fraction.

2,403,870
BRAKE CONTROL FOR MOTOR VEHICLES
Thomas A. Martin, Jamaica, N. Y.
Application June 6, 1944, Serial No. 538,949
4 Claims. (Cl. 188—152)



1. A fluid brake operating means comprising a starter motor, a fluid cylinder adjacent the starter motor, a piston within said cylinder and adjacent the starter motor, a piston rod carried by said piston at an angle to the axis of the starter motor, said cylinder having conduit connections with the brakes and a rotatable frictionally held member carried by the starter motor and cooperating with the piston rod for moving the same longitudinally.

2,403,871
METHOD OF BLANCHING FOOD PRODUCTS
Douglas M. McBean, Rochester, N. Y.
Application October 5, 1942, Serial No. 460,918
10 Claims. (Cl. 99—103)

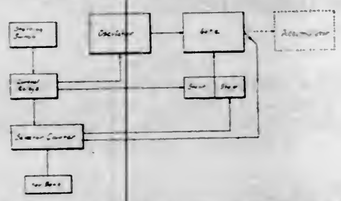


1. A method of blanching edibles which comprises forming a series of closed chambers adapted to contain the edibles being blanched, admitting a heating medium to said closed chambers, and continuously moving said closed chambers together with the edibles.

2,403,872
TREATMENT OF GLASS FIBERS
Kenneth J. Miller, Binghamton, N. Y., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
No Drawing. Application October 30, 1943, Serial No. 508,400
2 Claims. (Cl. 117—72)

1. The method of making glass fiber-resin combinations which comprises applying to a glass fiber fabric an aqueous solution of a potentially reactive unreacted mixture of formaldehyde and resorcinol having a low viscosity, drying the glass fibers for a time and at a temperature sufficient to dry the coating on the fibers but insufficient to completely react the constituents of the mixture, to form a thin film of partially cured resin on the fiber surfaces, coating the dried glass fibers with a thermosetting urea formaldehyde resin, and curing the urea formaldehyde resin.

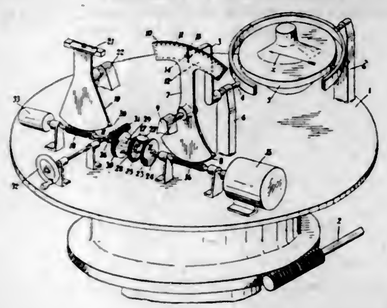
2,403,873
IMPULSE EMITTER
Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application August 6, 1942, Serial No. 453,834
5 Claims. (Cl. 177—380)



1. In combination, an accumulator of data including denominationally arranged electronic devices, the devices of a denomination being connected in a series for step-by-step operation by electric signals, each device representing a denominational number; means to enter data into said accumulator at a step by causing a selected device in each of the selected denominations to become operating; a signal producer for operating said accumulator, each signal causing an entry of a unit into the lowest denomination of said accumulator; connections between the signal-producing unit and the accumulator, said connections including a gate for blocking or admitting signals; and means under control of the accumulator, operative when the accumulator has been filled to capacity with data for causing said gate to block signals from passing.

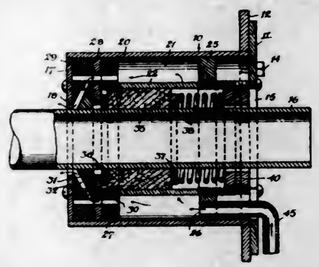
2,403,874
ELECTRICAL FOLLOW-UP DEVICE
John Cuthbert Needham, Chiswick, London W. 4, England, assignor to Evershed & Vignoles Limited, Chiswick, London, England, a company of Great Britain
Application July 10, 1941, Serial No. 401,868
In Great Britain February 27, 1936
5 Claims. (Cl. 33—204)

1. An electrically-controlled follow-up device comprising a controlling element, a follow-up member cooperating with said controlling element, an electric motor in operative connection with said follow-up member, electrical connections between said motor, said controlling element and said follow-up member controlled by relative movement between said controlling element and said follow-up member to cause said motor to drive said follow-up member in accordance with said relative movement, a level indicator, means operable by said motor to move said level indicator in accordance with the motor-driven move-



ments of said follow-up member, and manually-controlled means associated with said level indicator for causing said indicator to be restored to its normal setting after it has experienced any deviation therefrom.

2,403,875
STUFFING BOX
William A. Neumann, Rego Park, N. Y.
Application May 11, 1944, Serial No. 535,177
1 Claim. (Cl. 286—27)

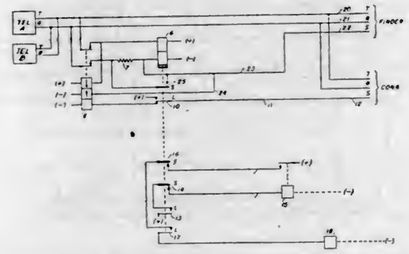


A stuffing box for a movable tubular member, said stuffing box comprising a supporting plate having a central opening therein through which said movable member extends, a pair of cylindrical members attached to said supporting plate, one within the other, concentrically with each other and with the movable member, said cylindrical members being spaced from each other and from said movable member, the inner of said cylindrical members being shorter than the outer cylindrical member, spring pressed packing between said movable member and said inner cylindrical member, a pair of spaced spacer rings maintaining the spaced relationship between said cylindrical members and forming an annular chamber between them, a nozzle block, a nozzle ring and a retaining plate mounted in the free end of said outer cylindrical member adjacent one of said spacer rings and the free end of said inner cylindrical member, the retaining plate having a central orifice through which said movable member extends and which provides an annular space between said retaining plate and said movable member, registering passages in said nozzle block and nozzle ring which afford communication between said annular space and said annular chamber, and means for introducing air under pressure into said annular chamber.

2,403,876
GLYCOL ESTERS AND METHOD OF PRODUCING SAME
Friedrich F. Nord, Bronx, N. Y.
No Drawing. Application January 22, 1943, Serial No. 473,261
14 Claims. (Cl. 260—488)

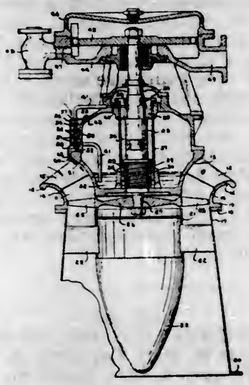
1. A method of producing glycol esters which comprises mixing an aliphatic aldehyde with a complex coordination catalyst of magnesium-aluminum-alkoxide, allowing the mixture to stand until a reaction takes place causing three molecules of aldehyde to react to form a glycol ester.

2,403,877
TELEPHONE LINE CIRCUIT
Winfred T. Powell, Rochester, N. Y., assignor to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application August 24, 1944, Serial No. 551,006
5 Claims. (Cl. 179—17)



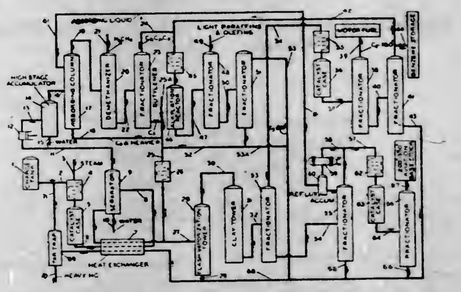
1. In an automatic telephone system, a telephone line, a finder sleeve conductor and a connector sleeve conductor associated with said line, a line relay having two windings and also primary and secondary sets of contact springs operated thereby, the primary sets of contact springs being operated in response to relatively weak current through a winding of said relay and the secondary sets of contact springs being operated in response to relatively strong current through a winding of said relay, a second relay having two sets of normally closed contacts, said line relay on the initiation of a call on said line having its two windings connected in a series circuit including both sides of said line and said normally closed contacts, said series circuit having sufficient resistance therein to limit the current through said line relay whereby only the primary contact springs thereof are operated, controlling means including operated primary contact springs and non-operated secondary contact springs for effecting the extension of said telephone line responsive to the operation of the line relay on the initiation of a call, a circuit independent of said resistance completed for said line relay responsive to the extension of said line whereby both primary and secondary contact springs are operated by said line relay, a circuit completed over said finder sleeve conductor for operating said second relay also in response to the extension of said telephone line, and an operating circuit completed for the second relay through the connector sleeve conductor responsive to the extension of a call to said telephone line, whereby the normally closed contacts of the second relay are operated to disconnect the line relay from said line.

2,403,878
BLOWER APPARATUS
Henry F. Schmidt, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 26, 1943, Serial No. 511,786
2 Claims. (Cl. 230—209)



1. In a propeller-type blower, a double-walled casing providing an annular passage for flow of air; a propeller in the passage and having a hub; a vertical shaft carrying the hub; a pair of vertically-spaced bearings supporting the shaft; a casing structure enclosing said bearings; a lubricant reservoir; means for supplying lubricant from the reservoir to the bearings; a conduit for returning lubricant from the bearings to the reservoir; said conduit including an intermediate cooling section disposed in close proximity to the outer surface of the bearing casing structure; an auxiliary wall structure cooperating with said outer surface of the bearing casing structure to provide a closure for the conduit cooling section, said closure having an air inlet at the top and an air outlet at the bottom; and means placing said outlet in communication with the annular air passage of the blower, whereby the flow of air through said annular air passage induces flow of air through the enclosure in heat-exchange relation to the conduit cooling section.

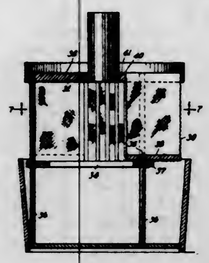
2,403,879
PROCESS OF MANUFACTURE OF AVIATION GASOLINE BLENDING STOCKS
Walter A. Schulze and Carl J. Helmers, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application March 10, 1944, Serial No. 525,922
13 Claims. (Cl. 260—671)



1. In a hydrocarbon conversion process of the class described, the steps comprising subjecting

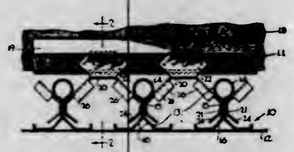
a stream of a hydrocarbon feed stock comprising a petroleum distillate having a relatively high carbon to hydrogen ratio to cracking under cyclization conditions in the presence of an aromatizing catalyst at a temperature of between 1050–1250° F.; separating effluent from the preceding step into a first fraction comprising normally gaseous olefinic material, a normally liquid about 200° F. end-point second fraction, and a third fraction boiling between about 200–350° F.; polymerizing a stream of the second fraction in the presence of a polymerization catalyst to effect substantial reduction in olefin and sulfur content; recovering a benzene-concentrate from effluent from the polymerization step; alkylating a stream of the benzene-concentrate with at least part of said first fraction; recycling at least part of the unreacted effluent from the alkylation step to the stream of feed stock; and transmitting reacted effluent from the alkylation step to effluent from the cracking step.

2,403,880
DEHUMIDIFYING APPARATUS
Thomas K. Taft, Cornwall, N. Y.
Application April 5, 1944, Serial No. 529,641
12 Claims. (Cl. 299—24)



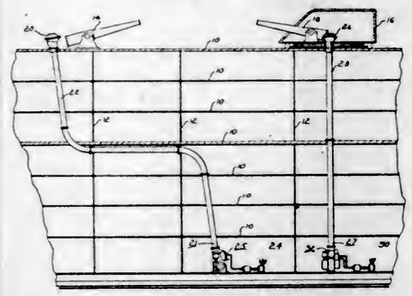
1. In dehumidifying apparatus: a suspension member comprising a top tray to receive dehydrating material, said tray affording spoke members radiating from a central hub to afford intermediate delivery apertures, and a plurality of foraminous containers depending from edges of the spoke members of the tray to receive the dehydrating material.

2,403,881
METALLIC STRUCTURE
John P. Tarbox, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 16, 1944, Serial No. 522,683
10 Claims. (Cl. 189—34)



1. In a metallic structure, in combination, a skin blanket element including a skin sheet and reinforcing stringers having portions which laterally overhang the sides of a base-connecting web, a frame element including chord members disposed transversely of the stringers and having a side wall directed toward the blanket, and connecting clips each having angularly disposed wings secured to the chord wall and to a stringer web respectively and having a flexible intermediate portion adapted to be bent to permit the passage of parts when the skin and frame elements are assembled.

2,403,882
AMMUNITION CONVEYER
William Thomas, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application August 25, 1936, Serial No. 97,801
Renewed October 28, 1939
19 Claims. (Cl. 89—46)

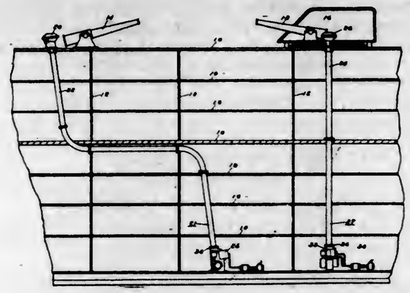


1. In a conveyer for delivering ammunition between a loading station adjacent a storage compartment and a station for use and having an endless flexible ammunition conveyer band, a flame-proof casing surrounding the conveyer band and means for driving the conveyer band in intermittent cycles of movement, the combination with the conveyer of means for passing ammunition into said casing at the loading station, means cooperating with the ammunition passing means for maintaining a flame-proof seal between the inside and outside of the casing at all times, and means preventing initiation of a cycle of the conveyer band until the ammunition passing means has operated to position a piece of ammunition on the conveyer band.

2,403,883
AMMUNITION CONVEYER
William Thomas, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application September 23, 1936, Serial No. 102,156
Renewed October 28, 1939
13 Claims. (Cl. 89—46)

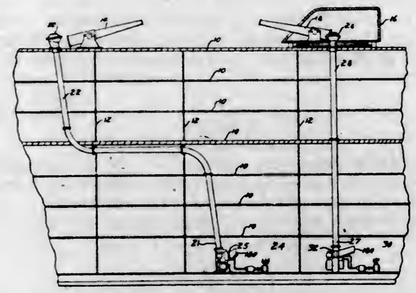
1. In a conveyer for delivering ammunition between a loading station adjacent a storage compartment and a station for use and having an endless flexible ammunition conveyer band, a flame-proof casing surrounding the conveyer band and means for driving the conveyer band, the combination with the conveyer of means forming an opening in said casing at the loading station, and a pair of inwardly swinging flame-tight closure means together being adapted to effectively maintain said opening sealed against the passage of flame and against gas pressure inside the casing at all times, said closure means being spaced apart sufficiently to provide with the casing

a chamber into which a piece of ammunition may be placed through one of said closure means and



from which the article may be transferred to the conveyer through the other closure means.

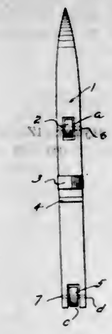
2,403,884
AMMUNITION CONVEYER
William Thomas and Ralph L. Tweedale, Waterbury, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application August 29, 1936, Serial No. 98,530
Renewed October 28, 1939
9 Claims. (Cl. 89—46)



1. In a conveyer for delivering ammunition between a loading station adjacent a storage compartment and a station for use and having an endless flexible ammunition conveyer band, a flame-proof casing surrounding the conveyer band and means for driving the conveyer band in intermittent cycles of movement, the combination with the conveyer of means for passing ammunition into said casing at the loading station and means operated from the conveyer driving means for driving the ammunition passing means during the initial portion of a cycle of movement of the conveyer band and operable to hold the ammunition passing means stationary during the remainder of the cycle whereby the ammunition passing means is gradually accelerated as the conveyer accelerates during the initial portion of the cycle.

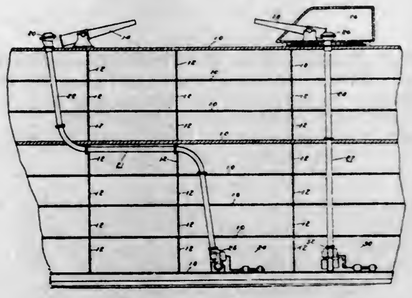
2,403,885
RECREATIONAL ROLLER TOY
Thomas Thompson, Bothell, Wash.
Application May 6, 1944, Serial No. 534,388
3 Claims. (Cl. 280—7.13)

1. A device of the class described comprising an elongated runner body provided with slots in its central and rear end portions, the under surface of the runner body being otherwise free and unobstructed, rollers for arrangement within said opening and extending below the bottom surface of the runner body, axles removably inserted through the body and the rollers for holding the



rollers in applied position and a filling block for the central opening when the roller is removed therefrom, the axle for said roller also providing means to maintain the block in applied position.

2,403,886
AMMUNITION HOIST
Ralph L. Tweedale, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application October 3, 1936, Serial No. 103,898
Renewed October 28, 1939
14 Claims. (Cl. 89—46)

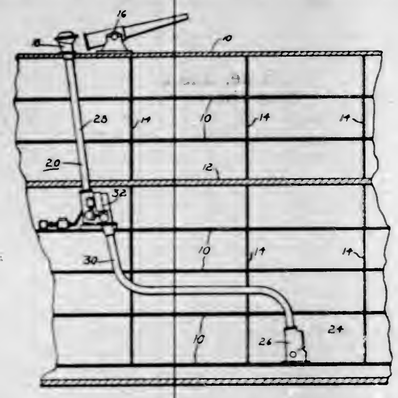


1. In a conveyor for delivering ammunition between a loading station adjacent a storage compartment and a station for use and having an endless flexible ammunition conveyor band, a flame-proof casing surrounding the conveyor band and means for driving the conveyor band, the combination with the conveyor of means for passing ammunition into said casing at the loading station and separate motor means for driving the ammunition passing means, whereby the ammunition passing means may be operated while the conveyor is stationary.

2,403,887
AMMUNITION HOIST
Ralph L. Tweedale, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application October 3, 1936, Serial No. 103,899
Renewed October 28, 1939
17 Claims. (Cl. 89—46)

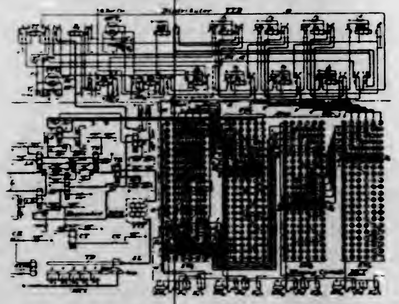
1. In a conveyor system for delivering ammunition between a loading station adjacent a storage

compartment and a station for use the combination of a first endless band conveyor having a delivery end adjacent the station for use, a second endless band conveyor having a loading end at the loading station, said conveyors being arranged in substantially end to end relation, a flame-proof casing surrounding the first conveyor



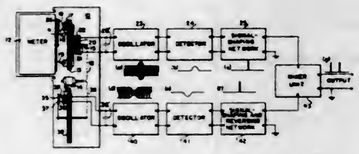
and transfer means for transferring ammunition from the second conveyor to the first conveyor comprising a rotatable cylinder having an ammunition receiving recess arranged to receive a piece of ammunition from the second conveyor and upon rotation through a predetermined angle about an axis generally parallel to line of movement of the conveyors to deliver the piece of ammunition to the first conveyor.

2,403,888
ENCIPHERING AND DECIPHERING SYSTEM
Claude Irving Cronburg, Cleveland Heights, Ohio, assignor to American Telephone and Telegraph Company, a corporation of New York
Application February 12, 1944, Serial No. 522,039
14 Claims. (Cl. 178—22)



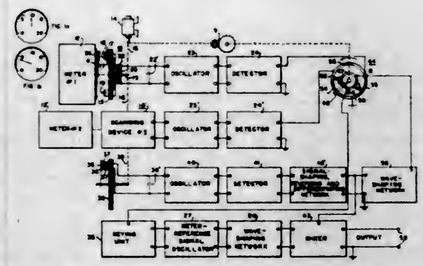
1. In a signaling system, a common circuit upon which a plurality of combinations of impulses are impressed, said code combinations comprising a cycle of successive impulses uniform in number but variable in character, means to encipher said code combinations by varying the character of component impulses in an arbitrary manner, and a distributor for transferring the impulses of a code combination one at a time from said common circuit to individual circuits of a group of circuits, said distributor including a vacuum tube and associated timing circuits so related that said vacuum tube will produce a succession of timed intervals one corresponding to each impulse of a code combination.

2,403,889
TELEMETERING SYSTEM
Michael J. Di Toro, Brooklyn, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application August 24, 1943, Serial No. 499,769
10 Claims. (Cl. 177—351)



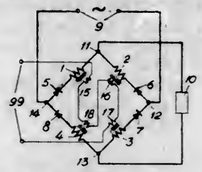
1. A telemetering system for developing a signal representative of the position of a meter indicator having at least a portion thereof formed of a material capable of having electrical losses produced therein comprising, oscillatory-field-producing means for producing said electrical losses and having a value of impedance which varies with the proximity of the oscillatory field thereof to said material because of said electrical losses therein, means for effecting relative mechanical scanning motion between said oscillatory field of said field-producing means and said portion of said indicator, and means for supplying oscillations to said field-producing means to develop said oscillatory field and responsive to the variation of impedance of said field-producing means during said scanning motion for developing a signal representative of the position of said indicator.

2,403,890
TELEMETERING SYSTEM
John Kelly Johnson, Douglaston, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application August 24, 1943, Serial No. 499,770
16 Claims. (Cl. 177—351)



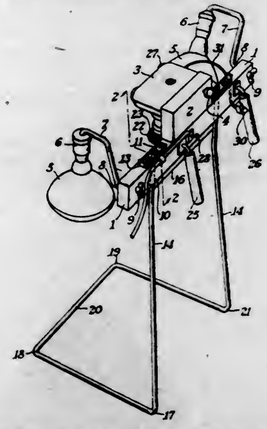
1. A telemetering system for developing a composite signal representative of the indications of a plurality of meters comprising, scanning means for developing successive electrical signals of one type representative of reference and indication points for each of said meters, means operating synchronously with said scanning means for developing electrical synchronizing signals of a different type, means operating synchronously with said scanning means for developing meter-reference signals having an electrical characteristic rendering them separable from said above-mentioned signals, and means for combining said signals into a composite signal for transmission.

2,403,891
LOAD CURRENT CONTROL
Uno Lamm, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application September 23, 1942, Serial No. 459,421
In Sweden October 13, 1941
3 Claims. (Cl. 175—363)



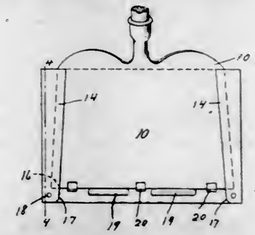
1. Means for influencing a load current in dependence on a controlling direct current comprising a number of iron cores, windings thereon traversed by the controlling current, other windings on said cores traversed by said load current connected to terminals of an alternating current source and interconnected to form direct current terminals equipotential to the fundamental wave of the alternating current, a rectifier element connected between each direct current terminal and each alternating current terminal in series with one of said interconnected windings, and a winding on each of said cores traversed by the rectified load current.

2,403,892
PHOTOGRAPHING DEVICE
John W. McFarlane and Charles F. Andrews, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 27, 1944, Serial No. 560,627
2 Claims. (Cl. 88—24)



1. A device for use in the rapid photographing of small objects including a support adapted to be supported by hand and comprising a long, thin, rod-like base, a screw for attaching a camera with its lens and shutter to a medial portion of said base and with the lens axis transverse to the length of the base, a pair of lamps, lamp brackets movably mounted on the ends of the base and to both sides of the camera-attaching screw, handles for supporting said base extending from the base at an angle thereto, a lamp switch carried by the base adjacent a handle thereof, a shutter release carried by the base adjacent a handle thereof, a focus and field determining frame having rod ends detachably fastened to the frame, one on each side of the screw for attaching the camera, said focus and field determining frame including a U-shaped frame formed at substantially right angles to the lens axis and a supplementary lens carried by the rod ends and positioned for alignment with the lens axis whereby said frame may be positioned, the switch may be operated and the shutter may be released while said frame is supported by the handles.

2,403,893
CUTTING ATTACHMENT FOR HOES
Charles T. Willson, Canaan, Conn., assignor to Local Industries, Incorporated, Lakeville, Conn., a corporation of Connecticut
Application March 29, 1945, Serial No. 585,429
10 Claims. (Cl. 97—66)



7. A cutting attachment for hoes comprising a thin metal plate having a cutting edge and having side flanges abutting said plate at their lower ends and spaced away therefrom thereabove to form grooves for receiving the edges of the hoe blade, the bottoms of the grooves forming stops for limiting the inward movement of the hoe blade, and one or more lugs on the plate between said flanges for interlocking the blade to the plate.

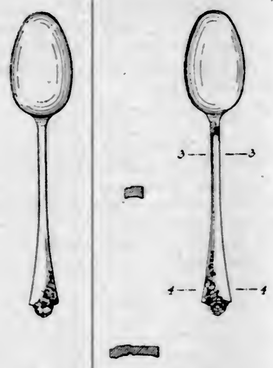
2,403,894
ADDITIVES FOR LUBRICANTS
John D. Bartleson, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 23, 1945, Serial No. 601,321
19 Claims. (Cl. 252—32.7)

1. A lubricant comprising an oil dispersible reaction product of an organic amine and a phosphorous sulfide subjected to a temperature of above about 400° F. and below temperatures at which the reaction product would be decomposed.

DESIGNS

JULY 9, 1946

145,150
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Grosvenor N. Allen, Oneida, and Mary Parker Fleming, Fulton, N. Y., assignors to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application March 20, 1946, Serial No. 127,707
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or similar article, substantially as shown and described.

145,151
DESIGN FOR A CLIP
Marcel Boucher, New York, N. Y.
Application December 27, 1945, Serial No. 125,044
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a clip, substantially as shown.

145,152
DESIGN FOR A CLIP
Marcel Boucher, New York, N. Y.
Application December 27, 1945, Serial No. 125,049
Term of patent 7 years
(Cl. D45—19)



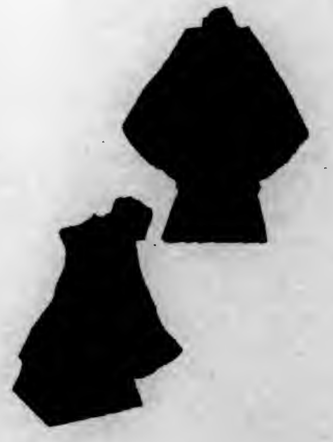
The ornamental design for a clip, substantially as shown.

145,153
DESIGN FOR A SHOE SOLE
Norman Everett Bovay, Naugatuck, Conn., assignor to Sport Products, Inc., Cincinnati, Ohio, a corporation of Ohio
Application November 19, 1945, Serial No. 123,904
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a shoe sole, substantially as shown.

145,154
DESIGN FOR A STATUETTE OR SIMILAR ARTICLE
Eric Burtis, Los Angeles, Calif.
Application March 8, 1945, Serial No. 118,362
Term of patent 14 years
(Cl. D29—23)



145,154—Continued



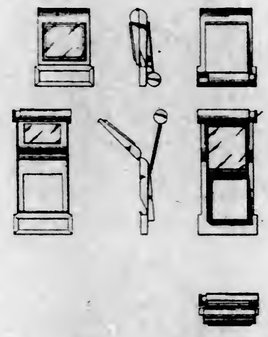
The ornamental design for a statuette or similar article, substantially as shown.

145,155
DESIGN FOR A TIRE
John A. Christie, Akron, Ohio, assignor to The Mohawk Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 4, 1945, Serial No. 119,898
Term of patent 14 years
(Cl. D90—20)



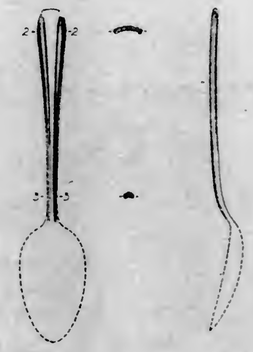
The ornamental design for a tire, as shown.

145,156
DESIGN FOR A COMBINED COMPACT, MATCH HOLDER, AND LIPSTICK HOLDER
Emanuel P. Consiglio, Inglewood, Calif.
Application February 4, 1946, Serial No. 126,237
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a combined compact, matchholder and lipstick holder, substantially as shown.

145,157
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Edward J. Conroy, Meriden, Conn., assignor to International Silver Company, Meriden Conn., a corporation of New Jersey
Application October 4, 1945, Serial No. 122,524
Term of patent 14 years
(Cl. D54—12)



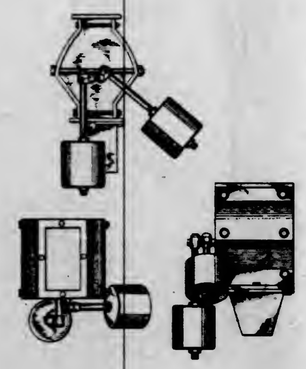
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

145,158
DESIGN FOR A CONTAINER CAP
Philip A. Derham, Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application November 1, 1945, Serial No. 123,382
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a container cap, substantially as shown.

145,159
DESIGN FOR A FEEDER BOX FOR GRAIN OR THE LIKE
Waldo E. Foster, Minneapolis, Minn., assignor to Conveyors Incorporated, St. Paul, Minn., a corporation of Minnesota
Application January 29, 1945, Serial No. 117,644
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a feeder box for grain or the like, as shown and described.

145,160
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,885
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,161
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,889
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,162
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,890
Term of patent 3½ years
(Cl. D3—26)



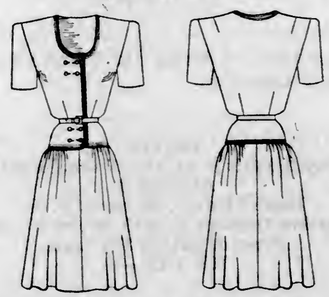
The ornamental design for a dress, substantially as shown.

145,163
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,891
Term of patent 3½ years
(Cl. D3—26)



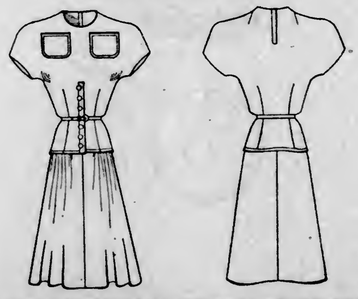
The ornamental design for a dress, substantially as shown.

145,164
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,892
Term of patent 3½ years
(Cl. D3—26)



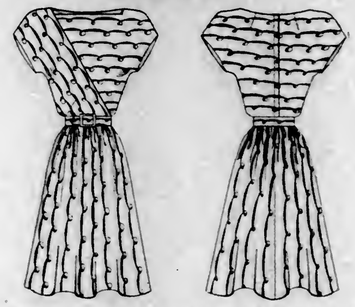
The ornamental design for a dress, substantially as shown.

145,165
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,893
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,166
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,894
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,167
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,896
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,168
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,900
Term of patent 3½ years
(Cl. D3—26)



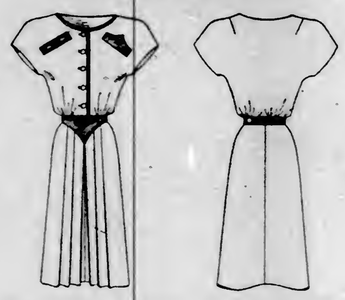
The ornamental design for a dress, substantially as shown.

145,169
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,901
Term of patent 3½ years
(Cl. D3—26)



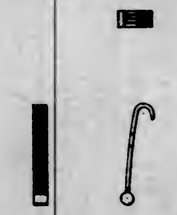
The ornamental design for a dress, substantially as shown.

145,170
DESIGN FOR A DRESS
Zelma Golden, New York, N. Y.
Application March 25, 1946, Serial No. 127,902
Term of patent 3½ years
(Cl. D3—26)



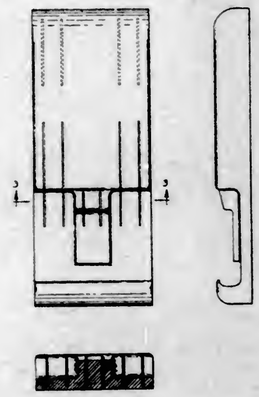
The ornamental design for a dress, substantially as shown.

145.171
DESIGN FOR A CLIP FOR A FOUNTAIN PEN OR SIMILAR ARTICLE
Warren Green, Noroton Heights, Conn., and Peter Schladermundt, Bronxville, N. Y., assignors to Salz Bros. Inc., New York, N. Y., a corporation of New York
Application January 3, 1946, Serial No. 125,246
Term of patent 14 years
(Cl. D74—1)



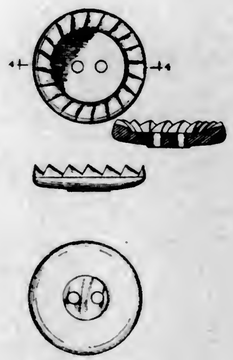
The ornamental design for a clip for a fountain pen or similar article, substantially as shown.

145,172
DESIGN FOR A KNIFE HOLDER
James L. Hvale, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application November 13, 1945, Serial No. 123,684
Term of patent 14 years
(Cl. D44—29)



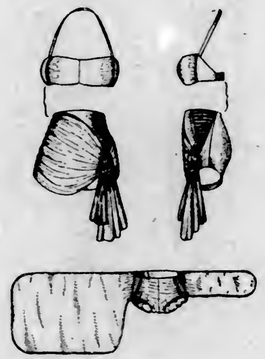
The ornamental design for a knife holder, as shown and described.

145,173
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
Daniel Kasen, Newark, N. J.
Application October 6, 1945, Serial No. 122,597
Term of patent 3½ years
(Cl. D17—2)



The ornamental design for a button or similar article, substantially as shown.

145,174
DESIGN FOR A SWIMMING SUIT OR THE LIKE
Margit Fellegi Laszlo, Los Angeles, Calif., assignor to Cole of California Inc., Los Angeles, Calif., a corporation of California
Application October 22, 1945, Serial No. 123,077
Term of patent 3½ years
(Cl. D3—17)



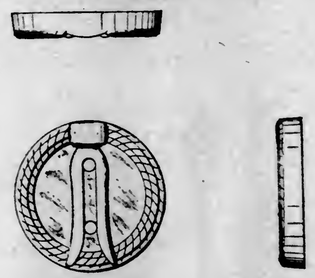
The ornamental design for a swimming suit or the like, as shown and described.

145,175
DESIGN FOR A PERFUME BOTTLE OR THE LIKE
Abraham Levy, New York, N. Y.
Application March 14, 1945, Serial No. 118,482
Term of patent 7 years
(Cl. D58—6)



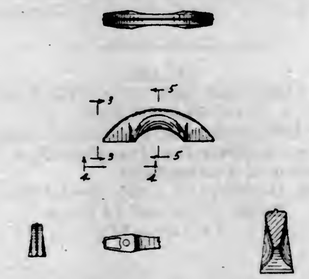
The ornamental design for a perfume bottle or the like, as shown.

145,176
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
Maurice N. Lidz, Woodmere, N. Y.
Application April 1, 1946, Serial No. 128,131
Term of patent 7 years
(Cl. D17—2)



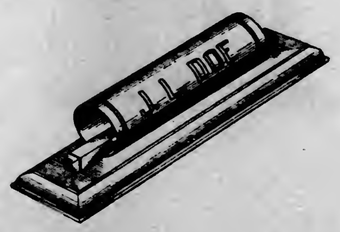
The ornamental design for a button or similar article, substantially as shown.

145,177
DESIGN FOR A DRAWER HANDLE OR SIMILAR ARTICLE
Claus E. Lindberg, Corry, Pa., assignor to Corry-Jamestown Manufacturing Corporation, Corry, Pa., a corporation of New York
Application August 8, 1945, Serial No. 121,316
Term of patent 7 years
(Cl. D10—8)



The ornamental design for a drawer handle or similar article, substantially as shown.

145,178
DESIGN FOR A DESK NAME PLATE
Alistair L. MacRae, San Diego, Calif.
Application November 23, 1945, Serial No. 124,038
Term of patent 7 years
(Cl. D1—12)



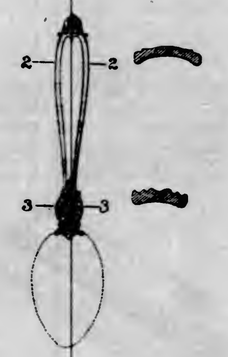
The ornamental design for a desk name plate, substantially as shown.

145,179
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Harry A. Malinowski, Meriden, Conn., assignor to The Ellmore Silver Co., Inc., Meriden, Conn., a corporation of Connecticut
Application October 10, 1945, Serial No. 122,727
Term of patent 14 years
(Cl. D54—12)



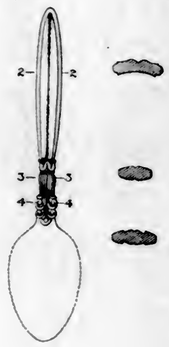
The ornamental design for a spoon or other article of flatware, as shown and described.

145,180
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Harry A. Malinowski, Meriden, Conn., assignor to The Ellmore Silver Co., Inc., Meriden, Conn., a corporation of Connecticut
Application October 10, 1945, Serial No. 122,728
Term of patent 14 years
(Cl. D54—12)



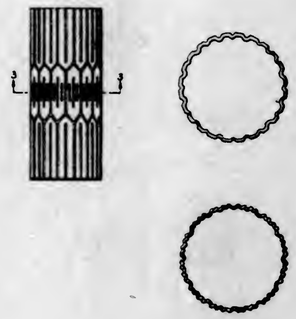
The ornamental design for a spoon or other article of flatware, as shown and described.

145,181
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Harry A. Malinowski, Meriden, Conn., assignor to The Ellmore Silver Co., Inc., Meriden, Conn., a corporation of Connecticut
Application October 10, 1945, Serial No. 122,729
Term of patent 14 years
(Cl. D54—12)



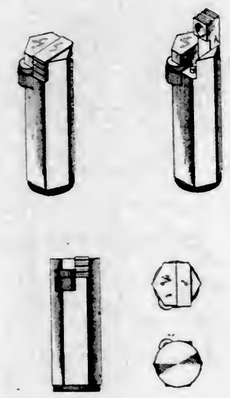
The ornamental design for a spoon or other article of flatware, as shown and described.

145,182
DESIGN FOR A PENCIL FERRULE
Elroy S. Mallard, Georgetown, Ky.
Application February 13, 1946, Serial No. 126,536
Term of patent 14 years
(Cl. D74—1)



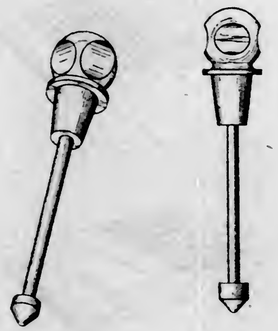
The ornamental design for a pencil ferrule, as shown.

145,183
DESIGN FOR A CIGAR LIGHTER
Philip Meshberg, Trumbull, Conn.
Application August 22, 1945, Serial No. 121,574
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a cigar lighter, as shown.

145,184
DESIGN FOR A COMBINATION BOTTLE STOPPER AND EXTRACTOR
John C. Simpson, Portland, Oreg.
Application January 11, 1946, Serial No. 125,469
Term of patent 14 years
(Cl. D58—10)



The ornamental design for a combination bottle stopper and extractor, as shown.

145,185
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,225
Term of patent 7 years
(Cl. D42—8)



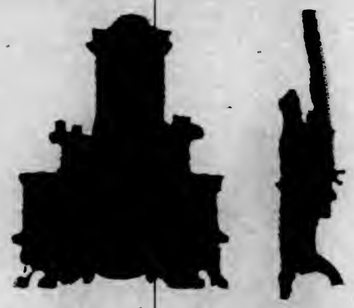
The ornamental design for a lapel watch frame, as shown and described.

145,186
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,228
Term of patent 7 years
(Cl. D42—8)



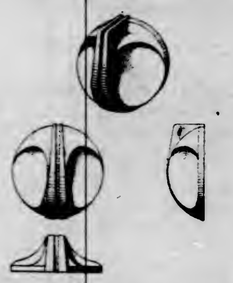
The ornamental design for a lapel watch frame, as shown and described.

145,187
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,229
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a lapel watch frame, as shown and described.

145,188
DESIGN FOR A GAS CONTROL KNOB FOR STOVES AND THE LIKE
Donald E. Stewart, Grandville, Mich., assignor to Winters & Crampton Corporation, Grandville, Mich., a corporation of Michigan
Application September 4, 1945, Serial No. 121,803
Term of patent 7 years
(Cl. D81—25)



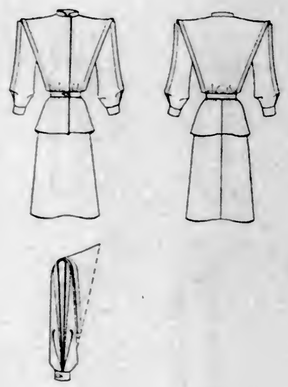
The ornamental design for a gas control knob for stoves and the like, substantially as shown.

145,189
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfeo Verrecchia, Providence, R. I.
Application December 6, 1945, Serial No. 124,410
Term of patent 3½ years
(Cl. D45—19)



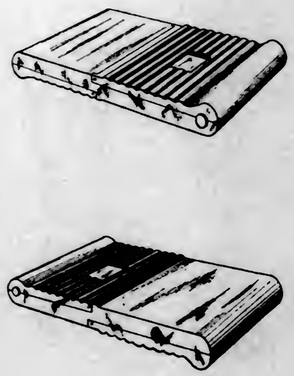
The ornamental design for a brooch or similar article, substantially as shown.

145,190
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application March 25, 1946, Serial No. 127,906
Term of patent 3½ years
(Cl. D3—26)



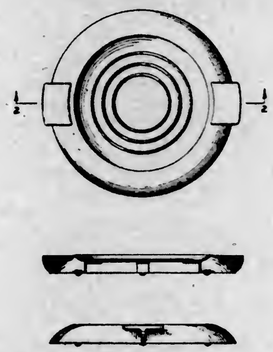
The ornamental design for a dress, substantially as shown.

145,191
DESIGN FOR A COMBINATION CIGARETTE AND VANITY CASE
Ernest L. Warner, Los Angeles, Calif.
Application October 26, 1945. Serial No. 123,229
Term of patent 3½ years
(Cl. D85—2)



The ornamental design for a combination cigarette and vanity case, substantially as shown.

145,192
DESIGN FOR A COOKING UTENSIL SUPPORTING TRAY
Myron J. Zimmer, Wood Dale, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application August 27, 1945, Serial No. 121,666
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a cooking utensil supporting tray, as shown.

145,193
DESIGN FOR A SHOE
Evelyn Ziniti, New York, N. Y.
Application October 13, 1945, Serial No. 122,814
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a shoe, substantially as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Affiliated Retailers, Inc., New York, N. Y. Razor blades. Serial No. 494,998–100; July 9. Class 23.

Agron, Jack H., doing business as The Just Company, St. Joseph, Mo. Especially flavored lozenge. Serial No. 493,579; July 9. Class 6.

Alexa, Inc., assignee: *See*—
De Botelho, Martin.

Alice Frock Co., San Francisco, Calif. Women's and children's wearing apparel. Serial No. 496,881; July 9. Class 39.

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., Dey Brothers & Company, Syracuse, N. Y., and Quackenbush Company, Paterson, N. J. Women's negligees, pajamas, hats, etc. Serial No. 461,296; July 9. Class 39.

Amalgamated Dental Company, Limited, The, London, England. Chemical solutions. Serial No. 494,534; July 9. Class 6.

American Cyanamid Company, New York, N. Y. Chemical preparation. Serial No. 475,232; July 9. Class 6.

American Cyanamid & Chemical Corporation, New York, N. Y. Chemical plasticizer. Serial No. 492,611; July 9. Class 6.

American Oil Company, The, Baltimore, Md. Oil burners for heating equipment. Serial No. 495,563; July 9. Class 34.

American Rolling Mill Company, The, assignee: *See*—
Rustless Iron & Steel Corporation.

American Sacol Company, assignee: *See*—
Wittig, Albert.

Arbino, John, doing business as Marshmallow Products, Cincinnati, Ohio. Marshmallow candies. Serial No. 494,422; July 9. Class 46.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Buffers for leg film. Serial No. 485,118; July 9. Class 29.

Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys' and children's underwear and knitted outerwear. Serial No. 488,010; July 9. Class 39.

Athol Comb Co., The, New York, N. Y. Toilet sets. Serial No. 477,910; July 9. Class 40.

Atlas Instrument Company, Haddonfield, N. J. Electric scissors. Serial No. 495,161; July 9. Class 21.

Atomic Manufacturing Company: *See*—
Coolidge, Eugene C.

Automic Cleaner-Polish Co.: *See*—
Rice, Charles A.

Autotype Company Limited, London, England. Sensitized photographic papers. Serial No. 495,717; July 9. Class 26.

Avon Products, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 494,777; July 9. Class 6.

Avon Products, Inc., New York, N. Y. Perfumes, toilet water, lipstick, etc. Serial No. 494,780; July 9. Class 6.

Baker Castor Oil Company, The, New York, N. Y., and Bayonne, N. J. Solid polymerized and oxidized vegetable oils. Serial No. 492,173; July 9. Class 6.

Bon Marche, The: *See*—
Allied Stores Corporation.

Bronson, S. Davis, New York, N. Y. Spectacles, eyeglasses and lenses therefor. Serial No. 489,253; July 9. Class 26.

Brooks Brothers, New York, N. Y. Shaving soap. Serial No. 479,916; July 9. Class 4.

Burklin Process Company, Inc., Bethesda, Md. Soap for cleaning and shampooing rugs and upholstery. Serial No. 493,319; July 9. Class 4.

Careskey, James L., Seattle, Wash. Periodical publication. Serial No. 488,638; July 9. Class 38.

Cauchaner, David, Buenos Aires, Argentina. Perfumed soaps. Serial No. 463,146; July 9. Class 4.

Causo, Peter, doing business as Causo Trading Company, New York, N. Y. Insecticides. Serial No. 492,032; July 9. Class 6.

Causo Trading Company: *See*—
Causo, Peter.

Cavalcade Beauty Preparations Limited, London, England. After shaving lotion, eau de cologne, bath essence, etc. Serial No. 484,085; July 9. Class 6.

Climax Industries, Inc., assignee: *See*—
General Finance Corporation.

Clover Manufacturing Company, The, Norwalk, Conn. Abrasive compounds. Serial No. 491,401; July 9. Class 4.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Coconut oil fatty acid monoester of glycerol, etc. Serial No. 493,661; July 9. Class 6.

Coolidge, Eugene C., doing business as Atomic Manufacturing Company, Oakland, Calif. Metal, glass, porcelain, and lacquer polish. Serial No. 495,273; July 9. Class 4.

Cosa Corporation, New York, N. Y. Watches. Serial No. 484,483; July 9. Class 27.

Cosmos International Corporation, New York, N. Y. Tablets taken internally. Serial No. 499,208; July 9. Class 6.

Craig, James,—California, Los Angeles, Calif. Dresses for the use of women, misses, and girls. Serial No. 479,423; July 9. Class 39.

Crestoak Products Corporation, New York, N. Y. Preparations for mothproofing textile materials. Serial No. 499,398; July 9. Class 6.

Crestoak Products Corporation, New York, N. Y. Combined mothproofing and dry-cleaning compositions. Serial No. 499,399; July 9. Class 6.

De Botelho, Martin, assignor to Alexa, Inc., New York, N. Y. Perfumes. Serial No. 473,312; July 9. Class 6.

Dejur-Amsco Corporation, Long Island City, N. Y. Photographic enlargers and accessories. Serial No. 487,703; July 9. Class 26.

Desprez, Jean, Paris, France. Perfumes and rouges. Serial No. 494,040; July 9. Class 6.

Devonshire, Inc., New York, N. Y. Ladies' and misses' dresses. Serial No. 497,298; July 9. Class 39.

Dey Brothers & Company: *See*—
Allied Stores Corporation.

Dyna Tackle Company, Dallas, Tex. Artificial casting lures and fly rod lures. Serial No. 499,126; July 9. Class 22.

Eaton Manufacturing Company, Cleveland, Ohio. Heat, wear, corrosion, and erosion resistant metallic alloys, and welding rods. Serial No. 494,825; July 9. Class 14.

Edin, Anna, doing business as Edin & Co., Minneapolis, Minn. Roach powders and other insecticides. Serial No. 497,018; July 9. Class 6.

Edin & Co.: *See*—
Edin, Anna.

Eggers Fabric Company, New York, N. Y. Coated fabrics. Serial Nos. 485,336–7; July 9. Class 50.

Elars Products, Inc., Richmond, Va. Antiseptic mouth wash and gargle, tooth paste and tooth powder. Serial No. 490,882; July 9. Class 6.

Elizabeth Hat Company, New York, N. Y. Ladies' and misses' hats. Serial No. 487,181; July 9. Class 39.

El Paraiso de Purua, Fuentes Termales, S. A., Mexico City, Mex. Toilet beauty and perfumery articles. Serial No. 494,432; July 9. Class 6.

El Paraiso de Purua, Fuentes Termales, S. A., Mexico City, Mex. Toilet beauty and perfumery articles. Serial No. 494,435; July 9. Class 6.

Emmy Bouquet Laboratory: *See*—
Mayer, Emmy.

Evergreen Corporation of Philadelphia, Philadelphia, Pa. Knitted sweaters. Serial No. 492,262; July 9. Class 39.

Gellin Co., The, Cleveland, Ohio. Floor wax. Serial No. 487,836; July 9. Class 16.

General Finance Corporation, assignor to Climax Industries, Inc., Chicago, Ill. Rotary plow. Serial No. 485,949; July 9. Class 23.

General Gummed Products, Inc., New York, N. Y. Paper tape. Serial No. 491,641; July 9. Class 37.

Gordon Service, Detroit, Mich. Various mineral and vitamin preparations. Serial No. 491,195; July 9. Class 6.

Haas-Miller Corporation, Philadelphia, Pa. Dispersed synthetic rubber. Serial No. 494,066; July 9. Class 6.

Harrower Laboratory, Inc., Glendale, Calif. Preparation of glucosides from digitalis lanata. Serial No. 493,441; July 9. Class 6.

Herfort, Frank, Canning Co., Inc., Baraboo, Wis. Shelled nuts. Serial No. 500,039; July 9. Class 46.

Horton & Converse, Los Angeles, Calif. Aqueous suspension of microcrystalline sulfathiazole for tropical use. Serial No. 493,872; July 9. Class 6.

Houseware Products Company: *See*—
Pitts, Shelby D.

Hritzay, Paul, Edinboro, Pa. Liniment useful in the treatment of rheumatism. Serial No. 494,449; July 9. Class 6.

International Braid Company, Providence, R. I. Lamp and candle wicks. Serial No. 496,241; July 9. Class 34.

Just Company, The: *See*—
Agron, Jack H.

Kellogg Company, Battle Creek, Mich. Animals and poultry feeds. Serial No. 477,332; July 9. Class 46.

Kern, Louis M., assignor to Tikern Corporation, New York, N. Y. Photographic equipment. Serial No. 479,435; July 9. Class 26.

Leitz, E., Inc., New York, N. Y. Microscope and camera. Serial No. 468,455; July 9. Class 26.

Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Men's and boys' topcoats and overcoats and suits. Serial No. 490,498; July 9. Class 39.
Lixso Products Co.: *See*—
Waldstein, Sidney.
Loy, D. M., Manufacturing Company: *See*—
Loy, Dewey M.
Loy, Dewey M., doing business as D. M. Loy Manufacturing Company, Fountain City, Tenn. Picture frames. Serial No. 499,255; July 9. Class 32.
Lusk, Irving, Inc., New York, N. Y. Men's and women's top coats, rain coats, rain capes, etc. Serial No. 495,178; July 9. Class 39.
Marco Bergman Co., New York, N. Y. Hair nets. Serial No. 493,161; July 9. Class 39.
Marshmallow Products: *See*—
Arbino, John.
Mayer, Emmy, doing business as Emmy Bouquet Laboratory, San Francisco, Calif. After shave lotion. Serial No. 477,746; July 9. Class 6.
McQuay-Norris Manufacturing Company, St. Louis, Mo. Engine bearings. Serial No. 485,876; July 9. Class 23.
Mercury Clutch Corporation, Canton, Ohio. Centrifugally actuated radial, axial, automatic, manually controlled and delayed engagement clutches, etc. Serial No. 489,338; July 9. Class 23.
Minneapolis Star Journal and Tribune Company, Minneapolis, Minn. Regularly issued Sunday paper. Serial No. 484,851; July 9. Class 38.
Molded Insulation Company, Philadelphia, Pa. Radio home receiving sets. Serial No. 495,322; July 9. Class 21.
Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. Serial No. 491,110; July 9. Class 1.
Nancy Ann Dressed Dolls, assignor to Nancy Ann Storybook Dolls, Inc., San Francisco, Calif. Dressed dolls. Serial No. 483,078; July 9. Class 22.
Nancy Ann Storybook Dolls, Inc., assignee: *See*—
Nancy Ann Dressed Dolls.
Nardau, Limited, New York, N. Y. Perfumes, toilet water, lipsticks, etc. Serial No. 495,399; July 9. Class 6.
National Biscuit Company, New York, N. Y. Toy buildings, monuments, trees, etc. Serial No. 490,958; July 9. Class 22.
National Trading Company, Inc., Hickory, N. C. Air condition units. Serial No. 487,563; July 9. Class 34.
National Trading Company, Inc., Hickory, N. C. Tractor and truck trailers. Serial No. 487,567; July 9. Class 19.
Neilson Chemical Company, Detroit, Mich. Chemical and detergent preparation. Serial No. 489,918; July 9. Class 6.
New Standard Corporation, Mount Joy, Pa. Pick-up rakes. Serial No. 495,089; July 9. Class 23.
New York Air Brake Company, The, Watertown, N. Y. Master cylinders. Serial No. 495,555; July 9. Class 23.
Pacific Gamble Robinson Co., Seattle, Wash. Fresh roasted peanuts. Serial No. 489,980; July 9. Class 46.
Phillips Pharmaceutical Products, Inc., Darien, Conn. Liniments to be applied externally. Serial No. 494,629; July 9. Class 6.
Pillsbury Flour Mills Company, Minneapolis, Minn., now by merger Pillsbury Mills, Inc. Pancake flour, buckwheat, wheat, and corn pancake flour, etc. Serial No. 474,354; July 9. Class 46.
Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.
Pitts, Shelby D., doing business as Houseware Products Company, Chicago, Ill. Surface coverings. Serial No. 483,831; July 9. Class 16.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Window units. Serial No. 497,563; July 9. Class 12.
Pollak Steel Company, The, Cincinnati, Ohio. Rolled steel bars and all merchant shapes. Serial No. 490,258; July 9. Class 14.
Price Hill Laboratory: *See*—
Sanchez, Ramiro.
Prince Matchabelli, Inc., New York, N. Y. Lipsticks. Serial No. 495,249; July 9. Class 6.
Purity Cheese Company, Mayville, Wis. Cheese. Serial No. 482,440; July 9. Class 46.
Quackenbush Company: *See*—
Allied Stores Corporation.
Quartaroli, R. J., doing business as Stanislaus Canning Company, Modesto, Calif. Canned foods. Serial No. 482,763; July 9. Class 46.
Ragle, J. M., doing business as J. M. Ragle Industries, Kansas City, Mo. Welding rods. Serial No. 492,460; July 9. Class 14.
Ragle, J. M., Industries: *See*—
Ragle, J. M.
Rapid Sportswear Co., New York, N. Y. Ladies' raincoats. Serial No. 497,333; July 9. Class 39.
Revoc, Inc., New York, N. Y. Articles made of glass. Serial No. 488,374; July 9. Class 33.
Rhine Undergarment Company, New York, N. Y. Panties, slips, and polo shirts for ladies and children. Serial No. 490,546; July 9. Class 39.
Rice, Charles A., doing business as Automic Cleaner-Polish Co., Buffalo, N. Y. Combined cleaner and polish. Serial No. 489,763; July 9. Class 16.
Richard & Smith, Sunset, La. Fresh sweet potatoes. Serial No. 495,407; July 9. Class 46.
Rustless Iron & Steel Corporation, Baltimore, Md., assignor to The American Rolling Mill Company, Middletown, Ohio. Alloy steel and corrosion-resisting alloy steel. Serial No. 485,699; July 9. Class 14.
Sanchez, Ramiro, doing business as Price Hill Laboratory, Cincinnati, Ohio. General hair tonic and scalp and skin conditioner. Serial No. 494,800; July 9. Class 6.
Sani-Mode Mfg. Co., assignor to Sani-Mode Mfg. Co., Chicago, Ill. Shower bath curtains, and accessories therefor. Serial No. 494,129; July 9. Class 13.
Sanitary Soap Co., Paterson, N. J. Disinfectant and deodorant having incidental cleaning properties. Serial No. 489,533; July 9. Class 6.
Sawdon Company, The, New York, N. Y. Envelopes. Serial No. 488,709; July 9. Class 37.
Smith, E. W., Chemical Co.: *See*—
Smith, Emmet W.
Smith, Emmet W., doing business as E. W. Smith Chemical Co., Los Angeles, Calif. Boiler water treating compounds. Serial No. 494,801; July 9. Class 6.
Societe de Financement Industriel et Commercial, Paris, France. Pharmaceutical preparations. Serial No. 489,421; July 9. Class 6.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Ready-mixed paints, varnishes, paint enamels, etc. Serial No. 490,264; July 9. Class 16.
Southern Lacquers & Coatings Company, Miami, Fla. Coating materials. Serial No. 492,802; July 9. Class 16.
Southern Supply Co., Pasadena, Calif. Cleaning guns. Serial No. 486,506; July 9. Class 23.
Sporting Goods, Inc., Springfield, Mass. Golf balls and golf clubs. Serial No. 499,354; July 9. Class 22.
Stanislaus Canning Company: *See*—
Quartaroli, R. J.
Symphonic Radio and Electronic Corporation, Cambridge, Mass. Radio receiving sets. Serial No. 494,468; July 9. Class 21.
Tikern Corporation, assignee: *See*—
Kern, Louis M.
Tower Company, Inc., The, Seattle, Wash. Fabric material. Serial No. 479,957; July 9. Class 44.
Tower Grove Foundry, Division of Laclede Stoker Company, St. Louis, Mo. Iron castings. Serial No. 491,140; July 9. Class 14.
United States News Publishing Corporation, Washington, D. C. Section of periodical publication. Serial No. 495,770; July 9. Class 38.
United States Radium Corporation, New York, N. Y. Static eliminators. Serial No. 495,347; July 9. Class 21.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 497,515; July 9. Class 6.
Wagner, Chas. P., & Bro.: *See*—
Wagner, Wiltz W.
Wagner, Wiltz W., doing business as Chas. P. Wagner & Bro., New Orleans, La. Barbecue sauce, tomato catsup, tomato sauce, etc. Serial No. 480,430; July 9. Class 46.
Waldstein, Sidney, doing business as Lixso Products Co., New York, N. Y. Soap. Serial No. 494,295; July 9. Class 4.
Wallace & Co., Brooklyn, N. Y. Candies and chocolates. Serial No. 475,784; July 9. Class 46.
Washburn, F. B., Candy Corporation, Brockton, Mass. Candy. Serial No. 492,298; July 9. Class 46.
Western Produce Co., Torrington, Wyo. Potatoes. Serial No. 486,552; July 9. Class 46.
Winthrop Chemical Company, Inc., New York, N. Y. Liver, iron, and vitamin B-complex preparation. Serial No. 498,263; July 9. Class 6.
Wittig, Albert, New York, N. Y., assignor to American Sacol Company, Lynn, Mass. Liquid containing mainly methylene chloride. Serial No. 491,444; July 9. Class 16.
Wollensak Optical Company, Rochester, N. Y. Photographic lenses. Serial Nos. 495,851–2; July 9. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

AAA-1 Products Company: *See*—
Slovak, Ben.
Aberfoyle Mfg. Co., Chester, Pa. Staple and novelty cotton piece goods, shirtings, artificial silk fabrics, etc. 216,353; renewed Aug. 10, 1946. O. G. July 9. Class 42.
Acme Spark Plug Company: *See*—
Motor Master Products Corporation.
Aircraft Screw Products Company, Inc., Long Island City, N. Y. Screw connections and parts of screw connections. 422,228; July 9; Serial No. 491,744; published Apr. 16, 1946. Class 13.
Airlite Mfg. Co., Emporium, Pa. Stationary reel carrying apparatus. 422,144; July 9; Serial No. 466,389; published Apr. 2, 1946. Class 21.

Airo Products, Los Angeles, Calif. Tool holders. 422,162; July 9; Serial No. 477,680; published Apr. 16, 1946. Class 23.
Aktiebolaget Archimedes, Sundbyberg, Sweden. Internal combustion outboard motors and accessories for such motors. 422,151; July 9; Serial No. 473,841; published Apr. 16, 1946. Class 23.
Allen, C. S., Corporation, Brooklyn, N. Y., to C. S. Allen Corporation, Webster, Mass. Candies. 216,382; renewed Aug. 10, 1946. O. G. July 9. Class 46.
Allied Chemical & Dye Corporation: *See*—
Barrett Manufacturing Company.
Eastern Granite Roofing Company, The.
Warren Chemical & Manufacturing Company.
Aluminum Goods Mfg. Co., Manitowoc, Wis. Aluminum cooking utensils. 422,215; July 9; Serial No. 490,617; published Apr. 16, 1946. Class 13.
American Cystoscope Makers, Inc., New York, N. Y. Surgical instruments. 422,238; July 9; Serial No. 493,906; published Apr. 23, 1946. Class 44.
American Oil Company, The, Baltimore, Md. Lubricating oils and greases. 422,204; July 9; Serial No. 488,985; published Apr. 16, 1946. Class 15.
American Safety Razor Corporation, Brooklyn, N. Y. Perfumery. 422,272; July 9. Class 6.
American Screw Company, Providence, R. I. Screws, bolts, nuts, etc. 53,739; re-renewed June 12, 1946. O. G. July 9. Class 18.
American Silver Company, The, Bristol, to International Silver Company, Meriden, Conn. Silver hollow ware, flat ware, and tableware. 55,017; re-renewed Aug. 7, 1946. O. G. July 9. Class 28.
American Tissue Mills, Holyoke, Mass. Crepe paper. 214,122; renewed June 15, 1946. O. G. July 9. Class 37.
Antikamnia Remedy Company, The, St. Louis, Mo., to Lafayette Drug Co., Inc., Jersey City, N. J. Medicinal tablets. 216,663; renewed Aug. 17, 1946. O. G. July 9. Class 6.
Apex Electrical Manufacturing Co., The, Cleveland, Ohio. Electric vacuum cleaners. 422,190; July 9; Serial No. 486,639; published Apr. 16, 1946. Class 21.
Argus, Incorporated, Ann Arbor, Mich. Radio equipment. 422,152; July 9; Serial No. 473,927; published Apr. 2, 1946. Class 21.
Arkansas City Flour Mills, The: *See*—
Plant, Geo. P., Milling Company.
Armstrong Cork Company: *See*—
Armstrong Cork & Insulation Company.
Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Bottle and prescription corks. 55,475; re-renewed Aug. 14, 1946. O. G. July 9. Class 50.
Armstrong Cork & Insulation Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Mastic finish for heat-insulating material. 216,512; renewed Aug. 10, 1946. O. G. July 9. Class 12.
Automatic Burner Corporation, Chicago, Ill. Fuel oil burners. 422,233; July 9; Serial No. 492,483; published Apr. 16, 1946. Class 34.
Ayres, William, & Sons, to William Ayres & Sons, Philadelphia, Pa. Horse-blankets. 55,341; re-renewed Aug. 14, 1946. O. G. July 9. Class 3.
Babbitt, B. T., Inc.: *See*—
Mendleson's, A., Sons.
Babcock, A. P., Company, New York, N. Y., to A. P. Babcock Company, Rutherford, N. J. Deodorants. 215,827; renewed July 27, 1946. O. G. July 9. Class 6.
Babcock & Wilcox Company, The, New York, N. Y. Complete steam generating units, steam boilers, air heaters, etc. 422,229; July 9; Serial No. 491,800; published Apr. 23, 1946. Class 34.
Baker, Dorothy, Sportswear, Inc., New York, N. Y. Ladies' playsuits, jumpers, dresses, etc. 422,285; July 9. Class 39.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Building, roofing, and sheathing paper. 50,846; re-renewed Apr. 3, 1946. O. G. July 9. Class 12.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Tar and pitch. 51,166; re-renewed Apr. 3, 1946. O. G. July 9. Class 1.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Roofing-felt. 51,437; re-renewed Apr. 17, 1946. O. G. July 9. Class 12.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Coal-tar paint. 53,997; re-renewed June 19, 1946. O. G. July 9. Class 16.
Barricini Inc., Long Island City, N. Y. Boxes, containers, and packages filled with mixed candy, nuts and dried fruits, etc. 422,153; July 9; Serial No. 474,317; published Apr. 16, 1946. Class 46.
Bastian-Morley Co., to Bastian-Morley Co., Inc., La Porte, Ind. Temperature-control devices for water heaters. 214,362; renewed June 22, 1946. O. G. July 9. Class 26.
Bastian-Morley Co., Inc.: *See*—
Bastian-Morley Co.
Baxter, H. C., & Bro., Brunswick, Maine. Canned vegetables. 214,352; renewed June 22, 1946. O. G. July 9. Class 46.
Beacon Steel Products Co., Westminster, Md. Ventilators. 422,207; July 9; Serial No. 489,638; published Apr. 16, 1946. Class 34.
Bealmann, J., Manufacturing Chemist, San Francisco, Calif. Cold cream, cleansing cream, face powder, etc. 212,904; renewed May 18, 1946. O. G. July 9. Class 6.
Beck, Ruth A., doing business as F. I. Blake Co., Worcester, Mass. Putty knives and scrapers. 422,184; July 9; Serial No. 485,810; published Apr. 16, 1946. Class 23.
Bendix Aviation Corporation: *See*—
Eclipse Machine Co.
Benzo-Gas Motor Fuel Company, Kansas City, Mo., to Phillips Petroleum Company, Bartlesville, Okla. Gasoline. 213,685; renewed June 1, 1946. O. G. July 9. Class 15.
Best & Co. Inc., New York, N. Y. Jewelry for personal wear, not including watches; silver dresser sets, and silver tableware. 212,762; renewed May 11, 1946. O. G. July 9. Class 28.
Best & Co. Inc., New York, N. Y. Nursery furniture. 212,790; renewed May 11, 1946. O. G. July 9. Class 32.
Best & Co. Inc., New York, N. Y. Hats, shoes, slippers, etc. 212,791; renewed May 11, 1946. O. G. July 9. Class 39.
Best & Co. Inc., New York, N. Y. Fur skins, hides, and pelts. 213,256; renewed May 25, 1946. O. G. July 9. Class 1.
Bischoff, Frederick, New York, N. Y., to Standard Homeopathic Globule & Disk Co. Inc., Brooklyn, N. Y. Pure cane-sugar globules, absorbent sugar disks, and refined sugar-of-milk tablets. 55,885; re-renewed Aug. 21, 1946. O. G. July 9. Class 6.
Blackhawk Mfg. Co., Milwaukee, Wis. Hydraulic power units. 422,172; July 9; Serial No. 482,459; published Apr. 16, 1946. Class 23.
Blake, F. I., Co.: *See*—
Beck, Ruth A.
Bohemian Distributing Company, Los Angeles, Calif. Brandy. 422,178; July 9; Serial No. 484,662; published Apr. 2, 1946. Class 49.
Booth Packing Company, The, to Gibbs & Company, Incorporated, Baltimore, Md. Canned fruits and vegetables. 54,410; re-renewed June 26, 1946. O. G. July 9. Class 46.
Bound Brook Oil-Less Bearing Company, Bound Brook, N. J. Machinery bearings, bushings for mechanical working joints and machine parts. 422,180; July 9; Serial No. 485,002 published Apr. 9, 1946. Class 23.
Brand & Oppenheimer Incorporated, New York, N. Y. Cotton piece goods. 214,041; renewed June 8, 1946. O. G. July 9. Class 42.
British Belting & Asbestos Ltd., London, England. Impregnated asbestos material. 210,152; renewed Mar. 9, 1946. O. G. July 9. Class 35.
Brook, Jonas, & Bros., Limited, Meltham, England, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J. Cotton thread. 54,236; re-renewed June 26, 1946. O. G. July 9. Class 43.
Brook, Jonas, & Bros., Limited, Meltham, England, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J. Cotton yarn, sewing-cotton, and crochet-cotton, etc. 54,336; re-renewed June 26, 1946. O. G. July 9. Class 43.
Brook, Jonas, & Bros., Limited, Meltham, England, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J. Cotton thread. 54,666; re-renewed June 26, 1946. O. G. July 9. Class 43.
Brook, Jonas, & Bros. (U. S. A.), Inc: *See*—
Brook, Jonas, & Bros., Limited.
Brown, David S., New York, N. Y., to The Procter & Gamble Company, Cincinnati, Ohio. Washing-powder. 54,771; re-renewed July 31, 1946. O. G. July 9. Class 4.
Buffalo Weaving & Belting Co., Buffalo, N. Y. Woven trunk straps, woven razor strops, woven skate straps, etc. 211,403; renewed Apr. 13, 1946. O. G. July 9. Class 3.
Bullard, E. D., Company, San Francisco, Calif. Electrode holders, electrical insulators, receptacles. 422,160; July 9; Serial No. 477,177; published Apr. 9, 1946. Class 21.
Burgess Battery Company, Freeport, Ill. Golf game including balls and propelling apparatus therefor. 422,261; July 9. Class 22.
Burrus Mill & Elevator Company, The, Fort Worth, Tex., to Tex-O-Kan Flour Mills Co., Dallas, Tex. Wheat-flour. 55,938; re-renewed Aug. 21, 1946. O. G. July 9. Class 46.
Bushnell Company, The: *See*—
Bushnell, W. F. T., Company, The.
Bushnell, W. F. T., Company, The, to The Bushnell Company, Aberdeen, S. Dak. Magazine or periodical. 55,444; re-renewed Aug. 14, 1946. O. G. July 9. Class 38.
C-Y Laboratories, Pulaski, Tenn., to C-Y Laboratories, Inc., Memphis, Tenn. Medicine for cystitis. 215,174; renewed July 13, 1946. O. G. July 9. Class 6.
C-Y Laboratories, Inc.: *See*—
C-Y Laboratories.

Cappio, Peter, doing business as Relax-Spray Company, Flushing, N. Y. Hose supports. 422,197; July 9; Serial No. 487,502; published Apr. 16, 1946. Class 13.
Carbonell & Co. (S. en C.), to Carbonell y Compañia de Cordoba S. A., Cordoba, Spain. Soaps. 215,740; renewed July 27, 1946. O. G. July 9. Class 4.
Carbonell & Co. (S en C.), to Carbonell y Compañia de Cordoba S. A., Cordoba, Spain. Pure olive oils. 215,741; renewed July 27, 1946. O. G. July 9. Class 46.
Carbonell y Compañia de Cordoba S. A.: *See*—
Carbonell & Co. (S. en C.)
Carlay Company, The: *See*—
Futter, Carl A.
Carmichael, Leslie R., Shaker Heights, Ohio. Trolling spoons. 422,248; July 9; Serial No. 494,258; published Apr. 23, 1946. Class 22.
Case-Swayne Company, Santa Ana, Calif. Baked beans with pork. 422,216; July 9; Serial No. 490,636; published Apr. 23, 1946. Class 46.
Cerruti & Cominelli, New York, N. Y. Cheese. 422,281; July 9. Class 46.
Chatillon, John, & Sons, New York, N. Y. Dynamo-meters, thermometers, beam scales, etc. 216,421; renewed Aug. 10, 1946. O. G. July 9. Class 26.
Chestnut Farms-Chevy Chase Dairy Company: *See*—
Wise Brothers.
Chocolat Suchard Société Anonyme: *See*—
Russ-Suchard & Cie.
Church & Dwight Company, to Church & Dwight Co. Inc., New York, N. Y. Soda and saleratus, baking powder and sal-soda. 53,665; re-renewed Aug. 21, 1946. O. G. July 9. Classes 6 and 46.
Church & Dwight Co. Inc.: *See*—
Church & Dwight Company.
Cities Service Oil Company, Cleveland, Ohio, to Cities Service Oil Company, Bartlesville, Okla. Lubricating oils. 216,373; renewed Aug. 10, 1946. O. G. July 9. Class 15.
Clark Mile-End Spool Cotton Co., The, East Newark, to The Clark Thread Company, Newark, N. J. Cotton thread. 54,443; renewed June 26, 1946. O. G. July 9. Class 43.
Clark Thread Company, The: *See*—
Clark Mile-End Spool Cotton Co., The.
Clark Thread Company, The, Newark, N. J. Cotton threads. 54,654; re-renewed June 26, 1946. O. G. July 9. Class 43.
Cleaver-Brooks Company, Milwaukee, Wis. Power operated mechanical pumps. 422,167; July 9; Serial No. 480,129; published Apr. 16, 1946. Class 23.
Coats, J. & P. (R. I.), Inc., Pawtucket, R. I. Artificial silk in small skeins. 215,775; renewed July 27, 1946. O. G. July 9. Class 43.
Columbian Steel Tank Company, Kansas City, Mo. Rectangular galvanized steel pans; funnels; welded pipe; etc. 422,158; July 9; Serial No. 476,239; published Apr. 16, 1946. Class 13.
Columbian Steel Tank Company, Kansas City, Mo. Feed cookers for farms, steam tables, tank heaters, etc. 422,164; July 9; Serial No. 478,500; published Apr. 16, 1946. Class 34.
Commander-Larabee Milling Company: *See*—
Commander Mill Company.
Larabee, F. S. & F. D.
Larabee Flour Mills Corporation, The.
Commander Mill Company, to Commander-Larabee Milling Company, Minneapolis, Minn. Semolinas, durum feed and durum flour, etc. 213,624; renewed June 1, 1946. O. G. July 9. Class 46.
Connecticut Valley Paper & Envelope Co., Inc., New York, N. Y. Bond paper. 215,139; renewed July 13, 1946. O. G. July 9. Class 37.
Cook, George H., doing business as Cook's Products Company, Boston, Mass. Package food products, macaroni. 422,254; July 9. Class 46.
Cook's Products Company: *See*—
Cook, George H.
Corning Glass Works, New York, N. Y. Nursing bottles. 422,249; July 9; Serial No. 494,260; published Apr. 23, 1946. Class 44.
Coro, Inc., New York, N. Y. Compacts for containing cosmetics. 422,239; July 9; Serial No. 494,032; published Apr. 23, 1946. Class 2.
Dart, Robert H., Sacramento, Calif. Fresh deciduous fruits. 422,166; July 9; Serial No. 480,049; published June 12, 1945. Class 46.
De Cabanas, H., y Carbajal: *See*—
Murias, J. S., y Ca.
Delapenha, R. U., & Co., Inc., New York, N. Y. Rum. 422,148; July 9; Serial No. 470,968; published Apr. 2, 1946. Class 49.
De Long Hook and Eye Company, The: *See*—
De Long Hook & Eye Company, The.
De Long Hook & Eye Company, The, to The De Long Hook and Eye Company, Philadelphia, Pa. Hooks and eyes. 55,056; re-renewed Aug. 7, 1946. O. G. July 9. Class 40.
Dempster Mill Manufacturing Company, Beatrice, Nebr. Windmills and repair and replacement parts therefor. 213,320; renewed May 25, 1946. O. G. July 9. Class 23.
Diamond K. Vineyards: *See*—
Kasparian, G. M.
Dixie-Portland Flour Company: *See*—
Plant, Geo. P., Milling Company.
Dobeckmun Company, The, Cleveland, Ohio. Reinforced laminated transparent film. 422,230; July 9; Serial No. 491,811; published Apr. 23, 1946. Class 50.
Domestic Chemical Company: *See*—
Lancaster, William F.
Dubon Company: *See*—
Fraering Brokerage Co. Inc.
Du Pont, E. I., de Nemours and Company: *See*—
Harrison Bros. & Co.
Durex Abrasives Corporation: *See*—
Nogues, Frank.
Early, Earl J., Drexel Hill, Pa. Drawing instruments. 422,214; July 9; Serial No. 490,584; published Apr. 16, 1946. Class 26.
Easterling Company, The, Chicago, Ill. Sterling silver flatware and hollow ware. 422,262; July 9. Class 28.
Eastern Amplifier Corporation, New York, N. Y. Radio-receiving sets, radio-transmitting sets, television-receiving sets, etc. 422,170; July 9; Serial No. 481,273; published Apr. 16, 1946. Class 21.
Eastern Granite Roofing Company, The, to Allied Chemical & Dye Corporation, New York, N. Y. Roofing consisting of flexible sheets of waterproof material. 53,656; re-renewed June 12, 1946. O. G. July 9. Class 12.
Eclipse Machine Co., to Bendix Aviation Corporation, Elmira Heights, N. Y. Back-pedaling coaster-brakes and parts thereof. 54,705; re-renewed June 26, 1946. O. G. July 9. Class 19.
Elbe File & Binder Co. Inc.: *See*—
Elbe File & Binder Company, Inc.
Elbe File & Binder Company, Inc., New York, N. Y., to Elbe File & Binder Co. Inc., Fall River, Mass. Stationers' supplies. 214,100; renewed June 15, 1946. O. G. July 9. Class 37.
Elevator Supplies Company, Inc.: *See*—
Elevator Supplies Co., Inc.
Elevator Supplies Co., Inc., Hoboken, to Elevator Supplies Company, Inc., Perth Amboy, N. J. Electric position indicator. 214,612; renewed June 29, 1946. O. G. July 9. Class 21.
Era Watch Co. Limited C. Rüefli-Flury & Co.: *See*—
Montres Era & Viso, C. Rüefli-Flury & Cie Société Anonyme.
Eureka Fire Hose Co., Jersey City, N. J., to United States Rubber Company, New York, N. Y. Cotton rubber-lined hose. 51,708; re-renewed Apr. 24, 1946. O. G. July 9. Class 35.
Eureka Fire Hose Co., Jersey City, N. J., to United States Rubber Company, New York, N. Y. Cotton rubber-lined hose. 51,886; re-renewed Apr. 24, 1946. O. G. July 9. Class 35.
Eureka Vacuum Cleaner Company, now by change of name Eureka Williams Corporation, Detroit, Mich. Distributors. 422,143; July 9; Serial No. 461,687; published Apr. 16, 1946. Class 23.
Eureka Vacuum Cleaner Company, now by change of name Eureka Williams Corporation, Detroit, Mich. Carpet sweeping and beating brush. 422,159; July 9; Serial No. 476,359; published Apr. 16, 1946. Class 23.
Eureka Williams Corporation: *See*—
Eureka Vacuum Cleaner Company.
Exolon Company, The, Blasdell, to The Exolon Company, Tonawanda, N. Y. Refractory materials, particularly artificial mullite. 214,323; renewed June 22, 1946. O. G. July 9. Class 12.
Fairbanks, E. and T., and Company, St. Johnsbury, Vt., to Fairbanks, Morse & Co., Chicago, Ill. Weighing machines and parts thereof. 51,226; re-renewed Apr. 10, 1946. O. G. July 9. Class 26.
Fairbanks, E. and T., and Company, St. Johnsbury, Vt., to Fairbanks, Morse & Co., Chicago, Ill. Weighing-scales and appurtenances thereof. 55,449; re-renewed Aug. 14, 1946. O. G. July 9. Class 26.
Fairbanks, Morse & Co.: *See*—
Fairbanks, E. and T., and Company.
Farmco, Incorporated, Jersey City, N. J., and New York, N. Y. Gas water heaters. 422,211; July 9; Serial No. 490,111; published Apr. 23, 1946. Class 34.
Fashion Forecast, Los Angeles, Calif. Women's dresses. 422,279; July 9. Class 39.
Fennville Canning Co., Fennville, to Michigan Fruit Canners, Inc., Benton Harbor, Mich. Canned fruits, canned vegetables, ad canned berries. 216,389; renewed Aug. 10, 1946. O. G. July 9. Class 46.
Fennville Canning Co., Fennville, to Michigan Fruit Canners, Inc., Benton Harbor, Mich. Canned fruits, canned vegetables, and canned berries. 216,389; renewed Aug. 10, 1946. O. G. July 9. Class 46.
Fields, Edward S., doing business as Fields Manufacturing Company, Morgantown, W. Va. Mine or timber jacks. 422,194; July 9; Serial No. 487,249; published Apr. 2, 1946. Class 23.
Fields Manufacturing Company: *See*—
Fields, Edward S.
Fischer, Chas., Spring Co., The, Brooklyn, N. Y. Metal household utensils. 216,524; renewed Aug. 10, 1946. O. G. July 9. Class 13.

Fisk Rubber Company, The, Chicopee Falls, Mass., to United States Rubber Company, New York, N. Y. Repair patches for pneumatic tires. 213,343; renewed May 25, 1946. O. G. July 9. Class 35.
Flavorene Company, The: *See*—
Pinkerton, Thomas O.
Foley Bros. Grocery Co., to Griggs, Cooper & Company, St. Paul, Minn. Food flavoring extracts, canned fruits, buckwheat flour, etc. 212,423; renewed May 4, 1946. O. G. July 9. Class 46.
Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 211,020; renewed Mar. 30, 1946. O. G. July 9. Class 42.
Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.
Fraering Brokerage Co. Inc., doing business as Dubon Company, New Orleans, La. Canned vegetables. 422,231; July 9; Serial No. 491,819; published Apr. 23, 1946. Class 46.
Franco American Hygienic Company, Chicago, Ill. Rouge. 422,259; July 9. Class 6.
Fuller, W. P., & Co., San Francisco, Calif. Ready-mixed paint, varnish, and paint enamel. 209,305; renewed Feb. 23, 1946. O. G. July 9. Class 16.
Futter, Carl A., doing business as The Carlay Company, Chicago, Ill. Vitaminic preparation. 422,256; July 9. Class 6.
General Foods Corporation, New York, N. Y. Coffee. 422,221; July 9; Serial No. 491,252; published Apr. 16, 1946. Class 46.
General Mills, Inc.: *See*—
Portland Flour Mills Co.
Sperry Flour Company.
Washburn-Crosby Company.
Gendron Wheel Co., The, to The Hettrick Manufacturing Company, Toledo, Ohio. Juvenile iron, wood, and all-steel coaster and express wagons, cars, automobiles, etc. 212,949; renewed May 18, 1946. O. G. July 9. Class 22.
Gibbs & Company, Incorporated: *See*—
Booth Packing Company, The.
Glassman, Joseph, doing business as J. & A. Tank Insulated Lining Co., Hartford, Conn. Cementitious lining material. 422,205; July 9; Serial No. 488,998; published Apr. 16, 1946. Class 12.
Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa. Automatic fire sprinkler apparatus. 422,209; July 9; Serial No. 489,863; published Apr. 16, 1946. Class 13.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Ink rolls. 422,186; July 9; Serial No. 486,106; published Apr. 16, 1946. Class 23.
Gorham Rubber Company, San Francisco, Calif., to United States Rubber Company, New York, N. Y. Rubber belting. 52,068; re-renewed May 1, 1946. O. G. July 9. Class 35.
Gorham Rubber Company, San Francisco, Calif., to United States Rubber Company, New York, N. Y. Rubber hose. 54,550; re-renewed June 26, 1946. O. G. July 9. Class 35.
Graebner, Bertha M., San Antonio, Tex. Fortune telling cards. 422,237; July 9; Serial No. 493,062; published Apr. 23, 1946. Class 22.
Grand Rapids Show Case Company, to Grand Rapids Store Equipment Co., Grand Rapids, Mich. Show cases. 208,741; renewed Feb. 9, 1946. O. G. July 9. Class 32.
Grand Rapids Store Equipment Co.: *See*—
Grand Rapids Show Case Company.
Greer Hydraulics, Inc., New York, N. Y. Unitary assemblies of hydraulic testing equipment. 422,145; July 9; Serial No. 468,198; published Apr. 16, 1946. Class 26.
Griggs, Cooper & Company: *See*—
Foley Bros. Grocery Co.
Grover, J. J., Shoe Company: *See*—
Grover's, J. J., Sons Company.
Grover's, J. J., Sons Company, Lynn, Mass., to J. J. Grover Shoe Company, Boston, Mass. Women's, misses', and children's shoes. 214,899; renewed June 29, 1946. O. G. July 9. Class 39.
Gruen, D., & Sons, to Gruen Watch Company, The, Cincinnati, Ohio. Watches, watchcases, and watchmovements. 55,327; re-renewed Aug. 14, 1946. O. G. July 9. Class 27.
Gruen Watch Company, The: *See*—
Gruen, D., & Sons.
Guaranize Egg Service: *See*—
Ruddell, W. A.
Guerlain Perfumery Corporation, The: *See*—
Guerlain Perfumery Corporation of New York.
Guerlain Perfumery Corporation of New York, New York, N. Y., to The Guerlain Perfumery Corporation, Wilmington, Del., and New York, N. Y. Perfumes. 216,906; renewed Aug. 24, 1946. O. G. July 9. Class 6.
Guinsburg, Edwin, to New York Merchandise Co., Inc., New York, N. Y. Swimming rings. 203,711; renewed Sept. 22, 1945. O. G. July 9. Class 22.
Hancock Oil Company of California, The: *See*—
Hancock Refining Co.
Hancock Refining Co., to The Hancock Oil Company of Californa, Long Beach, Calif. Lubricating oils and greases. 213,522; renewed June 1, 1946. O. G. July 9. Class 15.
Harrison Bros. & Co., Philadelphia, Pa., to E. I. du Pont de Nemours and Company, Wilmington, Del. Paints, stains, fillers, etc. 27,853; re-renewed Feb. 25, 1946. O. G. July 9. Class 16.
Harrison-Dillavou Co., Champaign, Ill. Pick-up reels. 422,196; July 9; Serial No. 487,468; published Apr. 16, 1946. Class 23.
Harvey Machine Co., Inc., Los Angeles, Calif. Hardware. 422,165; July 9; Serial No. 479,121; published Apr. 16, 1946. Class 13.
Havana Commercial Company, Jersey City, N. J., and New York, N. Y., to Havana Commercial Company, Trenton, N. J. Havana cigars. 55,290; re-renewed Aug. 14, 1946. O. G. July 9. Class 17.
Hawley, Hermanos, Quetzal, Guatemala. Coffee. 422,284; July 9. Class 46.
Hearn Department Stores, Inc.: *See*—
Hearn, James A., & Son, Inc.
Hearn, James A., & Son, Inc., to Hearn Department Stores, Inc., New York, N. Y. Infants' wear. 213,530; renewed June 1, 1946. O. G. July 9. Class 39.
Hearn, James A., & Son Inc., to Hearn Department Stores, Inc., New York, N. Y. Dry goods. 215,781; renewed July 27, 1946. O. G. July 9. Classes 39 and 42.
Heinrick, Sydney J., doing business as Vigo Company, Detroit, Mich. Medicinal preparation. 422,267; July 9. Class 6.
Hettrick Manufacturing Company, The: *See*—
Gendron Wheel Co., The.
Hohner, M., Inc., New York, N. Y. Mouth harmonicas and accordions. 216,782; renewed Aug. 17, 1946. O. G. July 9. Class 36.
Holland, Florence E., Brooklyn, N. Y. Muffin mix. 422,275; July 9. Class 46.
Holoplast Limited, Kent, England. Construction materials. 422,173; July 9; Serial No. 482,801; published Apr. 16, 1946. Class 12.
Hoover Company, The, North Canton, Ohio. Publication. 214,262; renewed June 15, 1946. O. G. July 9. Class 38.
Hoyt, Joseph M., to Standard Crayon Manufacturing Corporation, Danvers, Mass. Checking-crayons, school-crayons, and marking-crayons. 53,422; re-renewed June 5, 1946. O. G. July 9. Class 37.
Illinois Testing Laboratories, Inc., Chicago, Ill. Electrical temperature measuring instruments and parts thereof. 422,201; July 9; Serial No. 487,842; published Apr. 23, 1946. Class 26.
Intercontinental Audio-Video Corporation, New York, N. Y. Motion picture films and film strips. 422,226; July 9; Serial No. 491,571; published Apr. 16, 1946. Class 26.
International Harvester Company: *See*—
Parlin & Orendorff Co.
International Silver Company: *See*—
American Silver Company, The.
Interstate Cotton Oil Refining Co., Sherman, Tex. Vegetable oil shortening. 422,222; July 9; Serial No. 491,257; published Apr. 23, 1946. Class 46.
Interstate Cotton Oil Refining Co., Sherman, Tex. Vegetable oil shortening. 422,223; July 9; Serial No. 491,261; published Apr. 23, 1946. Class 46.
J. & A. Tank Insulated Lining Co.: *See*—
Glassman, Joseph.
Jabsco Pump Company, Beverly Hills, Calif. Water pumps. 422,191; July 9; Serial No. 486,777; published Apr. 2, 1946. Class 23.
Jackson Lumber Harvester, Inc., Eau Claire, Wis. Saw mills. 422,189; July 9; Serial No. 486,578; published Apr. 16, 1946. Class 23.
Jay Dee Drug Co., Chicago, Ill. Cosmetic preparations. 422,290; July 9. Class 6.
Jelke, John F., Company, Chicago, Ill. Oleomargarine. 214,960; renewed July 6, 1946. O. G. July 9. Class 46.
Jelke, John F., Company, Chicago, Ill. Oleomargarine. 215,341; renewed July 13, 1946. O. G. July 9. Class 46.
Johnson Woolen Mills, Inc.: *See*—
Pearl, I. L., & Co.
Kasparian, G. M., to Diamond K. Vineyards, Exeter, Calif. Fresh grapes. 213,073; renewed May 18, 1946. O. G. July 9. Class 46.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Ladies' and misses' coats, suits, gowns, etc. 209,741; renewed Mar. 2, 1946. O. G. July 9. Class 39.
Keller, Adolph, Glendale, Mo. Window attachable pulley and cord hoists. 422,163; July 9; Serial No. 477,933; published Apr. 16, 1946. Class 23.
Kennedy, Verne C., Chicago, Ill. Electrical generators and motors and parts thereof. 422,156; July 9; Serial No. 475,856; published Apr. 9, 1946. Class 21.
Koral Electric Mfg. Co.: *See*—
Koral, Morris.
Koral, Morris, doing business as Koral Electric Mfg. Co., Long Island City, N. Y. Electric steam radiators and electric irons. 422,198; July 9; Serial No. 487,560; published Apr. 16, 1946. Class 21.
Lafayette Drug Co., Inc.: *See*—
Antikamnia Remedy Company, The.
Laird, R. H., Manufacturing Company, Inc., New York, N. Y. Liquid facial soap. 422,280; July 9. Class 4.
Lancaster, B. L., Company, Sacramento, Calif. Canned foods. 422,270; July 9. Class 46.

Lancaster, William F., doing business as Domestic Chemical Company, Farmington, Mich. Washing compounds. 422,278; July 9. Class 4.

Langhaus, Morris, doing business as Sun-Ray Hair Preparations Co., New York, N. Y. Hair tonic. 213,840; renewed June 8, 1946. O. G. July 9, 1946. Class 6.

Larabee, F. S. & F. D., Stafford, Kans., to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat-flour. 54,921; re-renewed Aug. 7, 1946. O. G. July 9. Class 46.

Larabee Flour Mills Corporation, The, Kansas City, Mo., to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 213,424; renewed May 25, 1946. O. G. July 9. Class 46.

Lee, Martha, Inc., Waco, Tex. Cologne. 422,283; July 9. Class 6.

Lee, Martha, Inc., Waco, Tex. Face powder, cleansing creams, night cream, etc. 422,286; July 9. Class 6.

Legrand, Oriza L., Inc., Wilmington, Del., and New York, N. Y., to Oriza, Ltd., New York, N. Y. Perfumes, toilet water, face powder, etc. 216,575; renewed Aug. 17, 1946. O. G. July 9. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,251; July 9; Serial No. 495,041; published Apr. 23, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,252; July 9; Serial No. 495,054; published Apr. 23, 1946. Class 2.

Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Men's and boys' topcoats and overcoats and suits. 422,282; July 9. Class 39.

Libbey Glass Company, The, to Owens-Illinois Glass Company, Toledo, Ohio. Cut-glass articles. 54,172; re-renewed June 19, 1946. O. G. July 9. Class 33.

Louisiana Supply Company, Sulphur, La. Axes and hammers. 422,193; July 9; Serial No. 486,908; published Apr. 2, 1946. Class 23.

Magee, John E. F., Company, Boston, Mass. Welsh rarebit. 216,119; renewed Aug. 3, 1946. O. G. July 9. Class 46.

Mallory Hat Company, The: *See*—
Murphy-Gorman Company.

Malone, L. T., doing business as L. T. Malone Co., Phoenix, Ariz. Fresh vegetables. 422,271; July 9. Class 46.

Malone, L. T., Co.: *See*—
Malone, L. T.

Mantell, Herman, New York, N. Y. Hosiery. 216,671; renewed Aug. 17, 1946. O. G. July 9. Class 39.

Marlin Firearms Company, The: *See*—
Marlin Fire Arms Company, The.

Marlin Fire Arms Company, The, to The Marlin Firearms Company, New Haven, Conn. Shot-guns, rifles, revolvers, etc. 55,158; re-renewed Aug. 7, 1946. O. G. July 9. Class 9.

Mason, Albert G., to White Sewing Machine Corporation, Cleveland, Ohio. Sewing-machines. 51,531; re-renewed Apr. 17, 1946. O. G. July 9. Class 23.

Maytag Company, The, to Maytag Company, The, Newton, Iowa. Clothes-washing machines and agitators therefor. 215,216; renewed July 13, 1946. O. G. July 9. Class 24.

Maytag Company, The, to Maytag Company, The, Newton, Iowa. Clothes-washing machines and agitators therefor. 215,345; renewed July 13, 1946. O. G. July 9. Class 24.

McCormick & Co., Incorporated, Baltimore, Md. Imitation vanilla extract, salad dressing, mayonnaise, etc. 422,232; July 9; Serial No. 492,069; published Apr. 23, 1946. Class 46.

McDaniel, Rex, San Luis Rey Valley, Calif. Fresh vegetables. 422,234; July 9; Serial No. 492,844; published Apr. 16, 1946. Class 46.

Mendleson's, A., Sons, Albany, to B. T. Babbitt, Inc., Albany and New York, N. Y. Chlorid of lime. 54,675; re-renewed June 26, 1946. O. G. July 9. Class 6.

Merrill Candy Company, Merrill, Wis. Candy. 209,791; renewed Mar. 2, 1946. O. G. July 9, 1946. Class 46.

Merrill Candy Company, Merrill, Wis. Bar candy. 422,208; July 9; Serial No. 489,813; published Apr. 16, 1946. Class 46.

Metzger, Owen W.: *See*—
Smith-Briscoe Shoe Company.

Michigan Dairy Products Corporation, Crystal Falls, Mich. Pasteurized cheese food. 422,177; July 9; Serial No. 484,415; published Apr. 16, 1946. Class 46.

Michigan Fruit Canners, Inc.: *See*—
Fennville Canning Co.

Middlebrook Lancaster, Inc., Brooklyn, N. Y. Toilet water. 422,268; July 9. Class 6.

Middlebrook Lancaster, Inc., Brooklyn, N. Y. Hair dressing and after shave lotion. 422,269; July 9. Class 6.

Mixermobile manufacturers, Portland, Oreg. Vehicle mounted elevator apparatus. 422,181; July 9; Serial No. 485,231; published Apr. 16, 1946. Class 23.

Montres Era & Viso, C. Rüefli-Flury & Cie. Société Anonyme, to Era Watch Co. Limited C. Rüefli-Flury & Co., Bienne-Biel, Switzerland. Watches and clocks, movements, cases, etc. 209,006; renewed Feb. 16, 1946. O. G. July 9. Class 27.

Motor Master Products Corporation, doing business under the name Acme Spark Plug Company, Chicago, Ill. Spark plugs. 422,154; July 9; Serial No. 475,440; published Apr. 16, 1946. Class 21.

Motor Master Products Corporation, doing business under the name Republic Spark Plug Company, Chicago, Ill. Spark plugs. 422,155; July 9; Serial No. 475,444; published Apr. 16, 1946. Class 21.

Murias, J. S., y Ca, New York, N. Y., to H. de Cabanas y Carbajal, Trenton, N. J. Havana cigars. 54,920; re-renewed Aug. 7, 1946. O. G. July 9. Class 17.

Murphy-Gorman Company, to The Mallory Hat Company, Danbury, Conn. Men's soft hats, stiff felt hats, and velour hats. 211,267; renewed Apr. 6, 1946. O. G. July 9. Class 39.

Murphy Gorman Company, to The Mallory Hat Company, Danbury, Conn. Men's soft felt hats, stiff felt hats, and velour hats. 212,535; renewed May 4, 1946. O. G. July 9. Class 39.

Myers, F. E., & Bro., to Meyers, F. E., & Bro. Co., The, Ashland, Ohio. Hay-carriers. 52,365; re-renewed May 8, 1946. O. G. July 9. Class 23.

Myers, F. E., & Bro. Co., The: *See*—
Myers, F. E., & Bro.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dressed dolls. 422,240; July 9; Serial No. 494,188; published Apr. 23, 1946. Class 22.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dressed dolls. 422,241–3; July 9; Serial Nos. 494,190–2; published Apr. 23, 1946. Class 22.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dressed dolls. 422,244; July 9; Serial No. 494,194; published Apr. 23, 1946. Class 22.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dressed dolls. 422,245–7; July 9; Serial Nos. 494,197–9; published Apr. 23, 1946. Class 22.

Nath'l Fisher & Co., New York, N. Y. Shoes made wholly or in part of leather. 214,913; renewed July 6, 1946. O. G. July 9. Class 39.

National College of Health Company, Limited, Broughton, Manchester, to National College of Health Limited, The, Salford, England. Ointments, lotions, powders, etc. 216,705; renewed Aug. 17, 1946. O. G. July 9. Class 6.

National College of Health Limited, The: *See*—
National College of Health Company, Limited.

National Distilling Co., to Red Star Yeast and Products Company, Milwaukee, Wis. Yeast. 55,768; re-renewed Aug. 21, 1946. O. G. July 9. Class 46.

New England Confectionery Company: *See*—
New England Confectionery Co.

New England Confectionery Co., Boston, to New England Confectionery Company, Cambridge, Mass. Lozenges. 50,475; re-renewed Mar. 20, 1946. O. G. July 9. Class 46.

New England Trawler Equipment Co., Chelsea, Mass. Marine and deep sea fishing equipment. 422,168; July 9; Serial No. 480,423; published Apr. 16, 1946. Class 23.

New River Company, The: *See*—
White Oak Coal Co., The.

New York Merchandise Co., Inc.: *See*—
Guinzburg, Edwin.

Nogues, Frank, Los Angeles, Calif., to Durex Abrasives Corporation, Jersey City, N. J. Varnish and mixed paint. 209,366; renewed Feb. 23, 1946. O. G. July 9. Class 16.

North American Electrical Appliance Company, Inc., Buffalo, N. Y. Electrical appliances. 422,176; July 9; Serial No. 484,315; published Apr. 2, 1946. Class 21.

Oakes & Company, Chicago, Ill. General utility pails. 422,202; July 9; Serial No. 487,914; published Apr. 16, 1946. Class 26.

Oberti, G., & Sons, Madera, Calif. Ripe olives, Spanish type green olives and ripe chopped olives, etc. 422,288; July 9. Class 46.

Old Heaven Hill Springs Distillery, Bardstown, Ky. Whiskey. 422,224; July 9; Serial No. 491,353; published Apr. 2, 1946. Class 49.

Olin Industries, Inc.: *See*—
Western Cartridge Company.
Winchester Repeating Arms Co.

Oneida Community Limited, to Oneida Ltd., Oneida, N. Y. Silver-plated tableware, flatware, hollow ware, etc. 210,420; renewed Mar. 16, 1946. O. G. July 9. Class 28.

Oneida Ltd.: *See*—
Oneida Community Limited.

Oriza, Ltd.: *See*—
Legrand, Oriza L., Inc.

Owens-Illinois Glass Company: *See*—
Libbey Glass Company, The.

Pacolet Mfg. Co., Pacolet and Spartanburg, S. C., and New Holland, Ga. Cotton piece goods. 216,609; renewed Aug. 17, 1946. O. G. July 9. Class 42.

Pangburn Company, Inc., Fort Worth, Tex. Ice creams and sherbets. 212,887; renewed May 18, 1946. O. G. July 9. Class 46.

Parlin & Orendorff Co., Canton, to International Harvester Company, Chicago, Ill. Riding and walking plows. 54,313; re-renewed June 26, 1946. O. G. July 9. Class 23.

Pearl, I. L., & Co., to Johnson Woolen Mills, Inc., Johnson, Vt. Trousers. 51,619; re-renewed Apr. 17, 1946. O. G. July 9, 1946. Class 39.

Peerless Tailored Dresses, New York, N. Y. Women's, misses', and junior dresses. 422,287; July 9. Class 39.

Perfection Mattress & Spring Company, Birmingham, Ala. Bed springs. 212,699; renewed May 11, 1946. O. G. July 9. Class 32.

Perma-Jack Corporation, Cleveland, Ohio. Jacks. 422,199; July 9; Serial No. 487,690; published Apr. 16, 1946. Class 23.

Perrine Quality Products Corporation, Waltham, Mass. Storage batteries. 422,141; July 9; Serial No. 441,745; published Dec. 11, 1945. Class 21.

Phillips Petroleum Company: *See*—
Benzo-Gas Motor Fuel Company.

Phosphor Bronze Smelting Company, The: *See*—
Phosphor-Bronze Smelting Co. Limited, The.

Phosphor-Bronze Smelting Co. Limited, The, to The Phosphor Bronze Smelting Company, Philadelphia, Pa. Metallic alloys. 55,096; re-renewed Aug. 7, 1946. O. G. July 9. Class 14.

Phosphor-Bronze Smelting Co., Limited, The, to Phosphor Bronze Smelting Company, The, Philadelphia, Pa. Metallic alloys. 55,406; re-renewed Aug. 14, 1946. O. G. July 9. Class 14.

Pinkerton, Thomas O., doing business as The Flavorene Company, Oklahoma City, Okla. Flavoring in liquid form. 422,217; July 9; Serial No. 490,904; published Apr. 23, 1946. Class 46.

Pitts, Shelby D.; doing business as Plasti Products Company, Chicago, Ill. Paint, varnish, and lacquer removers and paint brush cleaning preparations. 422,263; July 9. Class 16.

Plant, Geo. P., Milling Company, St. Louis, Mo., to Dixie-Portland Flour Company, also doing business as The Arkansas City Flour Mills, Memphis, Tenn., and Arkansas City, Kans. Corn meal, rye flour, pancake flour. 215,627; renewed July 20, 1946. O. G. July 9. Class 46.

Plasti Products Company: *See*—
Pitts, Shelby D.

Pointer, Robert W., doing business as Pointer-Willamette Company, Portland, Oreg. Tractor apparatus. 422,169; July 9; Serial No. 480,551; published Apr. 2, 1946. Class 23.

Pointer-Willamette Company: *See*—
Pointer, Robert W.

Portland Flour Mills Co., San Francisco, Calif., to General Mills, Inc., Minneapolis, Minn. Wheat flour. 216,028; renewed Aug. 3, 1946. O. G. July 9. Class 46.

Procter & Gamble Company, The: *See*—
Brown, David S.

Proctor Products, New Haven, Conn. Pyrophoric cigarette lighters. 422,227; July 9; Serial No. 491,727; published Apr. 23, 1946. Class 34.

Pulver Company, Inc., Rochester, N. Y. Chewing gum. 422,146; July 9; Serial No. 469,824; published Apr. 23, 1946. Class 46.

Pyridium Corporation: *See*—
Pyridium Corporation, The.

Pyridium Corporation, The, New York, to Pyridium Corporation, Yonkers, N. Y. Pseudodiaminopyridineazophenylorthocarbonic acid. 216,630; renewed Aug. 17, 1946. O. G. July 9. Class 6.

Quality Products Co., Inc., New York, N. Y. Perfumes and toilet water. 422,276; July 9. Class 6.

Radio Corporation of America: *See*—
Victor Talking Machine Company.

Rapid Electroplating Process, Inc., Chicago, Ill. Metal cleaner. 422,273; July 9. Class 6.

Rapids-Standard Company, Inc., The, Grand Rapids, Mich. Verticle adjustable, wheel-supported, belt-type conveyor. 422,182; July 9; Serial No. 485,368; published Apr. 16, 1946. Class 23.

Records & Goldsborough, Inc., Baltimore, Md. Whiskey, gin, brandy, etc. 422,187; July 9; Serial No. 486,385; published Apr. 9, 1946. Class 49.

Records & Goldsborough, Incorporated, Baltimore, Md. Whiskey, gin, brandy, etc. 422,203; July 9; Serial No. 488,932; published Apr. 9, 1946. Class 49.

Red Star Yeast and Products Company: *See*—
National Distilling Co.

Relax-Spray Company: *See*—
Cappio, Peter.

Republic Spark Plug Company: *See*—
Motor Master Products Corporation.

Review & Herald Publishing Association: *See*—
Review and Herald Pub. Assn.

Review and Herald Pub. Assn., Takoma Park, D. C., to Review & Herald Publishing Association, Washington, D. C. Weekly publications. 214,151–2; renewed June 15, 1946. O. G. July 9. Class 38.

Revlon Products Corporation, New York, N. Y. Nail enamel and lipstick. 422,265; July 9. Class 6.

Revlon Products Corporation, New York, N. Y. Top film for nail enamel. 422,266; July 9. Class 6.

Rite-Way Products Company, Chicago, Ill. Vacuum type milking machines and parts thereof and vacuum pumps. 422,171; July 9; Serial No. 481,342; published Apr. 16, 1946. Class 23.

Rival Manufacturing Company, assignor to Rival Manufacturing Company, Kansas City, Mo. Ice crushers. 422,185; July 9; Serial No. 485,886; published Apr. 16, 1946. Class 23.

Robertson Peanut Company, Clayton, Ala. Peanut butter. 422,220; July 9; Serial No. 491,124; published Apr. 23, 1946. Class 46.

Rockwood & Co., New York, N. Y. Chocolates. 214,388; renewed June 22, 1946. O. G. July 9. Class 46.

Rocky Mountain Packing Corporation: *See*—
Twin Peaks Canning Co.

Roma Wine Company, New York, N. Y., and Fresno, Calif. Wines. 422,161; July 9; Serial No. 477,624; published Apr. 2, 1946. Class 47.

Ruddell, W. A., doing business as Guaranize Egg Service, Cape May Point, N. J. Fresh eggs. 422,210; July 9; Serial No. 490,083; published Apr. 16, 1946. Class 46.

Ruland, Fred F., doing business as Ruland Manufacturing Company, Watertown, Mass. Radar vacuum tube filament pipe components and radar vacuum tube output pipe components. 422,218; July 9; Serial No. 490,906; published Apr. 9, 1946. Class 21.

Ruland Manufacturing Company: *See*—
Ruland, Fred F.

Russ-Suchard & Cie., Neuchatel, Switzerland, assignors to Suchard Société Anonyme, of Serrieres, to Chocolat Suchard Société Anonyme. Chocolates and cocoas. 54,480; re-renewed June 26, 1946. O. G. July 9. Class 46.

Russ-Suchard & Cie., Neuchatel, Switzerland, assignors to Suchard Société Anonyme, of Serrieres, to Chocolat Suchard Société Anonyme. Chocolate candies, chocolate, and preparations of chocolate and cocoas. 54,527; re-renewed June 26, 1946. O. G. July 9. Class 46.

S-B Manufacturing Company, Milwaukee, Wis. Door closers. 422,219; July 9; Serial No. 491,030; published Apr. 16, 1946. Class 13.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Eer-oil, a solution for irrigating and washing the ears of dogs, etc. 422,264; July 9. Class 6.

Scarlet Tooth Paste Co., New York, N. Y. Tooth paste. 422,291; July 9. Class 6.

Self Winding Clock Co., Inc., New York, N. Y. Electrical control apparatus. 422,147; July 9; Serial No. 470,006; published Apr. 16, 1946. Class 21.

Shapleigh Hardware Company: *See*—
Simmons Hardware Company.

Simmons Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Picks, mattocks, grub-hoes, etc. 54,880; re-renewed July 31, 1946. O. G. July 9. Class 23.

Simmons Machine Co., assignor to Simmons Manufacturing Co., Chicago, Ill. Mending machines. 422,188; July 9; Serial No. 486,391; published Apr. 16, 1946. Class 23.

Simmons Manufacturing Co., assignee: *See*—
Simmons Machine Co.

Slovak, Ben, doing business as AAA-1 Products Company, Kansas City, Mo. Chemical additive with oil base for treating gasoline. 422,258; July 9. Class 6.

Smith, A. O., Corporation, Milwaukee, Wis. Arc welders and electric water heaters. 422,142; July 9; Serial No. 447,619; published Apr. 2, 1946. Class 21.

Smith, A. O., Corporation, Milwaukee, Wis. Centrifugal pumps, industrial processing pressure and vacuum vessels, etc. 422,149; July 9; Serial No. 471,640; published Apr. 16, 1946. Class 23.

Smith-Briscoe Shoe Company, Lynchburg, Va., to Owen W. Metzger, doing business as Wetherhold & Metzger, Allentown, Pa. Men's leather boots and shoes. 54,086; re-renewed June 19, 1946. O. G. July 9. Class 39.

Sorbo Limited: *See*—
Sorbo Rubber-Sponge Products Ltd.

Sorbo Rubber-Sponge Products Ltd., to Sorbo Limited, Woking, England. Flesh pads and truss pads. 211,247; renewed Apr. 6, 1946. O. G. July 9. Class 44.

Southwest Distributors Electrical Appliance Corporation, Wichita, Kans. Liquefied petroleum apparatus. 422,260; July 9. Class 34.

Spach, J. C., Wagon Works, Inc., Winston-Salem, N. C. Chairs for household purposes, dining tables, card tables, etc. 214,607; renewed June 29, 1946. O. G. July 9. Class 32.

Sparta Ceramic Company, The, East Sparta, Ohio. Hollow pottery ware. 422,212; July 9; Serial No. 490,337; published Apr. 23, 1946. Class 30.

Spencer Kellogg and Sons, Inc., Buffalo, N. Y. Drying oil as or in coating compositions. 422,274; July 9. Class 16.

Sperry Flour Company, San Francisco, Calif., to General Mills, Inc., Minneapolis, Minn. Wheat flour. 212,217; renewed Apr. 27, 1946. O. G. July 9. Class 46.

Springfield Grocer Company, Springfield, Mo. Canned fruits, canned vegetables, canned fish, etc. 216,699; renewed Aug. 17, 1946. O. G. July 9. Class 46.

Squire Dingee Company, Chicago, Ill. Jellies, jams, fruit butters, etc. 211,407; renewed Apr. 13, 1946. O. G. July 9. Class 46.

Squire Dingee Company, Chicago, Ill. Pickles, jellies, jams, etc. 212,450; renewed May 4, 1946. O. G. July 9. Class 46.

Standard Crayon Manufacturing Corporation: *See*—
Hoyt, Joseph M.

Standard Homoeopathic Globule & Disk Co. Inc.: *See*—
Bischoff, Frederick.

Stanley Works, The, New Britain, Conn. Cold-rolled flat strip steel. 216,520; renewed Aug. 10, 1946. O. G. July 9. Class 14.

Stone, Edwin D., Philadelphia, Pa. Toy boats. 422,250; July 9; Serial No. 494,872; published Apr. 23, 1946. Class 22.

Suchard Société Anonyme of Serrieres: *See*—
Russ-Suchard & Cie.
Sun-Ray Preparations Co.: *See*—
Langhaus, Morris.
Sunset Incorporated, Chicago, Ill. Alcoholic beverage bitters. 422,213; July 9; Serial No. 490,342; published Apr. 2, 1946. Class 49.
"Supertest" Limited, to Supertest Petroleum Corporation Limited, London, Ontario, Canada. Gasoline, kerosene, and lubricating oils and greases. 209,104; renewed Feb. 16, 1946. O. G. July 9. Class 15.
Supertest Petroleum Corporation Limited: *See*—
"Supertest" Limited.
Swartz, William P., Jr., and Company, Roanoke, Va. Dry, paste, and ready-mixed paint, paint enamels, varnishes, etc. 422,255; July 9. Class 16.
Syracuse Ornamental Co., Syracuse, N. Y. Furniture carvings, mouldings and legs, etc. 422,195; July 9; Serial No. 487,289; published Apr. 23, 1946. Class 32.
Tex-O-Kan Flour Mills Co.: *See*—
Burrus Mill & Elevator Company.
Textileather Corporation, Toledo, Ohio. Thermoplastic mending adhesive tape. 422,253; July 9; Serial No. 497,890; publication waived. Class 5.
Thompson-Hayward Chemical Company, Kansas City, Mo. Vitamin concentrate. 422,289; July 9. Class 6.
Toch Brothers, Incorporated, New York, to Toch Brothers, Incorporated, Staten Island, N. Y. Water and stain proofing liquid. 212,320; renewed Apr. 27, 1946. O. G. July 9. Class 16.
Twin Peaks Canning Co., to Rocky Mountain Packing Corporation, Salt Lake City, Utah. Canned vegetables. 214,032; renewed June 8, 1946, O. G. July 9. Class 46.
United States Quarry Tile Company, Canton and East Sparta, Ohio. Pestles and vessels for testing and laboratory use. 422,206; July 9; Serial No. 489,426; published Apr. 23, 1946. Class 26.
United States Rubber Company: *See*—
Eureka Fire Hose Co.
Fisk Rubber Company, The.
Gorham Rubber Company.
Universal Sewer Pipe Corp., Cleveland, Ohio. Ceramic drain pipe. 422,257; July 9. Class 12.
Usines Réunies Scheerders-Van Kerchove Société Anonyme: *See*—
Van Kerchove, Léon Scheerders.
Valley View Packing Company, San Jose, Calif. Dried fruits. 422,179; July 9; Serial No. 484,762; published Aug. 21, 1945. Class 46.
Van Kerchove, Léon Scheerders, to Usines Réunies Scheerders-Van Kerchove Société Anonyme, St. Nicolas-Waes, Belgium. Artificial slates, slabs, plain or waved. 212,082; renewed Apr. 27, 1946. O. G. July 9. Class 12.
Van Raalte Co., Inc., New York, N. Y. Women's, misses', and children's silk knitted underwear. 216,769; renewed Aug. 17, 1946. O. G. July 9. Class 39.
Victor Talking Machine Company, Camden, N. J., to Radio Corporation of America, New York, N. Y. Talking machines and parts thereof, and talking-machine records. 215,794; renewed July 27, 1946. O. G. July 9. Class 36.
Vigo Company: *See*—
Heinrick, Sydney J.
Wahl, Manfred, Philadelphia, Pa. Pure culture or ferment employed in the production of cereal beverages. 213,227; renewed May 25, 1946. O. G. July 9. Class 48.
Wander Company, The, Chicago, Ill. Flavored dessert powders for food purposes. 422,192; July 9; Serial No. 486,835; published Apr. 16, 1946. Class 46.
Warren Chemical & Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Asphalt. 50,084; re-renewed Mar. 6, 1946. O. G. July 9. Class 12.
Warren Chemical & Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Asphalt. 52,039; re-renewed May 1, 1946. O. G. July 9. Class 12.
Washburn-Crosby Company, to General Mills, Inc., Minneapolis, Minn. Wheat flour. 28,479; re-renewed June 30, 1946. O. G. July 9. Class 46.
Washburn-Crosby Company, to General Mills, Inc., Minneapolis, Minn. Wheat flour. 215,391; renewed July 20, 1946. O. G. July 9. Class 46.
Washburn-Crosby Company, to General Mills, Inc., Minneapolis, Minn. Wheat flour. 215,719; renewed July 27, 1946. O. G. July 9. Class 46.
Washington Co-Operative Farmers' Association, Seattle, Wash. Canned chicken meats, with their gravies and jellies. 422,235; July 9; Serial No. 492,977; published Apr. 23, 1946. Class 46.
Washington Co-Operative Farmers' Association, Seattle, Wash. Canned turkey meats, with their gravies and jellies. 422,236; July 9; Serial No. 492,978; published Apr. 23, 1946. Class 46.
Watkins, Archibald F., Tyler, Tex. Masonry tool. 422,150; July 9; Serial No. 473,354; published Apr. 2, 1946. Class 23.
Wearwell Company, Inc.: *See*—
Wear Well Pants Co.
Wear Well Pants Co., to Wearwell Company, Inc., Baltimore, Md. Men's coats, vests, pants, etc. 206,702; renewed Dec. 8, 1945. O. G. July 9. Class 39.
Webb Fuel Company, The, Cincinnati, Ohio. Coal. 216,320; renewed Aug. 10, 1946. O. G. July 9. Class 1.
Webster-Chicago Corporation, Chicago, Ill. Electrically operated phonograph record changers. 422,175; July 9; Serial No. 484,153; published Apr. 9, 1946. Class 21.
Wells, E. S., Estate of: *See*—
Wells, Ephraim S.
Wells, Ephraim S., to Estate of E. S. Wells, Jersey City, N. J. Rat, vermin, and insect destroyer or exterminator. 54,051; re-renewed June 19, 1946. O. G. July 9. Class 6.
West Disinfecting Company, Long Island City, N. Y. Cleaning preparation. 422,277; July 9. Class 4.
Western Cartridge Company, to Olin Industries, Inc., East Alton, Ill. Shot shells. 209,759; renewed Mar. 2, 1946. O. G. July 9. Class 9.
Western Cartridge Company, to Olin Industries, Inc., East Alton, Ill. Target traps and targets. 210,699; renewed Mar. 23, 1946. O. G. July 9. Class 22.
Western Cartridge Company, to Olin Industries, Inc., East Alton, Ill. Rifle cartridges. 212,602; renewed May 11, 1946. O. G. July 9. Class 9.
Western Fruit Growers, Inc.: *See*—
Whitney, Howard.
Western Precipitation Corporation, Los Angeles, Calif. Industrial apparatus. 422,157; July 9; Serial No. 476,181; published Apr. 2, 1946. Class 23.
Wetherhold & Metzger: *See*—
Smith-Briscoe Shoe Company.
White-Haines Optical Company, The, Columbus, Ohio. Spectacles, spectacle frames, and ophthalmic lenses. 210,410–12; renewed Mar. 16, 1946. O. G. July 9. Class 26.
White Oak Coal Co., The, Macdonald, to The New River Company, Mount Hope, W. Va. Coal. 55,108; re-renewed Aug. 7, 1946. O. G. July 9. Class 1.
White Sewing Machine Corporation: *See*—
Mason, Albert G.
Whitin Machine Works, Whitinsville, Mass. Spinning and twisting rings. 216,832; renewed Aug. 24, 1946. O. G. July 9. Class 23.
Whitney, Howard, Redlands, to Western Fruit Growers, Inc., Los Angeles, Calif. Fresh citrous fruit. 216,181; renewed Aug. 3, 1946. O. G. July 9. Class 46.
Wilbur, H. O., & Sons, Philadelphia, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Solid chocolate confections. 55,254; re-renewed Aug. 7, 1946. O. G. July 9. Class 46.
Wilbur-Suchard Chocolate Company, Inc.: *See*—
Wilbur, H. O., & Sons.
Winchester Repeating Arms Co., to Olin Industries, Inc., New Haven, Conn. Shotguns and rifles. 53,994; re-renewed June 19, 1946. O. G. July 9. Class 9.
Wise Brothers, to Chestnut Farms-Chevy Chase Dairy Company, Washington, D. C. Raw milk, pasteurized milk, Holstein nursery milk (raw), etc. 210,908; renewed Mar. 30, 1946. O. G. July 9. Class 46.
Wood, A. A., & Sons Company, Atlanta, Ga. Machine for filing and gumming gin-saws. 55,555; re-renewed Aug. 14, 1946. O. G. July 9. Class 23.
Worrall, J. & J. M., Limited, Salford, England. Cotton piece goods. 55,610; re-renewed Aug. 21, 1946. O. G. July 9. Class 42.
Yosemite Growers Co-Operative Association, Merced, Calif. Frozen fresh deciduous fruits and vegetables, and canned deciduous fruits and vegetables. 422,183; July 9; Serial No. 485,552; published Apr. 16, 1946. Class 46.
Young, L. A., Spring & Wire Corporation, Detroit, Mich. Garment hangers. 422,225; July 9; Serial No. 491,446; published Apr. 23, 1946. Class 50.
Zenith Radio Corporation, Chicago, Ill. Electrical pick-up arms and parts, and electrical sound pick-up cartridges. 422,174; July 9; Serial No. 483,048; published Apr. 9, 1946. Class 21.
Zion Industries, Inc., Zion, Ill. Candy and candy confections. 422,200; July 9; Serial No. 487,752; published Apr. 16, 1946. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Webb Fuel Company. 216,320; renewed Aug. 10, 1946. O. G. July 9.
Coal. White Oak Coal Co. 55,108; re-renewed Aug. 7, 1946. O. G. July 9.
Skins, hides, and pelts, Fur. Best & Co. Inc. 213,256; renewed May 25, 1946. O. G. July 9.
Tar and pitch. Barrett Manufacturing Company. 51,166; re-renewed Apr. 3, 1946. O. G. July 9.

CLASS 2

Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,251; July 9; Serial No. 495,041; published Apr. 23, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,252; July 9; Serial No. 495,054; published Apr. 23, 1946.
Compacts for containing cosmetics. Coro, Inc. 422,239; July 9; Serial No. 494,032; published Apr. 23, 1946.

CLASS 3

Horse-blankets. W. Ayres & Sons. 55,341; re-renewed Aug. 14, 1946. O. G. July 9.
Straps, woven razor strops, woven skate straps, etc., Woven trunk. Buffalo Weaving & Belting Co. 211,403; renewed Apr. 13, 1946. O. G. July 9.

CLASS 4

Cleaning preparation. West Disinfecting Company. 422,277; July 9.
Soap, Liquid facial. R. H. Laird Manufacturing Company, Inc. 422,280; July 9.
Soaps. Carbonell & Co. (S. en C.) 215,740; renewed July 27, 1946. O. G. July 9.
Washing compounds. W. F. Lancaster. 422,278; July 9.
Washing-powder. D. S. Brown. 54,771; re-renewed July 31, 1946. O. G. July 9.

CLASS 5

Adhesive tape, Thermoplastic mending. Textileather Corporation. 422,253; July 9; Serial No. 497,890.

CLASS 6

Cane-sugar globules, absorbent sugar disks, and refined sugar-of-milk tablets, Pure. F. Bischoff. 55,885; re-renewed Aug. 21, 1946. O. G. July 9.
Chemical additive with oil base for treating gasoline. B. Slovak. 422,258; July 9.
Chlorid of lime. A. Mendleson's Sons. 54,675; re-renewed June 26, 1946. O. G. July 9.
Cleaner, Metal. Rapid Electroplating Process, Inc. 422,273; July 9.
Cologne. Martha Lee, Inc. 422,283; July 9.
Cosmetic preparations. Jay Dee Drug Co. 422,290; July 9.
Cream, cleansing cream, face powder, etc., Cold. J. Baalmann Manufacturing Chemist. 212,904; renewed May 18, 1946. O. G. July 9.
Deodorants. A. P. Babcock Company. 215,827; O. G. July 9.
Destroyer or exterminator, Rat, vermin, and insect. E. S. Wells. 54,051; re-renewed June 19, 1946. O. G. July 9.
Eer-Oil, a solution for irrigating and washing the ears of dogs, etc. Dr. Salsbury's Laboratories. 422,264; July 9.
Enamel and lipstick, Nail. Revlon Products Corporation. 422,265; July 9.
Film for nail enamel, Top. Revlon Products Corporation. 422,266; July 9.
Hair dressing and after shave lotion. Middlebrook Lancaster, Inc. 422,269; July 9.
Medicine for cystitis. C-Y Laboratories. 215,174; renewed July 13, 1946. O. G. July 9.
Medicinal preparation. S. J. Heinrick. 422,267; July 9.
Medicinal tablets. Antikamnia Remedy Company. 216,663; renewed Aug. 17, 1946. O. G. July 9.
Ointments, lotions, powders, etc. National College of Health Company, Limited. 216,705; renewed Aug. 17, 1946. O. G. July 9.
Perfumery. American Safety Razor Corporation. 422,272; July 9.
Perfumes. Guerlain Perfumery Corporation of New York. 216,906; renewed Aug. 24, 1946. O. G. July 9.
Perfumes and toilet water. Quality Products Co., Inc. 422,276; July 9.
Perfumes, toilet water, face powder, etc. Oriza L. Legrand, Inc. 216,575; renewed Aug. 17, 1946. O. G. July 9.
Powder, cleansing creams, night cream, etc., Face. Martha Lee, Inc. 422,286; July 9.
Pseudodiaminopyridineazophenylorthocarbonic acid. Pyridium Corporation. 216,630; renewed Aug. 17, 1946. O. G. July 9.
Rouge. Franco American Hygienic Company. 422,259; July 9.
Soda and saleratus, baking powder, and sal-soda. Church & Dwight Company. 55,665; re-renewed Aug. 21, 1946. O. G. July 9.
Toilet water. Middlebrook Lancaster, Inc. 422,268; July 9.
Tonic, Hair. M. Langhaus. 213,840; renewed June 8, 1946. O. G. July 9.
Tooth paste. Scarlet Tooth Paste Co. 422,291; July 9.
Vitamin concentrate. Thompson-Hayward Chemical Company. 422,289; July 9.
Vitaminic preparation. C. A. Futter. 422,256; July 9.

CLASS 9

Cartridges, Rifle. Western Cartridge Company. 212,602; renewed May 11, 1946. O. G. July 9.
Shells, Shot. Western Cartridge Company. 209,759; renewed Mar. 2, 1946. O. G. July 9.
Shotguns and rifles. Winchester Repeating Arms Co. 53,994; re-renewed June 19, 1946. O. G. July 9.
Shot-guns, rifles, revolvers, etc. Marlin Fire Arms Company. 55,158; re-renewed Aug. 7, 1946. O. G. July 9.

CLASS 12

Asphalt. Warren Chemical & Manufacturing Company. 50,084; re-renewed Mar. 6, 1946. O. G. July 9.
Asphalt. Warren Chemical & Manufacturing Company. 52,049; re-renewed May 1, 1946. O. G. July 9.
Building, roofing, and sheathing paper. Barrett Manufacturing Company. 50,846; re-renewed Apr. 3, 1946. O. G. July 9.
Construction materials. Holoplast Limited. 422,173; July 9; Serial No. 482,801; published Apr. 16, 1946.
Lining material, Cementitious. J. Glassman. 422,205; July 9; Serial No. 488,998; published Apr. 16, 1946.
Mastic finish for heat-insulating material. Armstrong Cork & Insulation Company. 216,512; renewed Aug. 10, 1946. O. G. July 9.
Pipe, Ceramic drain. Universal Sewer Pipe Corp. 422,257; July 9.
Refractory materials, particularly artificial mullite. Exolon Company, The. 214,323; renewed June 22, 1946. O. G. July 9.
Roofing consisting of flexible sheets of waterproof material. Eastern Granite Roofing Company. 53,656; re-renewed June 12, 1946. O. G. July 9.
Roofing-felt. Barrett Manufacturing Company. 51,437; re-renewed Apr. 17, 1946. O. G. July 9.
Slates, slabs, plain or waved, Artificial. L. S. Van Kerchove. 212,082; renewed Apr. 27, 1946. O. G. July 9.

CLASS 13

Door closers. S-B Manufacturing Company. 422,219; July 9; Serial No. 491,030; published Apr. 16, 1946.
Hardware. Harvey Machine Co., Inc. 422,165; July 9; Serial No. 479,121; published Apr. 16, 1946.
Hose supports. P. Cappio. 422,197; July 9; Serial No. 487,502; published Apr. 16, 1946.
Pans; funnels; welded pipe; Rectangular galvanized steel. Columbian Steel Tank Company. 422,158; July 9; Serial No. 476,239; published Apr. 16, 1946.
Screw connections and parts of screw connections. Aircraft Screw Products Company, Inc. 422,228; July 9; Serial No. 491,744; published Apr. 16, 1946.
Screws, bolts, nuts, etc. American Screw Company. 53,739; re-renewed June 12, 1946. O. G. July 9.
Sprinkler apparatus, Automatic fire. Globe Automatic Sprinkler Company of Pennsylvania. 422,209; July 9; Serial No. 489,863; published Apr. 16, 1946.
Utensils, Aluminum cooking. Aluminum Goods Mfg. Co. 422,215; July 9; Serial No. 490,617; published Apr. 16, 1946.
Utensils, Metal household. Chas. Fischer Spring Co. 216,524; renewed Aug. 10, 1946. O. G. July 9.

CLASS 14

Alloys, Metallic. Phosphor-Bronze Smelting Co. Limited, The. 55,096; re-renewed Aug. 7, 1946. O. G. July 9.
Alloys, Metallic. Phosphor-Bronze Smelting Co., Limited, The. 55,406; re-renewed Aug. 14, 1946. O. G. July 9.
Steel, Cold-rolled flat strip. Stanley Works. 216,520; renewed Aug. 10, 1946. O. G. July 9.

CLASS 15

Gasoline. Benzo-Gas Motor Fuel Company. 213,685; renewed June 1, 1946. O. G. July 9.
Gasoline, kerosene, and lubricating oils and greases. "Supertest" Limited. 209,104; renewed Feb. 16, 1946. O. G. July 9.
Oils and greases, Lubricating. American Oil Company. 422,204; July 9; Serial No. 488,985; published Apr. 16, 1946.

Oils and greases, Lubricating. Hancock Refining Co. 213,522; renewed June 1, 1946. O. G. July 9.
Oils, Lubricating. Cities Service Oil Company. 216,373; renewed Aug. 10, 1946. O. G. July 9.

CLASS 16

Drying oil as or in coating compositions. Spencer Kellogg and Sons, Inc. 422,274; July 9.
Paint, Coal-tar. Barrett Manufacturing Company. 53,997; re-renewed June 19, 1946. O. G. July 9.
Paint, paint enamels, varnishes, etc., Dry, paste, and ready-mixed. William P. Swartz, Jr., and Company. 422,235; July 9.
Paint, varnish, and lacquer removers, and paint brush cleaning preparation. S. D. Pitts. 422,263; July 9.
Paint, varnish, and paint enamel, Ready-mixed. W. P. Fuller & Co. 209,305; renewed Feb. 23, 1946. O. G. July 9.
Paints, stains, fillers, etc. Harrison Bros. & Co. 27,853; re-renewed Feb. 25, 1946. O. G. July 9.
Proofing liquid, Water and stain. Toch Brothers, Incorporated. 212,320; renewed Apr. 27, 1946. O. G. July 9.
Varnish and mixed paint. F. Nogues. 209,366; renewed Feb. 23, 1946. O. G. July 9.

CLASS 17

Cigars, Havana. Havana Commercial Company. 55,290; re-renewed Aug. 14, 1946. O. G. July 9.
Cigars, Havana. J. S. Murias y Ca. 54,920; re-renewed Aug. 7, 1946. O. G. July 9.

CLASS 19

Coaster-brakes and parts thereof, Back-pedaling. Eclipse Machine Co. 54,705; re-renewed June 26, 1946. O. G. July 9.

CLASS 21

Batteries, Storage. Perrine Quality Products Corporation. 422,141; July 9; Serial No. 441,745; published Dec. 11, 1945.
Electric position indicator. Elevator Supplies Co., Inc. 214,612; renewed June 29, 1946. O. G. July 9.
Electric steam radiators and electric irons. M. Koral. 422,198; July 9; Serial No. 487,560; published Apr. 16, 1946.
Electrical appliances. North American Electrical Appliance Company, Inc. 422,176; July 9; Serial No. 484,315; published Apr. 2, 1946.
Electrical control apparatus. Self Winding Clock Co., Inc. 422,147; July 9; Serial No. 470,006; published Apr. 16, 1946.
Electrical generators and motors and parts thereof. V. C. Kennedy. 422,156; July 9; Serial No. 475,856; published Apr. 9, 1946.
Electrical pick-up arms and parts, and electrical sound pick-up cartridges. Zenith Radio Corporation. 422,174; July 9; Serial No. 483,048; published Apr. 9, 1946.
Electrically operated phonograph record changer. Webster-Chicago Corporation. 422,175; July 9; Serial No. 484,153; published Apr. 9, 1946.
Electrode holders, electrical insulators, receptacles. E. D. Bullard Company. 422,160; July 9; Serial No. 477,177; published Apr. 9, 1946.
Radio equipment. Argus, Incorporated. 422,152; July 9; Serial No. 473,927; published Apr. 2, 1946.
Radio-receiving sets, radio-transmitting sets, television-receiving sets, etc. Eastern Amplifier Corporation. 422,170; July 9; Serial No. 481,273; published Apr. 16, 1946.
Reel carrying apparatus, Stationary. Airlite Mfg. Co. 422,144; July 9; Serial No. 466,339; published Apr. 2, 1946.
Spark plugs. Motor Master Products Corporation. 422,154; July 9; Serial No. 475,440; published Apr. 16, 1946.
Spark plugs. Motor Master Products Corporation. 422,155; July 9; Serial No. 475,444; published Apr. 16, 1946.
Vacuum cleaners, Electric. Apex Electrical Manufacturing Co. 422,190; July 9; Serial No. 486,639; published Apr. 16, 1946.
Vacuum tube filament pipe components and radar vacuum tube output pipe components, Radar. F. F. Ruland. 422,218; July 9; Serial No. 490,906; published Apr. 9, 1946.
Welders and electric water heaters, Arc. A. O. Smith Corporation. 422,142; July 9; Serial No. 447,619; published Apr. 2, 1946.

CLASS 22

Cards, Fortune telling. B. M. Graebner. 422,237; July 9; Serial No. 493,062; published Apr. 23, 1946.
Coaster and express wagons, cars, automobiles, etc., Juvenile iron, wood, and all-steel. Gendron Wheel Co. 212,949; renewed May 18, 1946. O. G. July 9.
Dolls, Dressed. Nancy Ann Dressed Dolls. 422,240; July 9; Serial No. 494,188; published Apr. 23, 1946.
Dolls, Dressed. Nancy Ann Dressed Dolls. 422,241–3; July 9; Serial Nos. 494,190–2; published Apr. 23, 1946.
Dolls, Dressed. Nancy Ann Dressed Dolls. 422,244; July 9; Serial No. 494,194; published Apr. 23, 1946.
Dolls, Dressed. Nancy Ann Dressed Dolls. 422,245–7; July 9; Serial Nos. 494,197–9; published Apr. 23, 1946.
Golf game including balls and propelling apparatus therefor. Burgess Battery Company. 422,261; July 9.
Spoons, Trolling. L. R. Carmichael. 422,248; July 9; Serial No. 494,258; published Apr. 23, 1946.
Swimming rings. E. Guinzburg. 203,711; renewed Sept. 22, 1945. O. G. July 9.
Target traps and targets. Western Cartridge Company. 210,699; renewed Mar. 23, 1946. O. G. July 9.
Toy boats. E. D. Stone. 422,250; July 9; Serial No. 494,872; published Apr. 23, 1946.

CLASS 23

Axes and hammers. Louisiana Supply Company. 422,193; July 9; Serial No. 486,908; published Apr. 2, 1946.
Bearings, bushings for mechanical working joints and machine parts, Machinery. Bound Brook Oil-Less Bearing Company. 422,180; July 9; Serial No. 485,002; published Apr. 9, 1946.
Conveyor, Vertically adjustable, wheel-supported, belt-type. Rapids-Standard Company, Inc. 422,182; July 9; Serial No. 485,368; published Apr. 16, 1946.
Crushers, Ice. Rival Manufacturing Company. 422,185; July 9; Serial No. 485,886; published Apr. 16, 1946.
Distributors. Eureka Vacuum Cleaner Company. 422,143; July 9; Serial No. 461,687; published Apr. 16, 1946.
Elevator apparatus, Vehicle mounted. Mixermobile Manufacturers. 422,181; July 9; Serial No. 485,231; published Apr. 16, 1946.
Fishing equipment, Marine and deep sea. New England Trawler Equipment Co. 422,168; July 9; Serial No. 480,423; published Apr. 16, 1946.
Gin-saws, Machine for filing and gumming. A. A. Wood & Sons Company. 55,555; re-renewed Aug. 14, 1946. O. G. July 9.
Hay-carriers. F. E. Myers & Bro. 52,365; re-renewed May 8, 1946. O. G. July 9.
Hoists, Window attachable, pulley and cord. A. Keller. 422,163; July 9; Serial No. 477,933; published Apr. 16, 1946.
Holders, Tool. Airo Products. 422,162; July 9; Serial No. 477,680; published Apr. 16, 1946.
Hydraulic power units. Blackhawk Mfg. Co. 422,172; July 9; Serial No. 482,459; published Apr. 16, 1946.
Industrial apparatus. Western Precipitation Corporation. 422,157; July 9; Serial No. 476,181; published Apr. 2, 1946.
Jacks. Perma-Jack Corporation. 422,199; July 9; Serial No. 487,690; published Apr. 16, 1946.
Jacks, Mine or timber. E. S. Fields. 422,194; July 9; Serial No. 487,249; published Apr. 2, 1946.
Knives and scrapers, Putty. R. A. Beck. 422,184; July 9; Serial No. 485,810; published Apr. 16, 1946.
Machines and parts thereof and vacuum pumps, Vacuum type milking. Rite-Way Products Company. 422,171; July 9; Serial No. 481,342; published Apr. 16, 1946.
Machines, Mending. Simmons Machine Co. 422,188; July 9; Serial No. 486,391; published Apr. 16, 1946.
Mills, Saw. Jackson Lumber Harvester, Inc. 422,189; July 9; Serial No. 486,578; published Apr. 16, 1946.
Motors and accessories for such motors, Internal combustion outboard. Aktiebolaget Archimedes. 422,151; July 9; Serial No. 473,841; published Apr. 16, 1946.
Picks, mattocks, grub-hoes, etc. Simmons Hardware Company. 54,880; re-renewed July 31, 1946. O. G. July 9.
Plows, Riding and walking. Parlin & Orendorff Co. 54,313; re-renewed June 26, 1946. O. G. July 9.
Pumps, Industrial processing, pressure and vacuum vessels, etc., Centrifugal. A. O. Smith Corporation. 422,149; July 9; Serial No. 471,640; published Apr. 16, 1946.
Pumps, Power operated mechanical. Cleaver-Brooks Company. 422,167; July 9; Serial No. 480,129; published Apr. 16, 1946.
Pumps, Water. Jabsco Pump Company. 422,191; July 9; Serial No. 486,777; published Apr. 2, 1946.
Reels, Pick-up. Harrison-Dillavou Co. 422,196; July 9; Serial No. 487,468; published Apr. 16, 1946.
Rolls, Ink. Goodyear Tire & Rubber Company. 422,186; July 9; Serial No. 486,106; published Apr. 16, 1946.
Sewing-machines. A. G. Mason. 51,531; re-renewed Apr. 17, 1946. O. G. July 9.
Spinning and twisting rings. Whitin Machine Works. 216,832; renewed Aug. 24, 1946. O. G. July 9.
Sweeping and beating brush, Carpet. Eureka Vacuum Cleaner Company. 422,159; July 9; Serial No. 476,359; published Apr. 16, 1946.
Tool, Masonry. A. F. Watkins. 422,150; July 9; Serial No. 473,354; published Apr. 2, 1946.
Tractor apparatus. R. W. Pointer. 422,169; July 9; Serial No. 480,551; published Apr. 2, 1946.
Windmills and repair and replacement parts therefor. Dempster Mill Manufacturing Company. 213,320; renewed May 25, 1946. O. G. July 9.

CLASS 24

Clothes-washing machines and agitators therefor. Maytag Company. 215,216; renewed July 13, 1946. O. G. July 9.

Clothes-washing machines and agitators therefor. Maytag Company. 215,345; renewed July 13, 1946. O. G. July 9.

CLASS 26

Drawing instruments. E. J. Early. 422,214; July 4; Serial No. 490,584; published Apr. 16, 1946.
Dynamometers, thermometers, beam scales, etc. John Chatillon & Sons. 216,421; renewed Aug. 10, 1946. O. G. July 9.
Films and film strips, Motion picture. Intercontinental Audio-Video Corporation. 422,226; July 9; Serial No. 491,571; published Apr. 16, 1946.
Pails, General utility. Oakes & Company. 422,202; July 9; Serial No. 487,914; published Apr. 16, 1946.
Pestles and vessels for testing and laboratory use. United States Quarry Tile Company. 422,206; July 9; Serial No. 489,426; published Apr. 23, 1946.
Spectacles, spectacle frames, and ophthalmic lenses. White-Haines Optical Company. 210,410–12; renewed Mar. 16, 1946. O. G. July 9.
Temperature-control devices for water heaters. Bastian-Morley Co. 214,362; renewed June 22, 1946. O. G. July 9.
Temperature measuring instruments and parts thereof, Electrical. Illinois Testing Laboratories, Inc. 422,201; July 9; Serial No. 487,842; published Apr. 23, 1946.
Testing equipment, Unitary assemblies of hydraulic. Greer Hydraulics, Inc. 422,145; July 9; Serial No. 468,198; published Apr. 16, 1946.
Weighing machines. E. and T. Fairbanks and Company. 51,226; re-renewed Apr. 10, 1946. O. G. July 9.
Weighing-scales and appurtenances thereof. E. and T. Fairbanks and Company. 55,449; re-renewed Aug. 14, 1946. O. G. July 9.

CLASS 27

Watches and clocks, movements, cases, etc. Montres Era & Viso, C. Rüefli-Flury & Cie. Société Anonyme. 209,006; renewed Feb. 16, 1946. O. G. July 9.
Watches, watchcases, and watchmovements. D. Gruen & Sons. 55,327; re-renewed Aug. 14, 1946. O. G. July 9.

CLASS 28

Flatware and hollow ware, Sterling silver. Easterling Company. 422,262; July 9.
Hollow ware, flat ware, and tableware, Silver. American Silver Company. 55,017; re-renewed Aug. 7, 1946. O. G. July 9.
Jewelry for personal wear, not including watches; silver dresser sets, and silver tableware. Best & Co. Inc. 212,762; renewed May 11, 1946. O. G. July 9.
Tableware, flatware, hollow ware, etc., Silver-plated. Oneida Community Limited. 210,420; renewed Mar. 16, 1946. O. G. July 9.

CLASS 30

Pottery ware, Hollow. Sparta Ceramic Company. 422,212; July 9; Serial No. 490,337; published Apr. 23, 1946.

CLASS 32

Bed springs. Perfection Mattress & Spring Company. 212,699; renewed May 11, 1946. O. G. July 9.
Cases, Show. Grand Rapids Show Case Company. 208,741; renewed Feb. 9, 1946. O. G. July 9.
Chairs for household purposes, dining tables, card tables, etc. J. C. Spach Wagon Works, Inc. 214,607; renewed June 29, 1946. O. G. July 9.
Furniture carvings, moulding and legs, etc. Syracuse Ornamental Co. 422,195; July 9; Serial No. 487,289; published Apr. 23, 1946.
Furniture, Nursery. Best & Co. Inc. 212,790; renewed May 11, 1946. O. G. July 9.

CLASS 33

Cut-glass articles. Libbey Glass Company. 54,172; re-renewed June 19, 1946. O. G. July 9.

CLASS 34

Burner, Fuel oil. Automatic Burner Corporation. 422,233; July 9; Serial No. 492,483; published Apr. 16, 1946.
Cookers for farms, steam tables, tank heaters, etc., Feed. Columbian Steel Tank Company. 422,164; July 9; Serial No. 478,500; published Apr. 16, 1946.
Generating units, steam boilers, air heaters, etc., Complete steam. Babcock & Wilcox Company. 422,229; July 9; Serial No. 491,800; published Apr. 23, 1946.
Heaters, Gas water. Farmco, Incorporated. 422,211; July 9; Serial No. 490,111; published Apr. 23, 1946.
Lighters, Pyrophoric cigarette. Proctor Products. 422,227; July 9; Serial No. 491,727; published Apr. 23, 1946.
Liquefied petroleum apparatus. Southwest Distributors Electrical Appliance Corporation. 422,260; July 9.
Ventilators. Beacon Steel Products Co. 422,207; July 9; Serial No. 489,638; published Apr. 16, 1946.

CLASS 35

Asbestos material, Impregnated. British Belting & Asbestos Ltd. 210,152; renewed Mar. 9, 1946. O. G. July 9.

Belting, Rubber. Gorham Rubber Company. 52,068; re-renewed May 1, 1946. O. G. July 9.
Hose, Cotton rubber-lined. Eureka Fire Hose Co. 51,708; re-renewed Apr. 24, 1946. O. G. July 9.
Hose, Cotton rubber-lined. Eureka Fire Hose Co. 51,886; re-renewed Apr. 24, 1946. O. G. July 9.
Hose, Rubber. Gorham Rubber Company. 54,550; re-renewed June 26, 1946. O. G. July 9.
Patches for pneumatic tires, Repair. Fisk Rubber Company. 213,343; renewed May 25, 1946. O. G. July 9.

CLASS 36

Harmonicas and accordions, Mouth. M. Hohner, Inc. 216,782; renewed Aug. 17, 1946. O. G. July 9.
Talking machines and parts thereof, and talking-machine records. Victor Talking Machine Company. 215,794; renewed July 27, 1946. O. G. July 9.

CLASS 37

Checking-crayons, school-crayons, and marking-crayons. J. M. Hoyt. 53,422; re-renewed June 5, 1946. O. G. July 9.
Paper, Bond. Connecticut Valley Paper & Envelope Co., Inc. 215,139; renewed July 13, 1946. O. G. July 9.
Paper, Crepe. American Tissue Mills. 214,122; renewed June 15, 1946. O. G. July 9.
Stationers' supplies. Elbe File & Binder Company, Inc. 214,100; renewed June 15, 1946. O. G. July 9.

CLASS 38

Magazine or periodical. The W. F. T. Bushnell Company. 55,444; re-renewed Aug. 14, 1946. O. G. July 9.
Publication. Hoover Company. 214,262; renewed June 15, 1946. O. G. July 9.
Publications, Weekly. Review and Herald Pub. Assn. 214,151–2; renewed June 15, 1946. O. G. July 9.

CLASS 39

Boots and shoes, Men's leather. Smith-Briscoe Shoe Company. 54,086; re-renewed June 19, 1946. O. G. July 9.
Coats, suits, gowns, etc., Ladies' and misses'. Kaufmann Department Stores, Inc. 209,741; renewed Mar. 2, 1946. O. G. July 9.
Coats, vests, pants, etc., Men's. Wear Well Pants Co. 206,702; renewed Dec. 8, 1945. O. G. July 9.
Dresses, Women's. Fashion Forecast. 422,279; July 9.
Dresses, Women's, misses', and junior. Peerless Tailored Dresses. 422,287; July 9.
Dry goods. James A. Hearn & Son Inc. 215,781; renewed July 27, 1946. O. G. July 9.
Hats, shoes, slippers, etc. Best & Co., Inc. 212,791; renewed May 11, 1946. O. G. July 9.
Hats, stiff felt hats, and velour hats, Men's. Murphy-Gorman Company. 211,267; renewed Apr. 6, 1946. O. G. July 9.
Hats, stiff felt hats, and velour hats, Men's soft felt. Murphy Gorman Company. 212,535; renewed May 4, 1946. O. G. July 9.
Hosiery. H. Mantell. 216,671; renewed Aug. 17, 1946. O. G. July 9.
Infant's wear. James A. Hearn & Son, Inc. 213,530; renewed June 1, 1946. O. G. July 9.
Playsuits, jumpers, dresses, etc., Ladies'. Dorothy Baker Sportswear, Inc. 422,285; July 9.
Shoes made wholly or in part of leather. Nath'l Fisher & Co. 214,913; renewed July 6, 1946. O. G. July 9.
Shoes, Women's, misses', and children's. J. J. Grover's Sons Company. 214,899; renewed June 29, 1946. O. G. July 9.
Topcoats and overcoats and suits, Men's and boys'. Levy Bros. & Adler Rochester, Incorporated. 422,282; July 9.
Trousers. I. L. Pearl & Co. 51,619; re-renewed Apr. 17, 1946. O. G. July 9.
Underwear, Women's, misses', and children's silk knitted. Van Raalte Co., Inc. 216,769; renewed Aug. 17, 1946. O. G. July 9.

CLASS 40

Hooks and eyes. De Long Hook & Eye Company. 55,056; re-renewed Aug. 7, 1946. O. G. July 9.

CLASS 42

Cotton piece goods. Brand & Oppenheimer Incorporated. 214,041; renewed June 8, 1946. O. G. July 9.
Cotton piece goods. Pacolet Mfg. Co. 216,609; renewed Aug. 17, 1946. O. G. July 9.
Cotton piece goods. J. & J. M. Worrall Limited. 55,610; re-renewed Aug. 21, 1946. O. G. July 9.
Cotton piece goods, shirtings, artificial fabrics, Staple and novelty. Aberfoyle Mfg. Co. 216,353; renewed Aug. 10, 1946. O. G. July 9.
Dry goods. James A. Hearn & Son Inc. 215,781; renewed July 27, 1946. O. G. July 9.
Woolen piece goods. Forstmann & Huffmann Company. 211,020; renewed Mar. 30, 1946. O. G. July 9.

CLASS 43

Silk in small skeins, Artificial. J. P. Coats (R. I.) Inc. 215,775; renewed July 27, 1946. O. G. July 9.

Thread, Cotton. Jonas Brook & Bros., Limited. 54,236; re-renewed June 26, 1946. O. G. July 9.
Thread, Cotton. Jonas Brook & Bros., Limited. 54,666; re-renewed June 26, 1946. O. G. July 9.
Thread, Cotton. Clark Mile-End Spool Cotton Co. 54,443; re-renewed June 26, 1946. O. G. July 9.
Threads, Cotton. Clark Thread Company. 54,654; re-renewed June 26, 1946. O. G. July 9.
Yarn, sewing-cotton, and crochet-cotton, etc., Cotton. Jonas Brook & Bros., Limited. 54,336; re-renewed June 26, 1946. O. G. July 9.

CLASS 44

Nursing bottles. Corning Glass Works. 422,249; July 9; Serial No. 494,260; published Apr. 23, 1946.
Pads, and truss pads, Flesh. Sorbo Rubber-Sponge Products Ltd. 211,247; renewed Apr. 6 1946. O. G. July 9.
Surgical instruments. American Cystoscope Makers, Inc. 422,238; July 9; Serial No. 493,906; published Apr. 23, 1946.

CLASS 46

Beans with pork, Baked. Case-Swayne Company. 422,216; July 9; Serial No. 490,636; published Apr. 23, 1946.
Boxes, containers, and packages filled with candy, nuts, and dried fruits, etc. Barricini Inc. 422,153; July 9; Serial No. 474,317; published Apr. 16, 1946.
Candies. C. S. Allen Corporation. 216,382; renewed Aug. 10, 1946. O. G. July 9.
Candy. Merrill Candy Company. 209,791; renewed Mar. 2, 1946. O. G. July 9.
Candy and candy confections. Zion Industries, Inc. 422,200; July 9; Serial No. 487,752; published Apr. 16, 1946.
Candy, Bar. Merrill Candy Company. 422,208; July 9; Serial No. 489,813; published Apr. 16, 1946.
Canned chicken meats, with their gravies and jellies. Washington Co-Operative Farmers' Association. 422,235; July 9; Serial No. 492,977; published Apr. 23, 1946.
Canned foods. B. L. Lancaster Company. 422,270; July 9.
Canned fruits and vegetables. Booth Packing Company. 54,410; re-renewed June 26, 1946. O. G. July 9.
Canned fruits, canned vegetables, and canned berries. Fennville Canning Co. 216,389; renewed Aug. 10, 1946. O. G. July 9.
Canned fruits, canned vegetables, and canned berries. Fennville Canning Co. 216,533; renewed Aug. 10, 1946. O. G. July 9.
Canned fruits, canned vegetables, canned fish, etc. Springfield Grocer Company. 216,699; renewed Aug. 17, 1946. O. G. July 9.
Canned turkey meats, with their gravies and jellies. Washington Co-Operative Farmers' Association. 422,236; July 9; Serial No. 492,978; published Apr. 23, 1946.
Canned vegetables. H. C. Baxter & Bro. 214,352; renewed June 22, 1946. O. G. July 9.
Canned vegetables. Fraering Brokerage Co. Inc. 422,231; July 9; Serial No. 491,819. O. G. Apr. 23.
Canned vegetables. Twin Peaks Canning Co. 214,032; renewed June 8, 1946. O. G. July 9.
Cheese. Cerruti & Cominelli. 422,281; July 9.
Chewing gum. Pulver Company, Inc. 422,146; July 9; Serial No. 469,824; published Apr. 23, 1946.
Chocolate candies, chocolate, and preparations of chocolate and cocoas. Russ-Suchard & Cie. 54,527; re-renewed June 26, 1946. O. G. July 9.
Chocolates. Rockwood & Co. 214,388; renewed June 22, 1946. O. G. July 9.
Chocolates and cocoas. Russ-Suchard & Cie. 54,480; re-renewed June 26, 1946. O. G. July 9.
Coffee. General Foods Corporation. 422,221; July 9; Serial No. 491,252; published Apr. 16, 1946.
Coffee. Hawley Hermanos. 422,284; July 9.
Confections, Solid chocolate. H. O. Wilbur & Sons. 55,254; re-renewed Aug. 7, 1946. O. G. July 9.
Corn meal, rye flour, pancake flour, etc. Geo. P. Plant Milling Company. 215,627; renewed July 20, 1946. O. G. July 9.
Eggs, Fresh. W. A. Ruddell. 422,210; July 9; Serial No. 490,083; published Apr. 16, 1946.
Flavored dessert powders for food purposes. Wander Company. 422,192; July 9; Serial No. 486,835; published Apr. 16, 1946.
Flavoring in liquid form. T. O. Pinkerton. 422,217; July 9; Serial No. 490,904; published Apr. 23, 1946.
Flour, Wheat. Lamabee Flour Mills Corporation. 213,424; renewed May 25, 1946. O. G. July 9.
Flour, Wheat. Portland Flour Mills Co. 216,028; renewed Aug. 3, 1946. O. G. July 9.
Flour, Wheat. Sperry Flour Company. 212,217; renewed Apr. 27, 1946. O. G. July 9.
Flour, Wheat. Washburn Crosby Company. 215,391; renewed July 20, 1946. O. G. July 9.
Flour, Wheat. Washburn Crosby Company. 215,719; renewed July 27, 1946. O. G. July 9.
Food flavoring extracts, canned fruits, buckwheat flour, etc. Foley Bros. Grocery Co. 212,423; renewed May 4, 1946. O. G. July 9.
Fresh vegetables. L. T. Malone. 422,271; July 9.
Fruit, Fresh citrous. H. Whitney. 216,181; renewed Aug. 3, 1946. O. G. July 9.
Fruits and vegetables, and canned deciduous fruits and vegetables, Frozen fresh deciduous. Yosemite Growers Co-Operative Association. 422,183; July 9; Serial No. 485,552; published Apr. 16, 1946.
Fruits, Dried. Valley View Packing Company. 422,179; July 9; Serial No. 484,762; published Aug. 21, 1945.
Fruits, Fresh deciduous. R. H. Dart. 422,166; July 9; Serial No. 480,049; published June 12, 1945.
Grapes, Fresh. G. M. Kasparian. 213,073; renewed May 18, 1946. O. G. July 9.
Ice creams and sherbets. Pangburn Company, Inc. 212,887; renewed May 18, 1946. O. G. July 9.
Jellies, jams, fruit butters, etc. Squire Dingee Company. 211,407; renewed Apr. 13, 1946. O. G. July 9.
Lozenges. New England Confectionery Co. 50,475; re-renewed Mar. 20, 1946. O. G. July 9.
Milk, pasteurized milk. Holstein nursery milk (raw), etc., Raw. Wise Brothers. 210,908; renewed Mar. 30, 1946. O. G. July 9.
Muffin mix. F. E. Holland. 422,275; July 9.
Oleomargarine. John F. Jelke Company. 214,960; renewed July 6, 1946. O. G. July 9.
Oleomargarine. John F. Jelke Company. 215,341; renewed July 13, 1946. O. G. July 9.
Olive oils, Pure. Carbonell & Co. (S. en Co.). 215,741; renewed July 27, 1946. O. G. July 9.
Olives, spanish type green olives and ripe chopped olives, etc., Ripe. G. Oberti & Sons. 422,288; July 9.
Packaged food products, Macaroni. G. H. Cook. 422,254; July 9.
Pasteurized cheese food. Michigan Dairy Products Corporation. 422,177; July 9; Serial No. 484,415; published Apr. 16, 1946.
Peanut butter. Robertson Peanut Company. 422,220; July 9; Serial No. 491,124; published Apr. 23, 1946.
Pickles, jellies, jams, etc. Squire Dingee Company. 212,450; renewed May 4, 1946. O. G. July 9.
Semolinas, durum feed and durum flour, etc. Commander Mill Company. 213,624; renewed June 1, 1946. O. G. July 9.
Shortening, Vegetable oil. Interstate Cotton Oil Refining Co. 422,222; July 9; Serial No. 491,257; published Apr. 23, 1946.
Shortening, Vegetable oil. Interstate Cotton Oil Refining Co. 422,223; July 9; Serial No. 491,261; published Apr. 23, 1946.
Soda and saleratus, baking soda and sal-soda. Church & Dwight Company. 55,665; re-renewed Aug. 21, 1946. O. G. July 9.
Vanilla extract, salad dressing, mayonnaise, etc., Imitation. McCormick & Co., Incorporated. 422,232; July 9; Serial No. 492,069; published Apr. 23, 1946.
Vegetables, Fresh. Rex McDaniel. 422,234; July 9; Serial No. 492,844; published Apr. 16, 1946.
Welsh rarebit. John E. F. Magee Company. 216,119; renewed Aug. 3, 1946. O. G. July 9.
Wheat-flour. Burrus Mill & Elevator Company. 55,938; re-renewed Aug. 21, 1946. O. G. July 9.
Wheat-flour. F. S. & F. D. Larabee. 54,921; re-renewed Aug. 7, 1946. O. G. July 9.
Wheat-flour. Washburn-Crosby Company. 28,479; re-renewed June 30, 1946. O. G. July 9.
Yeast. National Distilling Co. 55,768; re-renewed Aug. 21, 1946. O. G. July 9.

CLASS 47

Wines. Roma Wine Company. 422,161; July 9; Serial No. 477,624; published Apr. 2., 1946.

CLASS 48

Culture or ferment employed in the production of cereal beverages, Pure. M. Wahl. 213,227; renewed May 25, 1946. O. G. July 9.

CLASS 49

Bitters. Alcoholic beverage. Sunset Incorporated. 422,213; July 9; Serial No. 490,342; published Apr. 2, 1946.
Brandy. Bohemian Distributing Company. 422,178; July 9; Serial No. 484,662; published Apr. 2, 1946.
Rum. R. U. Delapenha & Co., Inc. 422,148; July 9; Serial No. 470,968; published Apr. 2, 1946.
Whiskey. Old Heaven Hill Springs Distillery. 422,224; July 9; Serial No. 491,353; published Apr. 2, 1946.
Whiskey, gin, brandy, etc. Records & Goldsborough, Inc. 422,187; July 9; Serial No. 486,385; published Apr. 9, 1946.
Whiskey, gin, brandy, etc. Records & Goldsborough, Incorporated. 422,203; July 9; Serial No. 488,932; published Apr. 9, 1946.

CLASS 50

Corks, Bottle and prescription. Armstrong Cork Company. 55,475; re-renewed Aug. 14, 1946. O. G. July 9.
Film, Reinforced laminated transparent. Dobeckmun Company. 422,230; July 9; Serial No. 491,811; published Apr. 23.
Hangers, Garment. L. A. Young Spring & Wire Corporation. 422,225; July 9; Serial No. 491,446; published Apr. 23.

LIST OF PLANT PATENTEES

Allen Property Custodian: *See*—
Kluis, Johan H. and A.
Kluis, Anthony: *See*—
Kluis, Johan H. and A.

Kluis, Johan H. and A., Boskoop, Netherlands; vested in the Alien Property Custodian. Rose plant. 707; July 9.

LIST OF DESIGN PATENTEES

Allen, Grosvenor N., Oneida, and M. P. Fleming, Fulton, assignors to Oneida Ltd., Oneida, N. Y. Spoon or similar article. 145,150; July 9.
Boucher, Marcel, New York, N. Y. Clip. 145,151; July 9.
Boucher, Marcel, New York, N. Y. Clip. 145,152; July 9.
Bovay, Norman E., Naugatuck, assignor to Sport Products, Inc., Cincinnati, Ohio. Shoe sole. 145,153; July 9.
Burtis, Eric, Los Angeles, Calif. Statuette or similar article. 145,154; July 9.
Christie, John A., Akron, Ohio, assignor to The Mohawk Rubber Company. Tire. 145,155; July 9.
Cole of California Inc., assignee: *See*—
Laszlo, Margit F.
Conroy, Edward J., Meriden, Conn., assignor to International Silver Company. Spoon or other article of flatware. 145,157; July 9.
Consiglio, Emanuel P., Inglewood, Calif. Combined compact, match holder, and lipstick holder. 145,156; July 9.
Conveyors Incorporated, assignee: *See*—
Foster, Waldo E.
Corry-Jamestown Manufacturing Corporation, assignee: *See*—
Lindberg, Claus E.
Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 145,158; July 9.
Ekco Products Company, assignee: *See*—
Hvale, James L.
Zimmer, Myron J.
Ellmore Silver Co., Inc., The, assignee: *See*—
Malinowski, Harry A.
Fleming, Mary P.: *See*—
Allen, Grosvenor N., and Fleming.
Foster, Waldo E., Minneapolis, assignor to Conveyors Incorporated, St. Paul, Minn. Feeder box for grain or the like. 145,159; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,160; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,161; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,162; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,163; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,164; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,165; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,166; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,167; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,168; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,169; July 9.
Golden, Zelma, New York, N. Y. Dress. 145,170; July 9.
Green, Warren, Noroton Heights, Conn., and P. Schladermundt, Bronxville, assignors to Salz Bros. Inc., New York, N. Y. Clip for a fountain pen or similar article. 145,171; July 9.
Hvale, James L., assignor to Ekco Products Company, Chicago, Ill. Knife holder. 145,172; July 9.
International Silver Company, assignee: *See*—
Conroy, Edward J.
Kasen, Daniel, Newark, N. J. Button or similar article. 145,173; July 9.
Laszlo, Margit F., assignor to Cole of California Inc., Los Angeles, Calif. Swimming suit or the like. 145,174; July 9.
Levy, Abraham, New York, N. Y. Perfume bottle or the like. 145,175; July 9.
Lidz, Maurice N., Woodmere, N. Y. Button or similar article. 145,176; July 9.
Lindberg, Claus E., assignor to Corry-Jamestown Manufacturing Corporation, Corry, Pa. Drawer handle or similar article. 145,177; July 9.
MacRae, Alistair L., San Diego, Calif. Desk name plate. 145,178; July 9.
Malinowski, Harry A., assignor to The Ellmore Silver Co., Inc., Meriden, Conn. Spoon or other article of flatware. 145,179; July 9.
Malinowski, Harry A., Meriden, Conn., assignor to The Ellmore Silver Co., Inc. Spoon or other article of flatware. 145,180; July 9.
Malinowski, Harry A., Meriden, Conn., assignor to The Ellmore Silver Co., Inc. Spoon or other article of flatware. 145,181; July 9.
Mallard, Elroy S., Georgetown, Ky. Pencil ferrule. 145,182; July 9.
Mesiberg, Philip, Trumbull, Conn. Cigar lighter. 145,183; July 9.
Mohawk Rubber Company, The, assignee: *See*—
Christie, John A.
Oneida Ltd., assignee: *See*—
Allen, Grosvenor N., and Fleming.
Salz Bros. Inc., assignee: *See*—
Green, Warren, and Schladermundt.
Schladermundt, Peter: *See*—
Green, Warren, and Schladermundt.
Simpson, John C., Portland, Oreg. Combination bottle stopper and extractor. 145,184; July 9.
Sport Products, Inc., assignee: *See*—
Bovay, Norman.
Stewart, Donald E., assignor to Winters & Crampton Corporation, Grandville, Mich. Gas control knob for stoves and the like. 145,188; July 9.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,185; July 9.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,186; July 9.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,187; July 9.
Verrecchia, Alfeo, Providence, R. I. Brooch or similar article. 145,189; July 9.
Victor Metal Products Corporation, assignee: *See*—
Derham, Philip A.
Walker, Joset, New York, N. Y. Dress. 145,190; July 9.
Warner, Ernest L., Los Angeles, Calif. Combination cigarette and vanity case. 145,191; July 9.
Winters & Crampton Corporation, assignee: *See*—
Stewart, Donald E.
Zimmer, Myron J., Wood Dale, assignor to Ekco Products Company, Chicago, Ill. Cooking utensil supporting tray. 145,192; July 9.
Ziniti, Evelyn, New York, N. Y. Shoe. 145,193; July 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acme Visible Records, Inc., assignee: *See*—
Zuber, Clarence F.

Adams, Robert A., Brawley, Calif. Mechanical flash lamp. 2,403,702; July 9.

Adolph, Norman W., Grafton, Ill., assignor to Illinois Powder Manufacturing Company, St. Louis, Mo. Coupling. 2,403,839; July 9.

Aetna Ball Bearing Manufacturing Company, assignee: *See*—
Rozner, Joseph J.

Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Bowen, Charles V.

Air Reduction Company, Incorporated, assignee: *See*—
Deming, George M.
Franzen, James F.

Aktiebolaget Separator, assignee: *See*—
Forsberg, Erik A.
Ruda, Gustaf W.

Aktiengesellschaft Adolph Saurer, assignee: *See*—
Bolli, Bernhard.
Lebet, Pierre.

Albertson, Noel F.: *See*—
Nevins, Samuel L., Albertson, and Gilliam.

Alien Property Custodian: *See*—
Burnat, Henri L.
Hagemann, August.
Kehse, Wolfgang.
Wiest, Georg, and Glaser.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Cook, Eugene B.

Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Uno Lamm.

American Air Filter Company, Inc., assignee: *See*—
Nutting, Arthur.

American Allsafe Company, Inc., assignee: *See*—
Campbell, Neil M.

American Brake Shoe Company: *See*—
Carr, Bradley S., and Blakemore.

American Cyanamid Company, assignee: *See*—
Bradley, Chester W.
Dixon, James K., and Sayward.
English, Jackson P.
Kaiser, Donald W.
Winnek, Philip S.

American Home Products Corporation, assignee: *See*—
Ansbacher, Stefan.

American Steel Foundries, assignee: *See*—
Flesch, Norman.

American Steel and Wire Company of New Jersey, The, assignee: *See*—
Boak, Willis E.

American Telephone and Telegraph Company, assignee: *See*—
Cronburg, Claude I.

American Type Founders, Inc., assignee: *See*—
Seybold, Frederick W.

American Well Works, The, assignee: *See*—
Walker, James D.

Anderson, Earl I., Manhasset, N. Y., assignor to Radio Corporation of America. Radio beacon system. 2,403,429; July 9.

Anderson, James N., North Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Apparatus for recording electrical signals. 2,403,472; July 9.

Andrews, Charles F.: *See*—
McFarlane, John W., and Andrews.

Andrews, Earle R., and L. H. Steans, Los Angeles, Calif. Portable shower. 2,403,430; July 9.

Ansbacher, Stefan, Rockville Centre, assignor to American Home Products Corporation, New York, N. Y. Therapeutic compositions. 2,403,473; July 9.

Armstron-Bray & Co., assignee: *See*—
Ogard, Helmer.

Ashurst, Julian, Westmoreland, Calif. Queen bee shipping and introducing cage. 2,403,840; July 9.

Ashworth, Handel, Baldwin, N. Y. Tapping and threading machine. 2,403,484; July 9.

Astatic Corporation, The, assignee: *See*—
Coulter, Kenneth L.

Atwell, Harold Y., Beacon, N. Y., and D. Eastman, Port Arthur, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Separation of aromatic hydrocarbons from hydrocarbon mixtures. 2,403,485; July 9.

Autogiro Company of America, assignee: *See*—
Pitcairn, Harold F.

Aviation Corporation, The, assignee: *See*—
Carpenter, John H.
Gilliard, Ernest T.

Back, Robert, assignor to Bert M. Morris Co., Los Angeles, Calif. Hooded feed bar for pens. 2,403,703; July 9.

Bade, Alfred G., Wauwatosa, assignor to The Falk Corporation, Milwaukee, Wis. Variable-speed transmission. 2,403,627; July 9.

Bailey, Grant C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of olefin-containing mixtures. 2,403,779; July 9.

Baird, John B., assignor to Hudson Engineering Corporation, Houston, Tex. Forced draft cooling tower. 2,403,841; July 9.

Baker & Company, Inc., assignee: *See*—
Maddock, Charles B.

Baker, Richard F.: *See*—
Hillier, James, and Baker.

Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Mold for molding an extensible article. 2,403,780; July 9.

Barbour Welting Company, assignee: *See*—
Vizard, William C.

Barnes Drill Co., assignee: *See*—
Olsen, Joseph O.

Barnes Motor Developments Company, assignee: *See*—
Barnes, William B.

Barnes, William B., Muncie, Ind., assignor to Barnes Motor Developments Company. Overdrive transmission. 2,403,781; July 9.

Barron, Joseph M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Combination catalytic and thermal conversion. 2,403,486; July 9.

Bartleson, John D., assignor to The Standard Oil Company, Cleveland, Ohio. Additives for lubricants. 2,403,894; July 9.

Bartleson, John D., and F. Veatch, assignors to The Standard Oil Company, Cleveland, Ohio. Additive for lubricants. 2,403,474; July 9.

Bascom, Henry M., New York, N. Y., and F. A. Hubbard, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,403,475; July 9.

Bates, Beulah H., assignee: *See*—
Bates, Walter A.

Bates, Walter A., assignor to B. H. Bates, Joliet, Ill. Anchor for gratings. 2,403,842; July 9.

Beam, Vilynn O., B. Cyr, and J. M. Wilson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Resistance bulb thermostat. 2,403,843; July 9.

Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Cathode ray deflection circuit. 2,403,487; July 9.

Beers, George L., Haddonfield, N. J., assignor to Radio Corporation of America. Television pickup control system. 2,403,628; July 9.

Bell, Edward R.: *See*—
Dickey, Frank H., and Bell.
Rust, Frederick F., Dickey, and Bell.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bascom, Henry M., and Hubbard.
Hartman, Paul L.
Kinkead, Fullerton S.
Knab, Emil D.
Laico, Joseph P.
Ranges, John E.
Swart, Leland K.

Belle Weather Incorporated, assignee: *See*—
Tucker, Thomas T.

Bendix Aviation Corporation, assignee: *See*—
Hunt, Scott F.

Bennett, Thomas F., Joplin, Mo., assignor to Hercules Powder Company, Wilmington, Del. Explosive cartridge assembly. 2,403,488; July 9.

Berkey, William E., Wilkinsburg, and E. Hershey, Pittsburgh, Pa., and R. Lamphere, Wilbraham, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignition system. 2,403,629; July 9.

Berry, Kenneth L., Hockessin, and J. R. Downing, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Extrusion apparatus. 2,403,476; July 9.

Biddle, William P., Jr.: *See*—
Sanford, Hugh W., and Biddle.

Biermann, Arnold E., Hampton, Va. Machine for manufacturing spiral vanes. 2,403,573; July 9.

Birmann, Rudolph, Newtown, assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Bearing construction for turbines or the like. 2,403,489; July 9.

Black, William A., Montclair, N. J., assignor, by mesne assignments, to The W. L. Maxson Corporation, New York, N. Y. Remote control mechanism. 2,403,490; July 9.

Blakemore, Arthur L.: *See*—
Carr, Bradley S., and Blakemore.

Blau, Ludwig W., Houston, Tex., assignor to Standard Oil Development Company. Thermal prospecting. 2,403,704; July 9.

Blech, Henry, assignee: *See*—
Seliger, Cornelia R.

Blum, Asher, assignee: *See*—
Kornegg, Heinz-Horst E. Von K. Z.

Blumlein, Alan D., deceased, Ealing, London W. 5, England; D. Blumlein, executor, assignor to Electric & Musical Industries Limited, Hayes, England. Resonator for discharge tubes. 2,403,782; July 9.

Blumlein, Doreen, executor: *See*—
Blumlein, Alan D.

Blunk, Gene D., and H. E. Edwards, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for drying fabrics. 2,403,630; July 9.

Boak, Willis E., Burton, Ohio, assignor to The American Steel and Wire Company of New Jersey. Coated nail. 2,403,783; July 9.

Bogia, Frank D., Clifton, N. J., assignor to Grant Positype Corporation, New York, N. Y. Picture frame. 2,403,491; July 9.

Bolli, Bernhard, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland. Regulation of the scavenging and charging of two-stroke fuel injection internal-combustion engines. 2,403,844; July 9.

Boor, Francis H., Lafayette, Ind., assignor to Fairfield Manufacturing Company. Gear. 2,403,492; July 9.

Bouchard, Frederick J., Radford, Va., R. C. Gunness, Chicago, Ill., and R. L. Stern, South River, N. J., assignors to Hercules Powder Company, Wilmington, Del. Manufacturing nitrocellulose. 2,403,493; July 9.

Bourgeois, Edward J., Burlington, Vt. Rear hub and axle assembly for floating axles. 2,403,494; July 9.

Bowen, Charles V., Bethesda, Md., assignor to the United States of America, as represented by the Secretary of Agriculture. Insecticide. 2,403,495; July 9.

Bowers, Elizabeth M., administratrix: *See*—
Bowers, Thomas A.

Bowers, Thomas A., deceased, Mattapoisett, Mass.; E. M. Bowers, administratrix, assignor of two-thirds to M. H. Hamilton, Lexington, Mass. Piston and piston ring improvement. 2,403,574; July 9.

Brack, Elizabeth A., Dorchester, Mass. Shoe kit. 2,403,575; July 9.

Bradley, Chester W., deceased, Old Greenwich, by M. H. Bradley, administratrix, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Recovering substituted acetamides. 2,403,576; July 9.

Bradley, Margaret, administratrix: *See*—
Bradley, Chester W.

Bradshaw, R. D., & Sons, assignee: *See*—
Bradshaw, Reginald D.

Bradshaw, Reginald D., assignor to R. D. Bradshaw & Sons, Wendell, Idaho. Honey press. 2,403,784; July 9.

Bramson, Ely, assignor to The Bramson Manufacturing Co., Chicago, Ill. Egg candling apparatus. 2,403,705; July 9.

Bramson Manufacturing Co., The, assignee: *See*—
Bramson, Ely.

Breedlove, Charles B., Detroit, Mich. Combined threaded fastener and anchor. 2,403,496; July 9.

Breitwieser, Charles J., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Electromechanical synchronizing mechanism. 2,403,577; July 9.

Bridge, Richard E., South Harrow, England. Automatic stopping of looms. 2,403,497; July 9.

Brittain, Eric H.: *See*—
Tuerck, Karl H. W., and Brittain.

Brittingham, Gerald E., Ontario, Oreg. Cutout device for telephone transmitters. 2,403,498; July 9.

Britton, Edgar C., and J. C. Vander Weele, Midland, assignors to The Dow Chemical Company, Midland, Mich. Alkylation method. 2,403,785; July 9.

Brown, Aldrich M., assignor to A. J. Holifield, Mobile, Ala. Submarine mine. 2,403,845; July 9.

Brown & Bigelow, assignee: *See*—
Phillippi, Matthew H.

Brown, Charles B., McAllen, Tex. Determining the petroleum hydrocarbon content of earth samples. 2,403,631; July 9.

Brown, Leo L., Harlingen, Tex. Crutch tip. 2,403,632; July 9.

Brown, Robert C., Jr., assignee, trustee: *See*—
States, Marshall N.

Browne, Jack, assignor to Diving Equipment and Supply Company, Inc., Milwaukee, Wis. Shoe for divers. 2,403,477; July 9.

Browning, Edwin D., Alameda, Calif. Lay-out machine. 2,403,633; July 9.

Bryant, Eugene E., Bedford, Ohio, assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Metallic coating. 2,403,706; July 9.

Bryers, Harvey A., Dayton, Ohio. Antenna mounting. 2,403,479; July 9.

Buckley, Joseph B.: *See*—
Hohwart, George and E. F., and Buckley.

Budd, Edward G., Manufacturing Company, assignee: *See*—
Tarbox, John P.
Watter, Michael.

Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Wheel. 2,403,634; July 9.

Burgess Battery Company, assignee: *See*—
Wilke, Milton E.

Burnat, Henri L., Paris, France; vested in the Alien Property Custodian. Damping flywheel. 2,403,478; July 9.

California Research Corporation, assignee: *See*—
Cunningham, John R.

Calig, George L., assignee: *See*—
Jansson, Arvid.

Callender's Cable & Construction Co., Ltd., assignee: *See*—
Urmston, James.

Campbell, Neil M., assignor to American Allsafe Company, Inc., Buffalo, N. Y. Making composite bands. 2,403,706; July 9.

Cantrell, Troy L.: *See*—
Smith, Herschel G., and Cantrell.

Carbide and Carbon Chemicals Corporation, assignee: *See*—
Hitchcock, Melville E., and Field.
Murray, Irvin L., Marsh, and Smith.

Carlson, Warren F., New Windsor, Ill. Cross wing airplane construction. 2,403,499; July 9.

Carlson, Wendell L., Haddonfield, N. J., assignor to Radio Corporation of America. System for and method of aircraft radio communication. 2,403,500; July 9.

Carney, Clifford R., Miami, Fla., assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,403,846; July 9.

Carpenter, Albert F., Chicago, Ill. Device for prevention of vapor lock in gasoline lines and the like. 2,403,578; July 9.

Carpenter, John H., Williamsport, Pa., assignor to The Aviation Corporation, New York, N. Y. Lubricating system for two-speed transmissions. 2,403,579; July 9.

Carr, Bradley S., Chicago, and A. L. Blakemore, Glenwood, Ill., assignors to American Brake Shoe Company. Chain. 2,403,635; July 9.

Carroll, Charles V., assignor to Wm. Bros. Boiler & Manufacturing Co., Minneapolis, Minn. Grate. 2,403,787; July 9.

Carruth, Herman A.: *See*—
Williamson, Marshall I., and Carruth.

Carson, Howard: *See*—
Geyer, Howard M., and Carson.

Cartwright, Harold N., Solihull, J. G. Davies, Birmingham, and R. H. Patterson, Solihull, England. Walls and ceilings of buildings. 2,403,580; July 9.

Casella, Secondo L., assignor to Morey Machinery Co., Inc., New York, N. Y. Cross slide. 2,403,581; July 9.

Caudill, Howard F., Oak Park, assignor to Western Foundation Company, Chicago, Ill. Power hammer. 2,403,582; July 9.

Caylor, Daniel A., Suspension, Ala. Grass and weed destroyer. 2,403,847; July 9.

Cefoil Limited, assignee: *See*—
Cunningham, George E., Chamberlain, and Speakman.

Celanese Corporation of America, assignee: *See*—
Plunkett, Brian.

Celotex Corporation, The, assignee: *See*—
Muench, Carl G.

Central Commercial Company, assignee: *See*—
Langer, Nicholas.

Chamberlain, Norman H.: *See*—
Cunningham, George E., Chamberlain, and Speakman.

Chandler-Evans Corporation, assignee: *See*—
Lipfert, Donald E.

Chantland, Alfred, Badger, Iowa. Elevator. 2,403,636; July 9.

Christie, Soren L., Los Angeles, Calif. Rectifier regulating system. 2,403,637; July 9.

Churchill, John A.: *See*—
Cowdrey, Cecil L., and Churchill.

Cities Service Oil Company, assignee: *See*—
Engelke, Ernest F.
Morgan, John D., and Lowe.

City Asphalt and Paving Company, The, assignee: *See*—
Miller, William J.

Clark, Andrew D., Pietermaritzburg, Natal, Union of South Africa. Thrashing machine. 2,403,638; July 9.

Clark Equipment Company, assignee: *See*—
Burger, Frederick W.

Clarke, Gerard J.: *See*—
Malm, Carl J., and Clarke.

Clarke, Louis A., Fishkill, assignor to The Texas Company, New York, N. Y. Alkylation process and products produced thereby. 2,403,501; July 9.

Clary, Hugh L., Hillsborough, and W. H. Petit, assignors, by direct and mesne assignments, to Clary Multiplier Corporation, Los Angeles, Calif. Multiplying unit. 2,403,480; July 9.

Clary Multiplier Corporation, assignee: *See*—
Clary, Hugh L., and Petit.

Clemmer, Julius B., and C. Rampacek, Tuscaloosa, Ala., assignors to the United States of America, as represented by the Secretary of the Interior. Concentrating iron ore. 2,403,481; July 9.

Cloud, William S., Wilmette, Ill. Method and apparatus for wrapping articles. 2,403,482; July 9.

Cohen, Samuel I., Newton, Mass. Garment hanger. 2,403,639; July 9.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Breitwieser, Charles J.
Growald, Henry K.

Continental Can Company, Inc., assignee: *See*—
Coyle, John, and Punte.

Cook, Eugene B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Screen vibrating mechanism. 2,403,502; July 9.

Coulter, Kenneth L., assignor to The Astatic Corporation, Youngstown, Ohio. Detecting system and apparatus. 2,403,503; July 9.

Couse, Kibbey W., Newark, N. J. Power take-off structure. 2,403,848; July 9.

Cowdrey, Cecil L., Hitchin, and J. A. Churchill, Luton, assignors to D. Napier & Son Limited, London, England. Tank. 2,403,850; July 9.

Cox, Claude E., Detroit, Mich. Flow meter metering head. 2,403,849; July 9.

Coyle, John, Baltimore, Md., and W. F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Collar can collar mounting. 2,403,788; July 9.

Crane Co., assignee: *See*—
Hatfield, Arthur W.

Cronburg, Claude I., Cleveland Heights, Ohio, assignor to American Telephone and Telegraph Company. Enciphering and deciphering system. 2,403,888; July 9.

Crooke, Raymond E., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gunfire control computer. 2,403,504; July 9.

Crooke, Raymond E., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Torpedo director. 2,403,505; July 9.

Crown Cork & Seal Company, assignee: *See*—
Enkur, Edward M.

Crowther, George A., Manhasset, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gunfire control computer. 2,403,506; July 9.

Cummins, Claude A., Midland, Mich., assignor to The Dow Chemical Company. Purifying caustic alkali solution. 2,403,780; July 9.

Cunningham, George E., N. H. Chamberlain, and J. B. Speakman, Leeds, assignors to Cefoil Limited, Maidenhead, England. Production of alginic acid compounds. 2,403,707; July 9.

Cunningham, John R., Larkspur, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Separation of cobaltite. 2,403,640; July 9.

Cusic, John W., assignor to G. D. Searle & Co., Skokie, Ill. Tertiary amino derivatives of dihydroanthracene. 2,403,483; July 9.

Cyr, Benjamin: *See*—
Beam, Vilynn O., Cyr, and Wilson.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of a methylene malonic ester and an unsaturated alkyd resin. 2,403,791; July 9.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Preparing a diazine derivative. 2,403,790; July 9.

Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft rigging. 2,403,583; July 9.

Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,403,584; July 9.

Dath, George E., and R. J. Olander, assignors to W. H. Miner, Inc., Chicago, Ill. Draft gear. 2,403,585; July 9.

Davey, Edward P., and E. W. H. Selwyn, Wealdstone, Harrow, England, assignors to Eastman Kodak Company, Rochester, N. Y. Sensitive photographic materials. 2,403,708; July 9.

Davies, James G.: *See*—
Cartwright, Harold N., Davies, and Patterson.

Davio, Joseph C., Agawam, Mass. Billfold. 2,403,507; July 9.

Dawson, George H., Chicago, and P. O. Unger, Elmhurst, assignors to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 2,403,851; July 9.

Deitz, Louis S., Jr., Westfield, N. J., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y. Refining of nonferrous metals. 2,403,586; July 9.

Deming, George M., Orange, N. J., assignor to Air Reduction Company, Incorporated. Aircraft breathing regulator. 2,403,508; July 9.

Den Ouden, Frits J. W., Melbourne, Victoria, Australia. Gunfire synchronizing control. 2,403,641; July 9.

Deach, Joseph R., assignor to The National Cash Register Company, Dayton, Ohio. Electronic device and control means therefor. 2,403,852; July 9.

Dewey and Almy Chemical Company, assignee: *See*—
Isom, Langley W., and Habib.

Dickey, Frank H.: *See*—
Rust, Frederick F., Dickey, and Bell.

Dickey, Frank H., Oakland, Calif., and E. R. Bell, Norwalk, Ohio, assignors to Shell Development Company, San Francisco, Calif. Production of organic peroxides. 2,403,709; July 9.

Dise, Foster C., Akron, Ohio. Acrobatic toy. 2,403,509; July 9.

Distillers Company Limited, The, assignee: *See*—
Tuerck, Karl H. W., and Brittain.

Di Toro, Michael J., Brooklyn, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Telemetering system. 2,403,889; July 9.

Diving Equipment and Supply Company, Inc., assignee: *See*—
Browne, Jack.

Dixon, James K., Riverside, and J. M. Sayward, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. 2-Brompyrazine and preparing same. 2,403,710; July 9.

Dobrin, Harry, assignor to Furnace Engineers, Inc., Pittsburgh, Pa. Gas burner. 2,403,431; July 9.

Douden, William L.: *See*—
Sachtleben, Lawrence T., and Douden.

Dow Chemical Company, The, assignee: *See*—
Britton, Edgar C., and Vander Weele.
Cummins, Claude A.
Hammer, Oscar H.

Downing, Joseph R.: *See*—
Berry, Kenneth L., and Downing.

Doyle, Irving W., Massapequa, and R. A. White, Pleasantville, N. Y., assignors to Fairchild Camera and Instrument Corp. Camera magazine. 2,403,587; July 9.

Drake, Earl D., assignor to Gibson Refrigerator Company, Greenvile, Mich. Refrigerator cabinet. 2,403,588; July 9.

Draxler, John A., Cleveland Heights, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Terminal block for motors and the like. 2,403,642; July 9.

Dresser, George L., Albany, N. Y. Method of and apparatus for introducing grout into subsoil. 2,403,643; July 9.

Dritz, Lawrence L., Lawrence, N. Y. Pocket lighter. 2,403,589; July 9.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Berry, Kenneth L., and Downing.
Goldrick, Richard M., and Marks.
Pease, Donald C.
Rollinson, Carl L.
Smith, Albert F.

Eastern Tool and Manufacturing Company, assignee: *See*—
Elwell, George H.

Eastman, Du Bois: *See*—
Atwell, Harold V., and Eastman.

Eastman Kodak Company, assignee: *See*—
Davey, Edward P., and Selwyn.
Egan, John F.
Harvey, Douglass C.
Jelley, Edwin E., and Vittum.
MacNeille, Stephen M.
Malm, Carl J., and Clarke.
McFarlane, John W., and Andrews.
Mihalyi, Joseph.

Eaton, Thomas T., Haddon Heights, N. J., assignor to Radio Corporation of America. Low-frequency deflecting circuit. 2,403,510; July 9.

Edelman, Isadore, Detroit, Mich. Ball holding and ball release mechanism. 2,403,590; July 9.

Edwards, Hilbert E.: *See*—
Blunk, Gene D., and Edwards.

Egan, John F., assignor to Eastman Kodak Company, Rochester, N. Y. Control for photographic copying apparatus. 2,403,711; July 9.

Eitel-McCullough, Inc., assignee: *See*—
Norton, Robert L.

Electric & Musical Industries Limited, assignee: *See*—
Blumlein, Alan D.

Elwell, George H., New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Slide loop. 2,403,712; July 9.

Elwell-Parker Electric Company, The, assignee: *See*—
Draxler, John A.

Emmer, Charles E., assignor to General Binding Corporation, Chicago, Ill. Machine for forming plastic binders. 2,403,644; July 9.

Engelke, Ernest F., Merchantville, N. J., assignor to Cities Service Oil Company, New York, N. Y. Di-phosphorus esters and manufacturing. 2,403,792; July 9.

English, Jackson P., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of 4-basically substituted 2-sulphanilamidopyrimidines. 2,403,713; July 9.

Enkur, Edward M., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Container closure. 2,403,511; July 9.

Etchells, Eugene B., assignor to General Motors Corporation, Detroit, Mich. Making bearings. 2,403,645; July 9.

Evershed & Vignoles Limited, assignee: *See*—
Needham, John C.

Ewart, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Mount for machine guns. 2,403,591; July 9.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Doyle, Irving W., and White.

Fairfield Manufacturing Company, assignee: *See*—
Boor, Francis H.

Falge, Robert N., G. W. Onksen, Jr., and W. R. Goris, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Black-out headlamp. 2,403,646; July 9.

Falk Corporation, The, assignee: *See*—
Bade, Alfred G.

Farley & Loetscher Manufacturing Company, assignee: *See*—
Triller, Benjamin J.

Federal Reserve Bank of Philadelphia, assignee: *See*—
Birmann, Rudolph.

Feinstein Knitting Mills, assignee: *See*—
Feinstein, Louis N.

Feinstein, Louis N., Brooklyn, assignor to S., R., and L. N. Feinstein, doing business as Feinstein Knitting Mills, New York, N. Y. Knitted fabric. 2,403,793; July 9.

Feinstein, Rebecca, assignee, et al.: *See*—
Feinstein, Louis N.

Feinstein, Sam, assignee, et al: *See*—
Feinstein, Louis N.

Fidelity Machine Company, Inc., assignee: *See*—
Larkin, Walter.

Field, John A.: *See*—
Hitchcock, Melville E., and Field.

Fike, Charles H., and H. R. Heinzen, Cleveland, Ohio, assignors to General Motors Corporation, Detroit, Mich. Ship drive and control system. 2,403,647; July 9.

Fisk, Arthur, New York, N. Y., assignor of one-half to B. Mahler, Detroit, Mich. Detachable heel. 2,403,592; July 9.

Flesch, Norman, assignor to American Steel Foundries, Chicago, Ill. Slack adjuster. 2,403,512; July 9.

Focht, Nevin S., Syracuse, N. Y. Hydraulic shock absorber. 2,403,648; July 9.

Ford Instrument Company, Inc., assignee: *See*—
Crooke, Raymond E.
Crowther, George A.
Newell, William H.

Forest City Products, Inc., assignee: *See*—
Nutt, Albert R.

Forsberg, Erik A., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Device for determining the deflection of rotating bodies. 2,403,513; July 9.

Foster, Pell W., Jr., Englewood, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generating apparatus. 2,403,432; July 9.

Foster Wheeler Corporation, assignee: *See*—
Foster, Pell W., Jr.

Franklin, Robert B. W., Dallas, Tex. Amusement device. 2,403,593; July 9.

Franzen, James F., Chicago, Ill., assignor to Air Reduction Company, Incorporated. Apparatus for cutting metal along curved lines. 2,403,514; July 9.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon reconstruction. 2,403,649; July 9.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Reconstruction of paraffins. 2,403,650; July 9.

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,403,714; July 9.

Fromson, Bertram W., Manchester, England. Extendible bearer or support for temporary or permanent use in building construction. 2,403,853; July 9.

Fulke, Frank L., Terre Haute, Ind. Method of and apparatus for making bits. 2,403,651; July 9.

Fuller, Allen R., assignor to A. E. Staley Manufacturing Co., Decatur, Ill. Sizing material. 2,403,515; July 9.

Fullerton, George H., Laurel Park, N. C., and T. V. Moss, Hunting Valley, Ohio. Cordlike product. 2,403,652; July 9.

Fulton Company, The, assignee: *See*—
Thorp, Joel R., and Strand.

Furnace Engineers, Inc., assignee: *See*—
Dobrin, Harry.

Gaddini, Norman E., Winters, Calif. Fruit halving and pitting machinery. 2,403,516; July 9.

Gaddini, Norman E., Winters, Calif. Fruit holder. 2,403,517; July 9.

Gaddini, Norman E., Winters, Calif. Holding unit for fruit. 2,403,518; July 9.

Gallusser, Hans, Geneva, Switzerland. Electric furnace process for producing molten iron from iron ore. 2,403,715; July 9.

Gardiner, Duncan B., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,403,519; July 9.

Garrett, Daniel N., assignee: *See*—
O'Gorman, William F.

Gelbman, Louis, Yonkers, N. Y. Sintering apparatus. 2,403,433; July 9.

General Aniline Film Corporation, assignee: *See*—
Kaszuba, Frank J.

General Binding Corporation, assignee: *See*—
Emmer, Charles E.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
D'Alelio, Gaetano F.
D'Alelio, Gaetano F., and Underwood.
Hahn, William C.
Heath, Charles F.
Kearsley, William K.
Newell, Heber L.
Van Brunt, Charles G.

General Hardware Mfg. Co. Inc., assignee: *See*—
Nissenbaum, Moses D.

General Motors Corporation, assignee: *See*—
Carney, Clifford R.
Etchells, Eugene B.
Falge, Robert N., Onksen, and Goris.
Fike, Charles H., and Heinzen.
Geyer, Howard M., and Carson.
Martin, Edward J., and Grinstead.
Wilson, Ernest E.
Wittlinger, Leonard M.

Geohegan, William A., Flushing, and R. E. Phipps, Baldwin, N. Y., assignors to the United States of America, as represented by the Secretary of War. Shoulder harness take-up and inertia lock. 2,403,653; July 9.

Gerdes, August F., Clinton, Iowa. Welder's armrest. 2,403,654; July 9.

Gerner, Theodore C., Oklahoma City, Okla. Drive shaft bushing assembly. 2,403,520; July 9.

Geyer, Howard M., and H. Carson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Pump. 2,403,854; July 9.

Gibson Refrigerator Company, assignee: *See*—
Drake, Earl D.

Gilbert and Bennett Manufacturing Company, The, assignee: *See*—
Miller, David H., Knowles, and Hughes.

Gilbert, Frank, Jr., Olmsted Falls, Ohio. Container closure and closing containers. 2,403,855; July 9.

Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electronic microammeter. 2,403,521; July 9.

Gilliam, James S.: *See*—
Nevins, Samuel L., Albertson, and Gilliam.

Gilliard, Ernest T., Trout Run, Pa., assignor to The Aviation Corporation, New York, N. Y. Clutch mechanism for variable-speed gearing. 2,403,594; July 9.

Glaser, Heinrich: *See*—
Wiest, Georg, and Glaser.

Goldberg, Harold, Irondequoit, and W. C. Thompson, assignors to Stromberg-Carlson Company, Rochester, N. Y. Combined amplifier and power supply circuit. 2,403,716; July 9.

Goldrick, Richard M., Arlington, and B. M. Marks, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Visible light transparent plastic. 2,403,794; July 9.

Goldstein, William V., Freehold, and L. Shooman, Belmar, N. J. Striker toy. 2,403,522; July 9.

González, Alberto A., San Francisco, Calif. Automobile illuminating arrangement. 2,403,856; July 9.

Goodrich, B. F., Company, The, assignee: *See*—
Skeyhan, Fred G.

Goris, William R.: *See*—
Falge, Robert N., Onksen, and Goris.

Grant Positype Corporation, assignee: *See*—
Bogia, Frank D.

Graves, John R., Yonkers, assignor to The Standard Stoker Company, Incorporated, New York, N. Y. Grate bearer bar. 2,403,857; July 9.

Grimes, Harry C., Elkins, W. Va. Apparatus for smoothing and drying garments. 2,403,655; July 9.

Grinstead, Carl E.: *See*—
Martin, Edward J., and Grinstead.

Grobstein, Albert, Washington, D. C. Incendiary with high penetrating power. 2,403,656; July 9.

Groom, Roy L., and R. E. Parrish, Sr., Jackson, Tenn. Live minnow and small fish receptacle. 2,403,858; July 9.

Growald, Henry K., Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation. Aircraft. 2,403,595; July 9.

Gulden, Kenneth C., Gladstone, assignor to Minnesota Mining & Manufacturing Company St. Paul, Minn. Abrading and polish implement. 2,403,434; July 9.

Gulf Oil Corporation, assignee: *See*—
Smith, Herschel G., and Cantrell.

Gunness, Robert C.: *See*—
Bouchard, Frederick J., Gunness, and Stern.

Gwinn, Joseph M., Jr., San Diego, Calif. Aircraft undercarriage. 2,403,523; July 9.

Habib, Emile E.: *See*—
Isom, Langley W., and Habib.

Hagemann, August, Duisburg-Meiderich, Germany; vested in the Alien Property Custodian. Preparation of high grade antiknock motor fuels. 2,403,524; July 9.

Hahn, William C., Scotia, N. C., assignor to General Electric Company. High-frequency apparatus. 2,403,795; July 9.

Hamilton, Monroe H., assignee: *See*—
Bowers, Thomas A.

Hammer, Oscar H., South Haven, assignor to The Dow Chemical Company, Midland, Mich. Parasiticide composition. 2,403,435; July 9.

Hammermill Paper Company, assignee: *See*—
Samson, Edward W.

Hanna Engineering Works, assignee: *See*—
Hanna, John C.

Hanna, John C., assignor to Hanna Engineering Works, Chicago, Ill. Gear pump. 2,403,796; July 9.

Hardrath, Albert, Jr.: *See*—
Hardrath, Albert, Sr., and A., Jr.

Hardrath, Albert, Sr., and A., Jr., Unity, Wis.; said A. Hardrath, Jr., assignor to said A. Hardrath, Sr. Cattle gutter guard. 2,403,525; July 9.

Hargrett, Wilson W., Wyandotte, Mich. Ventilator. 2,403,596; July 9.

Harris, William N., Atlanta, Ga. Dishwashing machine. 2,403,526; July 9.

Hartman, Paul L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,403,444; July 9.

Harvey, Douglass C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic apparatus. 2,403,717; July 9.

Harvey, Robert L., Princeton, N. J., assignor to Radio Corporation of America. Insulating and dielectric materials. 2,403,657; July 9.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Hatfield, Arthur W., assignor to Crane Co., Chicago, Ill. Testing device. 2,403,659; July 9.

Hauck, Thomas F., Roscoe, Calif. Accessory to turnbuckle wrench. 2,403,718; July 9.

Hayman, Charles M., Brooklyn, N. Y. Gyroscopic steering mechanism. 2,403,658; July 9.

Hayward, Roger, Pasadena, Calif. Apparatus for surface generation. 2,403,659; July 9.

Hayward, Roger, Pasadena, Calif. Optical system for cameras. 2,403,660; July 9.

Hazeltine Research, Inc., assignee: *See*—
Di Toro, Michael J.
Johnson, John K.
Loughren, Arthur V.

Heath, Charles F., Schenectady, N. Y., assignor to General Electric Company. Combustion unit. 2,403,860; July 9.

Heglund, Carl E.: *See*—
Holton, George E., Heglund, and Manson.

Heigis, Henry E., West Orange, assignor to Specialties Development Corporation, Bloomfield, N. J. Inflation device. 2,403,436; July 9.

Heinzen, Harry R.: *See*—
Fike, Charles H., and Heinzen.

Helbush, Herman H., assignee: *See*—
Wallace, Frank C.

Helmers, Carl J.: *See*—
Schulze, Walter A., and Helmers.

Hercules Powder Company, assignee: *See*—
Bennett, Thomas F.
Bouchard, Frederick J., Gunness, and Stern.
Spurlin, Harold M.

Hersey, Donald S., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Engine cowling. 2,403,797; July 9.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Pulse-echo distance indicator. 2,403,527; July 9.

Hershey, Albert E.: *See*—
Berkey, William E., Hershey, and Lamphere.

Higham, William W., Marion, Ohio, assignor, by mesne assignments, to International Detrola Corporation, Elkhart, Ind. Refrigerating apparatus. 2,403,528; July 9.

Hillgren, Carl A., Los Angeles, Calif. Door lock. 2,403,597; July 9.

Hillier, James, Collingswood, and R. F. Baker, Merchantville, N. J., assignors to Radio Corporation of America. Electron microscope. 2,403,529; July 9.

Hinckley-Myers Division of Kent-Moore Organization, Inc., assignee: *See*—
Holton, George E., Heglund, and Manson.

Hitchcock, Melville E., South Charleston, and J. A. Field, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Cyclic butadiene process. 2,403,743; July 9.

Hochfelder, Patricia, Woodmere, N. Y. Garment construction. 2,403,598; July 9.

Hocott, Claude R., Houston, Tex., assignor to Standard Oil Development Company. Evaporation tower for cooling suspensions. 2,403,719; July 9.

Hohwart, Ernest F.: *See*—
Hohwart, George and E. F., and Buckley.

Hohwart, George, Orchard Lake, E. F. Hohwart, Detroit, and J. B. Buckley, assignors to N. A. Woodworth Company, Ferndale, Mich. Diaphragm chuck. 2,403,599; July 9.

Holifield, A. J., assignee: *See*—
Brown, Aldrich M.

Holmes, Gifford I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Summer-winter control instrument. 2,403,798; July 9.

Holmes, Ralph S.: *See*—
Wolff, Irving, and Holmes.

Holmes, Ralph S., Haddonfield, and J. P. Smith, Erlton, N. J., assignors to Radio Corporation of America. Receiver for pulse position indicating systems. 2,403,600; July 9.

Holton, George E., C. E. Heglund, and J. V. Manson, assignors to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich. Tensiometer. 2,403,799; July 9.

Holtzman, Abraham, New York, N. Y. Album picture holder. 2,403,530; July 9.

Hoof Products Company, assignee: *See*—
Sprague, Robert B.

Hoover Company, The, assignee: *See*—
Kitto, William H.

Hoover, Edwin E.: *See*—
Hoover, Frank M. and E. E.

Hoover, Frank M. and E. E., assignors to Hoover Products, Inc., Youngstown, Ohio. Roly-poly device. 2,403,531; July 9.

Hoover Products, Inc., assignee: *See*—
Hoover, Frank M. and E. E.

Hoover, Walter S., Montreal, Quebec, Canada. Hydraulic compensating propeller. 2,403,532; July 9.

Hoyler, Cyril N., Audubon, N. J., assignor to Radio Corporation of America. Method of and apparatus for drying moisture laden articles. 2,403,800; July 9.

Hubbard, Francis A.: *See*—
Bascom, Henry M., and Hubbard.

Hudson Engineering Corporation, assignee: *See*—
Baird, John B.

Hughes, Grover A., Seattle, Wash. Welding method. 2,403,438; July 9.

Hughes, Wilfred A.: *See*—
Miller, David H., Knowles, and Hughes.

Hunt, Scott F., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,403,720; July 9.

Hurley, Albert B., Huntington, N. Y. Collapsible motion-picture-screen assembly. 2,403,661; July 9.

Hurley, Samuel C., Jr., Danville, Ill. Article rotating apparatus. 2,403,662; July 9.

Hydraulic Development Corporation, Inc., The, assignee: *See*—
Muller, Johan A.

Illinois Powder Manufacturing Company, assignee: *See*—
Adolph, Norman W.

Independent Pneumatic Tool Company, assignee: *See*—
Mitchell, Walter G.

Industrial Rayon Corporation, assignee: *See*—
McLellan, Kenneth M.

Interchemical Corporation, assignee: *See*—
Massarene, James S.
Ransom, Olive S., and Zucker.

Interior, United States of America, as represented by the Secretary of the: *See*—
Clemmer, Julius B., and Rampacek.

International Business Machines Corporation, assignee: *See*—
Rabenda, Edward J., and Kistner.
Rast, Frederick Q.

International Detrola Corporation, assignee: *See*—
Higham, William W.

Ipatieff, Vladimir N., and G. S. Monroe, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerizing mono-olefins. 2,403,439; July 9.

Isom, Langley W., Belmont, and E. E. Habib, Arlington, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Balloon valve. 2,403,801; July 9.

Jackson, Jules, New York, N. Y. Hair-grip pin. 2,403,601; July 9.

Jacobs Manufacturing Company, The, assignee: *See*—
Stoner, Arthur M.

Jansson, Arvid, Wilkinsburg, assignor of one-half to G. L. Callg, Pittsburgh, Pa. Internal-combustion engine. 2,403,440; July 9.

Jelley, Edwin E., and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. Preventing color fog in photographic material. 2,403,721; July 9.

Jelley, Edwin E., and L. S. Wilder, assignors to Eastman Kodak Company, Rochester, N. Y. Camouflage detection. 2,403,722; July 9.

Johnson, John K., Douglaston, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Telemetering system. 2,403,890; July 9.

Kaiser, Donald W., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of 1,2,4-oxadiazoles. 2,403,723; July 9.

Kalichevsky, Vladimir A.: *See*—
Payne, John W., Noll, and Kalichevsky.

Kaszuba, Frank J., Binghamton, assignor to General Aniline Film Corporation, New York, N. Y. Nonstatic photographic film. 2,403,533; July 9.

Katzberg, Eugene, Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Reversible operating mechanism. 2,403,802; July 9.

Kaufmann, John J., Jr., Greenville, S. C., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom shuttle. 2,403,724; July 9.

Kay-Fries Chemicals, Inc., assignee: *See*—
Kesslin, George, and Nicholl.

Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. Electric blanket. 2,403,803; July 9.

Kehse, Wolfgang, Berlin-Karlshorst, Germany; vested in The Alien Property Custodian. Electric current regulator with pressure loaded carbon-pile column. 2,403,534; July 9.

Kesslin, George, New York, and L. Nicholl, Nyack, N. Y., assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Di-P-isobutyl sebacate. 2,403,804; July 9.

Kinkead, Fullerton S., deceased, late of New York, N. Y., by Rita Smith Kinkead, administratrix, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph system. 2,403,441; July 9.

Kinkead, Rita S., administratrix: *See*—
Kinkead, Fullerton S.

Kistner, Harold J.: *See*—
Rabenda, Edward J., and Kistner.

Kitto, William H., Greentown, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,403,602; July 9.

Klaus, Calvin C., Highland, Ill. Shoe. 2,403,442; July 9.

Klemm, William F., Detroit, Mich. Center drill. 2,403,861; July 9.

Knab, Emil D., Lake Parsipany, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impaling instrument. 2,403,443; July 9.

Knowles, Phillips H.: *See*—
Miller, David H., Knowles, and Hughes.

Korn, Arthur, Hoboken, N. J., assignor to Square D Company, Detroit, Mich. Wireless communication. 2,403,603; July 9.

Kornegg, Heinz-Horst E. Von K. Zu, now by judicial change of name Henry Von Kohorn, assignor, by mesne assignments, to Asher Blum, New York, N. Y. Making artificial wool imitation filaments and artificial wool filaments. 2,403,437; July 9.

Kremer, John T., Houston, Tex., assignor to The Texas Company, New York 17, N. Y. Well sounding microphone. 2,403,535; July 9.

Kulla, Michael J., Cleveland, Ohio. Metalworking. 2,403,805; July 9.

Kupec, William J.: *See*—
Rawlins, Albert W., and Kupec.

Laico, Joseph P., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,403,445; July 9.

Laird, Joseph P., assignor to The Wicaco Machine Corporation, Philadelphia, Pa. Base for rayon pumps and the like. 2,403,663; July 9.

Laird, Wilbur G., Pleasantville, N. Y. Storage tank for oils and other liquids. 2,403,604; July 9.

Lakso, Eino E., Fitchburg, Mass. Article delivering apparatus. 2,403,862; July 9.

Lamb, Anthony H., Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Photoelectric cell. 2,403,863; July 9.

Lamm, Uno, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Load current control. 2,403,891; July 9.

Lamphere, Richard L.: *See*—
Berkey, William E., Hershey, and Lamphere.

Lamport, Edward J., Washington, D. C., assignor to Lamport Hydro-Oil Furnace Company, Incorporated. Heat generating apparatus and process. 2,403,446; July 9.

Lamport Hydro-Oil Furnace Company, Incorporated, assignee: *See*—
Lamport, Edward J.

Lane-Wells Company, assignee: *See*—
Meyer Gerhard, and Woodmansee.

Langdon, Jesse D., Downey, Calif. Sea stop. 2,403,806; July 9.

Langer, Nicholas, New York, N. Y., assignor to Central Commercial Company, Chicago, Ill. Solo electrical musical instrument. 2,403,664; July 9.

Lansing, Horace L., Rutherford, N. J., assignor to Poor & Company, New York, N. Y. Rail and joint structure. 2,403,807; July 9.

Larkin, Walter, Norristown, assignor, by mesne assignments, to Fidelity Machine Company, Inc., Philadelphia, Pa. Sinker guide for knitting machines. 2,403,864; July 9.

Laughead, James F., Ottawa, Kans, assignor to Ottawa Steel Products, Incorporated. Power-operated equipment for tractors. 2,403,808; July 9.

Lawrence, Howard C., Jr., Haddonfield, N. J., assignor to Radio Corporation of America. High frequency vacuum tube circuit. 2,403,725; July 9.

Lebet, Pierre, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland. Supercharging control for internal-combustion engines. 2,403,865; July 9.

Lee, Royal, Milwaukee, Wis. Alternating current motor. 2,403,447; July 9.

Lesnick, Robert N., Camden, N. J., assignor to Radio Corporation of America. Speed and acceleration responsive device. 2,403,605; July 9.

Lewis, Jacob D., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Electric motor. 2,403,665; July 9.

Lewis, William H., Altadena, Calif. Mixer. 2,403,536; July 9.

Linde Air Products Company, The, assignee: *See*—
Shorter, Albert E.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse transmission system. 2,403,726; July 9.

Lingel, Frederick J., assignor to R. L. Triplett, Bluffton, Ohio. Frequency meter. 2,403,809; July 9.

Lipfert, Donald E., Meriden, assignor to Chandler-Evans Corporation, South Meriden, Conn. Charge forming device. 2,403,866; July 9.

Lipfert, Donald E., Meriden, assignor to Chandler-Evans Corporation, South Meriden, Conn. Flowmeter. 2,403,867; July 9.

Lloyd, Nicholas P., Wynnewood, Pa. Camshaft assembly. 2,403,868; July 9.

Local Industries, Incorporated, assignee: *See*—
Willson, Charles T.

Lord, Francis L. B., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Insert. 2,403,810; July 9.

Loughren, Arthur V., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Direction-finding system. 2,403,727; July 9.

Loughren, Arthur V., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. System for indicating the position in space of an object. 2,403,728; July 9.

Loughren, Arthur V., Great Neck, N. Y., assigner, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Coordinate determining system. 2,403,729; July 9.

Lovering, Reuben W., Minneapolis, Minn. Time controlled switch mechanism. 2,403,667; July 9.

Lowe, Russell E.: *See*—
Morgan, John D., and Lowe.

Loy, John W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of hydrocarbons. 2,403,811; July 9.

Lubetsky, David, Detroit, Mich. Tool. 2,403,666; July 9.

MacCallum, Claude R., Glasgow, C. 1., Scotland, Antiskid tread. 2,403,812; July 9.

MacDuff, Robert S.: *See*—
Sprinkle, Marshall R., and MacDuff.

MacNeille, Stephen M., assignor to Eastman Kodak Company, Rochester, N. Y. Explosively actuated high-speed shutter. 2,403,730; July 9.

MacNeille, Stephen M., assignor to Eastman Kodak Company, Rochester, N. Y. Beam splitter. 2,403,731; July 9.

MacNeille, Stephen M., Oak Ridge, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Range finder. 2,403,732; July 9.

Maddock, Charles B., St. Louis, Mo., assignor to Baker & Company, Inc., Newark, N. J. Apparatus for forming surfaces of revolution. 2,403,668; July 9.

Mahler, Bradley, assignee: *See*—
Fisk, Arthur.

Mainardi, Marcus N.: *See*—
Mainardi, Pompey and M. N.

Mainardi, Pompey, and M. N. Mainardi, Paterson, N. J. Stereoscopic optical system. 2,403,733; July 9.

Malm, Carl J., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Bottle cap. 2,403,734; July 9.

Manderscheid, James J., Chicago, Ill. Bushings for polishing wheels. 2,403,813; July 9.

Maniscalco, Pietro, Chicago, Ill. Compressor. 2,403,814; July 9.

Manson, James V.: *See*—
Holton, George E., Heglund, and Manson.

Marinsky, Davis, assignee: *See*—
Morin, Louis H.

Marks, Barnard M.: *See*—
Goldrick, Richard M., and Marks.

Marschner, Robert F., Homewood, assignor to Standard Oil Company, Chicago, Ill. Aviation gasoline production. 2,403,869; July 9.

Marsh, Jay L.: *See*—
Murray, Irvin L., Marsh, and Smith.

Martin, Edward J., Pleasant Ridge, and C. E. Grinstead, assignors to General Motors Corporation, Detroit, Mich. Inductor compass. 2,403,669; July 9.

Martin, Glenn L., Company, The, assignee: *See*—
O'Neal, William B.
Pierson, John D.
van Zelm, Willem D.

Martin, Samuel M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Making cords. 2,403,815; July 9.

Martin, Samuel M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Cords and making cord. 2,403,816; July 9.

Martin, Thomas A., Jamaica, N. Y. Brake control for motor vehicles. 2,403,870; July 9.

Martin, William H., Lakewood, Ohio, assignor, by mesne assignments, to Republic Industries, Inc., New York, N. Y. Corrosion-resistant fluid heating tank. 2,403,670; July 9.

Mason, Ralph B., and J. A. Pierce, Baton Rouge, La., assignors to Standard Oil Development Company. Hydrogen chloride manufacture. 2,403,735; July 9.

Massarene, James S., Oradell, N. J., assignor to Interchemical Corporation, New York, N. Y. Phonograph record compositions. 2,403,448; July 9.

Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of olefinic hydrocarbons. 2,403,671; July 9.

Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separation of olefins. 2,403,672; July 9.

Maxson, Clarence G., assignor to Ritter Company, Inc., Rochester, N. Y. Head rest for chairs. 2,403,537; July 9.

Maxson, W. L., Corporation, The, assignee: *See*—
Black, William A.

McBean, Douglas M., Rochester, N. Y. Blanching food products. 2,403,871; July 9.

McCarthy, Raymond T., Holyoke, Mass. Winding mechanism. 2,403,538; July 9.

McCarthy, Timothy F., Indiana, Pa. Scraper loader apparatus. 2,403,817; July 9.

McClaran, John W., U. S. Navy. Strip cipher device. 2,403,736; July 9.

McFarlane, John W., and C. F. Andrews, assignors to Eastman Kodak Company, Rochester, N. Y. Photographing device. 2,403,892; July 9.

McGrath, William L., Syracuse, N. Y., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Refrigeration system. 2,403,818; July 9.

McLellan, Kenneth M., Cleveland, Ohio., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for treating thread and the like. 2,403,819; July 9.

Mead, Elmer C., Scotia, assignor to The Pacific Lumber Company, San Francisco, Calif. Lumber feeding conveyer for saw trimmers. 2,403,673; July 9.

Mehl, Stephen, Jr., Sans Souci, Mich. Buoy. 2,403,539; July 9.

Meneley, Carl A., Princeton, N. J., assignor to Radio Corporation of America. Reciprocal circuit. 2,403,540; July 9.

Meyer, Gerhard, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif. Hose clamp. 2,403,606; July 9.

Meyer, Gerhard, and C. G. Woodmansee, assignor to Lane-Wells Company, Los Angeles, Calif. Hose clamp. 2,403,449; July 9.

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Mount for optical elements. 2,403,737; July 9.

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Range finder construction. 2,403,738; July 9.

Miller, David H., P. H. Knowles, and W. A. Hughes, Wilton, assignors to The Gilbert and Bennett Manufacturing Company, Georgetown, Conn. Molded friction element. 2,403,674; July 9.

Miller, Kenneth J., Binghamton, N. Y., assignor to Owens-Corning Fiberglas Corporation. Treatment of glass fibers. 2,403,872; July 9.

Miller, William J., assignor to The City Asphalt and Paving Company, Youngstown, Ohio. Spreader box. 2,403,820; July 9.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Dath, George E., and Olander.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Beam, Vilynn O., Cyr, and Wilson.
Holmes, Gifford I.
McGrath, William L.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Gulden, Kenneth C.

Mitchiel, Walter G., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Tool for installing tubular rivets. 2,403,675; July 9.

Modlinski, Michael, Chicago, Ill. Heat and cold applicator. 2,403,676; July 9.

Molat, Joseph H., New York, N. Y. Anchoring device. 2,403,541; July 9.

Monroe, George S.: *See*—
Ipatieff, Vladimir N., and Monroe.

Morey Machinery Co., Inc., assignee: *See*—
Casella, Secondo L.

Morgan, John D., South Orange, and R. B. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y. Polishing cloth. 2,403,821; July 9.

Morin, Louis H., assignor of one-half to Davis Marinsky, Bronx, N. Y. Forming separable fastener scoops. 2,403,739; July 9.

Morlock, William J., and R. C. Willman, Indianapolis, Ind., assignors to Radio Corporation of America. Quick detachable audio-frequency connector. 2,403,677; July 9.

Morris, Bert M., Co., assignee: *See*—
Back, Robert.

Morton, Paul D., Riverview, and J. F. Olin, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Synthetic resins and manufacture thereof. 2,403,450; July 9.

Moss, Theron V.: *See*—
Fullerton, George H. and Moss.

Muench, Carl G., Wilmette, assignor to The Celotex Corporation, Chicago, Ill. Apparatus for separating shot particles from mineral wool. 2,403,740; July 9.

Muller, Johan A., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Cylindrical press structure. 2,403,822; July 9.

Mumma, Robert E., assignor to The National Cash register Company, Dayton, Ohio. Impulse emitter. 2,403,873; July 9.

Murray, Irvin L., Charleston, J. L. Marsh, South Charleston, W. Va., and S. P. Smith, Jr., Louisville, Ky., assignors to Carbide and Carbon Chemicals Corporation. Process for making butadiene. 2,403,741; July 9.

Murray, Irvin L., Charleston, J. L. Marsh, South Charleston, W. Va., and S. P. Smith, Jr., Louisville, Ky., assignors to Carbide and Carbon Chemicals Corporation. Making butadiene. 2,403,742; July 9.

Napier, D., & Son, Limited, assignee: *See*—
Cowdrey, Cecil L. and Churchill.

Nassau Smelting & Refining Company, Incorporated, assignee: *See*—
Deitz, Louis S., Jr.

National Carbon Company, Inc., assignee: *See*—
Skinner, George M.

National Cash Register Company, The, assignee: *See*—
Desch, Joseph R.
Mumma, Robert E.

National Folding Box Company, assignee: *See*—
Williamson, Marshall L., and Carruth.

Needham, John C., assignor to Evershed & Vignoles Limited, Chiswick, London, England. Electrical follow-up device. 2,403,874; July 9.

Nelson, Averd, and H. H. Niemann, assignors to Prentiss Wabers Products Co., Wisconsin Rapids, Wis. Manifold support. 2,403,823; July 9.

Neumann, William A., Rego Park, N. Y. Stuffing box. 2,403,875; July 9.

Nevins, Samuel L., Little Rock, Ark., N. F. Albertson, Columbus, Ohio, and J. S. Gilliam, Shreveport, La., assignors to Southern Acid and Sulphur Co., Inc., St. Louis, Mo. Extraction of sulphur from gases. 2,403,451; July 9.

Newell, Heber L., Bridgeport, Conn., assignor to General Electric Company. Control device. 2,403,824; July 9.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Torpedo data computer. 2,403,542; July 9.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gunfire control computer. 2,403,543; July 9.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gunfire control computer. 2,403,544; July 9.

Niagara Blower Company, assignee: *See*—
Stutz, Robert C.

Nicholl, Leonard: *See*—
Kesslin, George, and Nicholl.

Nicholson, Frank H., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Code detecting means. 2,403,744; July 9.

Niemann, Harold H.: *See*—
Nelson, Averd, and Niemann.

Nissenbaum, Moses D., Brooklyn, assignor, by mesne assignments to General Hardware Mfg. Co. Inc., New York, N. Y. Drill case. 2,403,825; July 9.

Noll, Henry D.: *See*—
Payne, John W., Noll, and Kalichevsky.

Nord, Friedrich F., Bronx, N. Y. Glycol esters and producing same. 2,403,876; July 9.

Norman, Ernest B., New Orleans, La. Coupling nozzle for air grease guns. 2,403,678; July 9.

North American Aviation, Inc., assignee: *See*—
Villepigue, Julius G.

Norton, James F.: *See*—
Snyder, Jacob R., and Norton.

Norton, Robert L., Burlingame, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Apparatus and method for making tubes. 2,403,745; July 9.

Novak, Stephen T., United States Army, Dayton, Ohio. Safety plug. 2,403,452; July 9.

Nutt, Albert R., Lakewood, Ohio, assignor to Forest City Products, Inc., Cleveland, Ohio. Mounting and display cards. 2,403,746; July 9.

Nutting, Arthur, assignor to American Air Filter Company, Inc., Louisville, Ky. Dust arrester liquid level control. 2,403,545; July 9.

Ogard, Helmer, assignor to Armstrong-Bray & Co., Chicago, Ill. V-belt construction. 2,403,607; July 9.

O'Gorman, William F., New York, N. Y., assignor of one-half to Daniel N. Garrett, Middletown, N. J. Microfilm reader. 2,403,747; July 9.

Olander, Roland J.: *See*—
Dath, George E., and Olander.

Olin, John F.: *See*—
Morton, Paul D., and Olin.

Olin, John F., Grosse Ile, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of 2,6, di-halo phenols. 2,403,748; July 9.

Olsen, Joseph O., assignor to Barnes Drill Co., Rockford, Ill. Method and apparatus for honing. 2,403,546; July 9.

O'Neal, William B., Ellicott City, assignor to The Glenn L. Martin Company, Middle River, Md. Fuel tank vent. 2,403,749; July 9.

Onksen, George W., Jr.: *See*—
Falge, Robert N., Onksen, and Goris.

Otis Elevator Company, assignee: *See*—
Lewis, Jacob D.

Ottawa Steel Products, Incorporated, assignee: *See*—
Laughead, James F.

Otto, Ferdinand P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,403,453; July 9.

Oulmet, Emil R., Brockton, Mass. Welt and making the same. 2,403,750; July 9.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Miller, Kenneth J.

Owens, Freeman H., New York, N. Y. Program preselecting and control apparatus. 2,403,454; July 9.

Pacific Lumber Company, The, assignee: *See*—
Mead, Elmer C.

Palmer, Jewell S., Baytown, Tex., assignor to Standard Oil Development Company. Throttling valve. 2,403,751; July 9.

Parrish, Roger E., Sr.: *See*—
Groom, Roy L., and Parrish.

Patterson, Reginald H.: *See*—
Cartwright, Harold N., Davies, and Patterson.

Payne, John W., Woodbury, and Henry D. Noll, Wenonah, and Vladimir A. Kalichevsky, Woodbury, N. J., assignors to Socony Vacuum Oil Company, New York, N. Y. Method of coking oils. 2,403,608; July 9.

Pease, Donald C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of hydroxyl-containing interpolymers of ethylene. 2,403,465; July 9.

Perkins, Theodore B., West Orange, N. J., assignor to Radio Corporation of America. Photoelectric system. 2,403,609; July 9.

Peschardt, William J. S., Pinner, England. Manufacture of artificial edible cherries, soft sheets, and the like. 2,403,547; July 9.

Petit, William H.: *See*—
Clary, Hugh L., and Petit.

Phillippi, Matthew H., assignor to Brown & Bigelow, St. Paul, Minn. Flexible reflex reflecting film. 2,403,752; July 9.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston. 2,403,455; July 9.

Phillips Petroleum Company, assignee: *See*—
Bailey, Grant C.
Frey, Frederick E.
Loy, John W.
Matuszak, Maryan P.
Schulze, Walter A., and Helmers.

Phipps, Raymond E.: *See*—
Geohegan, William A., and Phipps.

Pierce, Jerry A.: *See*—
Mason, Ralph B., and Pierce.

Pierce, Jerry A., and W. E. Spicer, Baton Rouge, La., assignors to Standard Oil Development Company. Catalysts. 2,403,753; July 9.

Pierson, John D., Overlea, assignor to The Glenn L. Martin Company, Middle River, Md. Seaplane sponson. 2,403,754; July 9.

Pinard, William J., Manchester, N. H. Latch-accommodating keeper unit. 2,403,826; July 9.

Pioneer Parachute Company, Inc., assignee: *See*—
Smith, Floyd.

Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft hold-down device. 2,403,456; July 9.

Plunkett, Brian, Cumberland, Md., assignor to Celanese Corporation of America. Stop motion. 2,403,548; July 9.

Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Modulation system for television. 2,403,549; July 9.

Poirier, Ernest, Waterville, Maine. Method of and apparatus for producing a head in response to the consistency of papermaking stock. 2,403,827; July 9.

Poor & Company, assignee: *See*—
Lansing, Horace L.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Mechanical ciphering system. 2,403,679; July 9.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Ciphering system. 2,403,680; July 9.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Ciphering system. 2,403,681; July 9.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Mechanical ciphering system. 2,403,682; July 9.

Powell, Winfred T., assignor to Stromberg-Carlson Company, Rochester, N. Y. Telephone line circuit. 2,403,877; July 9.

Prentiss Wabers Products Co., assignee: *See*—
Nelson, Averd, and Niemann.

Pride, Alfred M., U. S. Navy. Landing-deck light. 2,403,610; July 9.

Punte, William F.: *See*—
Coyle, John, and Punte.

Rabenda, Edward J., Binghamton, and H. J. Kistner, Union, assignors to International Business Machines Corporation, New York, N. Y. Sorting machine. 2,403,550; July 9.

Radio Corporation of America, assignee: *See*—
Anderson, Earl I.
Bedford, Alda V.
Beers, George L.
Carlson, Wendell L.
Eaton, Thomas T.
Harvey, Robert L.
Hershberger, William D.
Hillier, James, and Baker.
Holmes, Ralph S., and Smith.
Hoyler, Cyril N.
Lawrence, Howard C., Jr.
Lesnick, Robert N.
Lindenblad, Nils E.
Meneley, Carl A.
Morlock, William J., and Willman.
Perkins, Theodore B.
Poch, Waldemar J.
Rankin, John A.
Sachtleben, Lawrence T., and Douden.
Sanders, Royden C., Jr.
Seeley, Stuart W.
Smith, John P.
Tuska, Clarence D.
Wolff, Irving.
Wolff, Irving, and Holmes.

Rampacek, Carl: *See*—
Clemmer, Julius B., and Rampacek.

Randall, Eddie P., Los Angeles, Calif. Comb. 2,403,551; July 9.

Ranges, John E., East Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Terminal strip for inductive devices. 2,403,457; July 9.

Rankin, John A., Port Washington, N. Y., assignor to Radio Corporation of America. Regenerative indicating system. 2,403,755; July 9.

Ransom, Olive S., New York, and M. Zucker, New Rochelle, assignors to Interchemical Corporation, New York, N. Y. Solvent extraction of drying oils. 2,403,458; July 9.

Rast, Frederick Q., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Clock. 2,403,552; July 9.

Rawlins, Albert W., Flushing, and W. J. Kupec, Forest Hills, N. Y., said Kupec assignor to said Rawlins. Turnbuckle. 2,403,828; July 9.

Ray, William A., Glendale, Calif., assignor to General Controls Co. Reset valve and control therefor. 2,403,611; July 9.

Read, Robert E., Savannah, Ga., assignor to Union Bag & Paper Corporation, New York, N. Y. Sewed bag closure. 2,403,756; July 9.

Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Isomerizing dialkyl benzenes. 2,403,757; July 9.

Reichstein, Tadeus, Basel, Switzerland. Compounds of the cyclopentanopolyhydrophenanthrene series and making same. 2,403,683; July 9.

Republic Industries, Inc., assignee: *See*—
Martin, William H.

Reynolds Metals Company, assignee: *See*—
Zdanaitis, Vit.

Reynolds, Robert L., Washington, D. C., and H. M. Rice, Syracuse, assignors to The Solvay Process Company, New York, N. Y. Removing greasy deposits from concrete, wood, and tile surfaces. 2,403,612; July 9.

Reynolds, Robert L., Washington, D. C., and H. M. Rice, Syracuse, assignors to The Solvay Process Company, New York, N. Y. Removing greasy deposits from concrete, wood, and tile surfaces. 2,403,613; July 9.

Rice, Harlan M.: *See*—
Reynolds, Robert L., and Rice.

Rich, Everett W., San Diego, Calif. Rotary combustion engine. 2,403,684; July 9.

Ritter Company, Inc., assignee: *See*—
Maxson, Clarence G.

Rollinson, Carl L., Dayton, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,403,459; July 9.

Rosinski, Robert J., New York, Mills, N. Y. Clothesline tightener. 2,403,553; July 9.

Ross, Boris J., New York, N. Y. Calculating instrument. 2,403,614; July 9.

Rozner, Joseph J., assignor to Aetna Ball Bearing Manufacturing Company, Chicago, Ill. Ball bearing. 2,403,460; July 9.

Ruda, Gustaf W., assignor to Aktiebolaget Separator, Stockholm, Sweden. Method and device for determining the deflection of rotating bodies. 2,403,554; July 9.

Rust, Frederick F.: *See*—
Vaughan, William E., and Rust.

Rust, Frederick F., Berkeley, F. H. Dickey, Oakland, and E. R. Bell, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Asymmetrical ditertiary peroxides. 2,403,758; July 9.

Ruth, Arthur P., Houston, Tex. Combination pressure tank and pump. 2,043,555; July 9.

Ruth, Arthur P., Houston, Tex. Centrifugal pump. 2,403,556; July 9.

Sabe, Andrew, Tunbridge, N. Dak. Fish lure. 2,403,759; July 9.

Sachtleben, Lawrence T., Indianapolis, Ind., and W. L. Douden, Philadelphia, Pa., assignors to Radio Corporation of America. Light filter. 2,403,685; July 9.

Samson, Edward W., assignor to Hammermill Paper Company, Erie, Pa. Method and apparatus for producing designed papers. 2,403,461; July 9.

Sanders, Royden C., Jr., Audubon, N. J., assignor to Radio Corporation of America. Frequency determining device. 2,403,557; July 9.

Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency responsive circuit. 2,403,615; July 9.

Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Wave shaping circuit. 2,403,616; July 9.

Sanford, Hugh W., and W. P. Biddle, Jr., Knoxville, Tenn., said Biddle assignor to said Sanford. Magazine feed stove. 2,403,829; July 9.

Sayward, John M.: *See*—
Dixon, James K., and Sayward.

Schmidt, Henry F., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Blower apparatus. 2,403,878; July 9.

Schneible, Claude B., Detroit, Mich. Entrainment separator. 2,403,830; July 9.

Schoof, Ralph T., Dodge City, Kans. Folding chair. 2,403,558; July 9.

Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Chain hoist. 2,403,462; July 9.

Schulze, Walter A., and C. J. Helmers, Bartlesville, Okla., assignors to Phillips Petroleum Company. Manufacture of aviation gasoline blending stocks. 2,403,879; July 9.

Schwoegler, Edward J., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Reaction product of unsaturated monoglycol ethers and unsaturated nitriles. 2,403,686; July 9.

Searle, G. D. & Co., assignee: *See*—
Cusic, John W.

Seeley, Stuart W., Roslyn, N. Y., assignor to Radio Corporation of America. Sub-synchronous rectifier for frequency division. 2,403,559; July 9.

Seliger, Cornelia R., assignor to Henry Blech, Chicago, Ill. Reducing metals. 2,403,463; July 9.

Selwyn, Edward W. H.: *See*—
Davey, Edward P., and Selwyn.

Seybold, Frederick W., Westfield, assignor to American Type Founders, Inc., Elizabeth, N. J. Twin crank bed motion. 2,403,760; July 9.

Shafer, Julius E., Chicago, Ill. Seal for bearings. 2,403,687; July 9.

Sharples Chemicals, Inc., assignee: *See*—
Morton, Paul D., and Olin.
Olin, John F.

Sharples Corporation, The, assignee: *See*—
Sharples, Laurence P.

Sharples, Laurence P., Ardmore, assignor to The Sharples Corporation, Philadelphia, Pa. Fuel feeding and cooling system. 2,403,831; July 9.

Shell Development Company, assignee: *See*—
Dickey, Frank H., and Bell.
Rust, Frederick F., Dickey, and Bell.
Sprinkle, Marshall R., and MacDuff.
Vaughan, William E., and Rust.

Shooman, Lou: *See*—
Goldstein, William V., and Shooman.

Shorter, Albert E., Sheffield, England, assignor to The Linde Air Products Company, New York, N. Y. Apparatus for heat treating internal surfaces of metal articles. 2,403,761; July 9.

Simons, August E., Detroit, Mich. Water scooter. 2,403,560; July 9.

Skeyhan, Fred G., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Belt. 2,403,617; July 9.

Skinner, George M., Kenmore, N. Y., assignor to National Carbon Company, Inc. Liquid cleaning compositions. 2,403,618; July 9.

Skinner, George M., Kenmore, N. Y., assignor to National Carbon Company, Inc. Liquid cleaning composition. 2,403,619; July 9.

Smith, Albert F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrolyzed vinyl ester interpolymer fibers. 2,403,464; July 9.

Smith, Elizabeth E.: *See*—
Smith, Herbert N. and E. E.

Smith, Floyd, assignor to Pioneer Parachute Company, Inc., Manchester, Conn. Quick opening parachute. 2,403,832; July 9.

Smith, Herbert N. and E. E., Daventry, England. Production of knitting. 2,403,766; July 9.

Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Fatty amine salts of acid phosphate diesters. 2,403,762; July 9.

Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Di-cyclohexyl amine salt of acid phosphate di-esters. 2,403,763; July 9.

Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Mineral oil composition. 2,403,764; July 9.

Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Mineral oil composition. 2,403,765; July 9.

Smith, John P.: *See*—
Holmes, Ralph S., and Smith.

Smith, John P., Cranbury, N. J., assignor to Radio Corporation of America. Multiplex control system. 2,403,561; July 9.

Smith, John P., Cranbury, N. J., assignor to Radio Corporation of America. Recorder for radar systems. 2,403,562; July 9.

Smith, Joseph B., Elida, assignor to The Standard Oil Company, Cleveland, Ohio. Pump control. 2,403,688; July 9.

Smith, Silas P., Jr.: *See*—
Murray, Irvin L., Marsh, and Smith.

Snyder, Jacob R., Cleveland, and J. F. Norton, Cleveland Heights, assignors to Thompson Products, Inc., Cleveland, Ohio. Aligning and detent means for quick disconnect couplings. 2,403,620; July 9.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Otto, Ferdinand P.
Payne, John W., Noll, and Kalichevsky.

Solvay Process Company, The, assignee: *See*—
Reynolds, Robert L., and Rice.

Southern Acid and Sulphur Co., Inc., assignee: *See*—
Nevins, Samuel L., Albertson, and Gilliam.

Spangler, Daniel H., Hamburg, Pa. Suspension and load equalizing system for vehicles. 2,403,833; July 9.

Speakman, John B.: *See*—
Cunningham, George E., Chamberlain, and Speakman.

Specialties Development Corporation, assignee: *See*—
Heigis, Henry E.

Spicer, William E.: *See*—
Pierce, Jerry A., and Spicer.

Sprague, Robert B., Long Beach, Calif., assignor to Hoof Products Company, Chicago, Ill. Fluid lockout device. 2,403,689; July 9.

Sprinkle, Marshall R., Edwardsville, and R. S. MacDuff, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Surge tank system. 2,403,563; July 9.

Spurlin, Harold M., Marshallton, assignor to Hercules Powder Company, Wilmington, Del. Resinate. 2,403,767; July 9.

Square D Company, assignee: *See*—
Korn, Arthur.

Staley, A. E., Manufacturing Co., assignee: *See*—
Fuller, Allen R.

Standard Oil Company, assignee: *See*—
Marschner, Robert F.

Standard Oil Company, The, assignee: *See*—
Bartleson, John D.
Bartleson, John D., and Veatch.
Smith, Joseph B.

Standard Oil Development Company, assignee: *See*—
Blau, Ludwig W.
Hocott, Claude R.
Mason, Ralph B., and Pierce.
Palmer, Jewell S.
Pierce, Jerry A., and Spicer.
Reeves, Edward D.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Swann, James S.

Standard Stoker Company, Incorporated, The, assignee: *See*—
Graves, John R.

Stanley, Arthur M., Lynn, assignor to Stanley Engineering, Inc., Boston, Mass. Vehicle wheel. 2,403,690; July 9.

Stanley Engineering, Inc., assignee: *See*—
Stanley, Arthur M.

States, Marshall N., Evanston, assignor to R. C. Brown, Jr., Highland Park, Ill., trustee. Apparatus for making coffee. 2,403,691; July 9.

Steans, Lionel H.: *See*—
Andrews, Earle R.

Steel Heddle Manufacturing Company, assignee: *See*—
Kaufmann, John J., Jr.

Steimen, Lawrence E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening pulling machine. 2,403,621; July 9.

Stein, Samuel P., Ocean Grove, N. J. Wind-operated device for generating electricity. 2,403,564; July 9.

Stern, Raphael L.: *See*—
Bouchard, Frederick J., Gunness, and Stern.

Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Double acting collet chuck. 2,403,768; July 9.

Strand, Steen: *See*—
Thorp, Joel R., and Strand.

Streit, Fred H., Chicago, Ill. Necktie suspension unit. 2,403,834; July 9.

Stromberg-Carlson Company, assignee: *See*—
Goldberg, Harold, and Thompson.
Powell, Winfred T.

Stutz, Robert C., Buffalo, assignor to Niagara Blower Company, New York, N. Y. Apparatus for assembling fins and the like. 2,403,466; July 9.

Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car wall. 2,403,467; July 9.

Swart, Leland K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protection of communication circuit elements. 2,403,468; July 9.

Taft, Thomas K., Cornwall, N. Y. Dehumidifying apparatus. 2,403,880; July 9.

Tarbox, John P., Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company. Metallic structure. 2,403,881; July 9.

Teletype Corporation, assignee: *See*—
Potts, Louis M.

Texas Company, The, assignee: *See*—
Atwell, Harold V., and Eastman.
Barron, Joseph M.
Clarke, Louis A.
Kremer, John T.

Thomas, William, assignor to The Waterbury Tool Company, Waterbury, Conn. Ammunition conveyer. 2,403,882; July 9.

Thomas, William, assignor to The Waterbury Tool Company, Waterbury, Conn. Ammunition conveyer. 2,403,883; July 9.

Thomas, William, and R. L. Tweedale, assignors to The Waterbury Tool Company, Waterbury, Conn. Ammunition conveyer. 2,403,884; July 9.

Thompson Products, Inc., assignee: *See*—
Snyder, Jacob R., and Norton.

Thompson, Thomas, Bothell, Washington. Recreational roller toy. 2,403,885; July 9.

Thompson, Walter C.: *See*—
Goldberg, Harold, and Thompson.

Thorp, Joel R., and S. Strand, assignors to The Fulton Company, West Allis, Wis. Lock nut. 2,403,566; July 9.

Tibbetts, George C., Camden, Maine. Piezoelectric device. 2,403,692; July 9.

Titelox Manufacturing Company, assignee: *See*—
Lord, Francis Le B.

Triller, Benjamin J., assignor to Farley & Loetscher Manufacturing Company, Dubuque, Iowa. Window construction. 2,403,565; July 9.

Triplett, Ray L., assignee: *See*—
Lingel, Frederick J.

Tucker, Thomas T., assignor to Belle Weather Incorporated, Atlanta, Ga. Booth. 2,403,469; July 9.

Tuerck, Karl H. W., Banstead, and E. H. Brittain, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of acetic anhydride. 2,403,769; July 9.

Tull, Robert H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dispensing apparatus. 2,403,470; July 9.

Tuska, Clarence D., Philadelphia, Pa., assignor to Radio Corporation of America. Obstacle detecting system. 2,403,622; July 9.

Tweedale, Ralph L.: *See*—
Thomas, William, and Tweedale.

Tweedale, Ralph L., assignor to The Waterbury Tool Company, Waterbury, Conn. Ammunition hoist. 2,403,886; July 9.

Tweedale, Ralph L., assignor to The Waterbury Tool Company, Waterbury, Conn. Ammunition hoist. 2,403,887; July 9.

Uncas Manufacturing Company, assignee: *See*—
Barbieri, Nicholas.

Underwood, James W.: *See*—
D'Alelio, Gaetano F., and Underwood.

Unger, Paul O.: *See*—
Dawson, George H., and Unger.

Union Bag & Paper Corporation, assignee: *See*—
Read, Robert E.

Union Switch & Signal Company, The, assignee: *See*—
Nicholson, Frank H.

United Aircraft Corporation, assignee: *See*—
Hersey, Donald S.
Katzberg, Eugene.
Zimmerman, Charles H.

United Shoe Machinery Corporation, assignee: *See*—
Ewart, John M.
Steimen, Lawrence E.

Universal Oil Products Company, assignee: *See*—
Ipatieff, Vladimir N., and Monroe.

Urmston, James, Montclair, N. J., assignor to Callender's Cable & Construction Co., Ltd., London, England. Electric cable. 2,403,693; July 9.

Van Brunt, Charles G., Schenectady, N. Y., assignor to General Electric Company. Electrical contact. 2,403,471; July 9.

Vander Weele, John C.: *See*—
Britton, Edgar C., and Vander Weele.

Van Zelm, Willem D., Ruxton, assignor to The Glenn L. Martin Company, Middle River, Md. Aileron. 2,403,770; July 9.

Vaughan, William E., and F. F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Organic peroxides. 2,403,771; July 9.

Vaughan, William E., and F. F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Production of organic hydroperoxides. 2,403,772; July 9.

Veatch, Franklin: *See*—
Bartleson, John D., and Veatch.

Vickers Incorporated, assignee: *See*—
Gardiner, Duncan B.

Villepigue, Julius G., assignor to North American Aviation, Inc., Inglewood, Calif. Retractable landing gear. 2,403,835; July 9.

Vittum, Paul W.: *See*—
Jelley, Edwin E., and Vittum.

Vizard, William C., assignor to Barbour Welting Company, Brocton, Mass. Laminated welting. 2,403,694; July 9.

Vizard, William C., assignor to Barbour Welting Company, Brockton, Mass. Preformed welting. 2,403,773; July 9.

Von Kohorn, Henry, judicial change of name: *See*—
Kornegg, Heinz-Horst E. Von K. Z.

Wagner, Hans P., Atlanta, Ga. Self-sealing gasoline tank. 2,403,836; July 9.

Wales, Nathaniel B., Jr., New York, N. Y. Electrically energized fuse. 2,403,567; July 9.

Walker, James D., assignor to The American Well Works, Aurora, Ill. Apparatus for treating sewage. 2,403,695; July 9.

Wallace, Frank C., North Hollywood, assignor to H. H. Helbush, Los Angeles, Calif. Clamp operating tool. 2,403,623; July 9.

War, United States of America, as represented by the Secretary of, assignee: *See*—
Bryant, Eugene E.
Geohegan, William A., and Phipps.

Warner, Harry C., San Francisco, Calif. Electrical sound reproducing apparatus. 2,403,696; July 9.

Waterbury Tool Company, The, assignee: *See*—
Thomas, William.
Thomas, William, and Tweedale.
Tweedale, Ralph L.

Watter, Michael, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Aircraft control surface structure and assembly of same. 2,403,568; July 9.

Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Fabricated metal structure. 2,403,569; July 9.

Wenberg, Herbert B., De Pere, Wis. Plasticizing of glassine papers. 2,403,697; July 9.

Western Electric Company, Incorporated, assignee: *See*—
Martin, Samuel M.

Western Foundation Company, assignee: *See*—
Caudill, Howard F.

Western Union Telegraph Company, The, assignee: *See*—
Anderson, James N.

Westinghouse Electric Corporation, assignee: *See*—
Berkey, William E., Hershey, and Lamphere.
Blunk, Gene D., and Edwards.
Schmidt, Henry F.
Tull, Robert H.

Weston Electrical Instrument Corporation, assignee: *See*—
Gilbert, Roswell W.
Lamb, Anthony H.

White, Reginald A.: *See*—
Doyle, Irving W., and White.

Whitty, Frank M.: *See*—
Whitty, Victor E. and F. M.

Whitty, Victor E., Oakland, and F. M. Whitty, Los Angeles, Calif. Control for internal-combustion engines. 2,403,774; July 9.

Wicaco Machine Corporation, assignee: *See*—
Laird, Joseph P.

Wiest, Georg, Ludwigshafen-on-the-Rhine, and H. Glaser, Bonn, Germany; vested in the Alien Property Custodian. Ketones substituted by modified propionic acid radicles and producing same. 2,403,570; July 9.

Wilder, Lot S.: *See*—
Jelley, Edwin E., and Wilder.

Wilke, Milton E., assignor to Burgess Battery Company, Freeport, Ill. Dry cell. 2,403,571; July 9.

Wm. Bros. Boiler & Manufacturing Co., assignee: *See*—
Carroll, Charles V.

Williamson, Marshall I., New Haven, and H. A. Carruth, Northford, assignors to National Folding Box Company, New Haven, Conn. Hinged cover container. 2,403,698; July 9.

Willman, Richard C.: *See*—
Morlock, William J., and Willman.

Willson, Charles T., Canaan, assignor to Local Industries, Incorporated, Lakeville, Conn. Cutting attachment for hoes. 2,403,893; July 9.

Wilson, Ernest E., near Milford, assignor to General Motors Corporation, Detroit, Mich. Resonator silencer. 2,403,699; July 9.
Wilson, John M.: *See*—
Beam, Vilynn O., Cyr, and Wilson.
Wilson-Jones Company assignee: *See*—
Dawson, George H., and Unger.
Wilson, Ronald M., Devon, assignor to William M. Wilson's Sons, Lansdale, Pa. Locked faucet. 2,403,837; July 9.
Wilson, Wilfrid G., Fort William, Ontario, Canada. Grinder. 2,403,775; July 9.
Wilson's, William M., Sons, assignee: *See*—
Wilson, Ronald M.
Winnek, Philip S., Indianapolis, Ind., assignor to American Cyanamid Company, New York, N. Y. Preparation of 2-(N⁴-acylsulfanilamido) pyrazine. 2,403,776; July 9.
Wittenberg, David, Romema, Jerusalem, Palestine. Rotary pump. 2,403,572; July 9.
Wittlinger, Leonard M., Flint, assignor to General Motors Corporation, Detroit, Mich. Mercury arc device. 2,403,700; July 9.
Wolff, Irving, Merchantville, N. J., assignor to Radio Corporation of America. Apparatus for and method of pulse keying. 2,403,624; July 9.
Wolff, Irving, Merchantville, N. J., assignor to Radio Corporation of America. Drift indicator. 2,403,625; July 9.
Wolff, Irving, and R. S. Holmes, Haddonfield, N. J., assignor to Radio Corporation of America. Radio pulse position indicating system. 2,403,626; July 9.
Woodmansee, Clay G.: *See*—
Meyer, Gerhard and Woodmansee.
Woodworth, N. A., Company, assignee: *See*—
Hohwart, George, E. F., and Buckley.
Wyandotte Chemical Corporation, assignee: *See*—
Schwoegler, Edward J.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Schroeder, Charles S.
Yanka, Adolph J., University Park, Md. Valve for controlling distribution of fluids. 2,403,777; July 9.
Zdanaitis, Vit, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Cover sealing pressure cookers. 2,403,778; July 9.
Zimmerman, Charles H., Nichols, assignor to United Aircraft Corporation, East Hartford, Conn. Pilot compartment. 2,403,838; July 9.
Zuber, Clarence F., assignor to Acme Visible Records, Inc., Chicago, Ill. Holder for cards and photographs. 2,403,701; July 9.
Zucker, Milton: *See*—
Ransom, Olive S., and Zucker.

LIST OF PLANT INVENTIONS

Rose plant. J. H. and A. Kluis. 707; July 9.

LIST OF DESIGN INVENTIONS

Brooch or similar article. A. Verrecchia. 145,189; July 9.
Button or similar article. D. Kasen. 145,173; July 9.
Button or similar article. M. N. Lidz. 145,176; July 9.
Cap, Container. P. A. Derham. 145,158; July 9.
Case, Combination cigarette and vanity. E. L. Warner. 145,191; July 9.
Clip. M. Boucher. 145,151–2; July 9.
Clip for fountain pen or similar article. W. Green and P. Schladermundt. 145,171; July 9.
Compact, match holder, and lipstick holder, Combined. E. P. Consiglio. 145,156; July 9.
Dress. Z. Golden. 145,160–70; July 9.
Dress. J. Walker. 145,190; July 9.
Feeder for grain or the like, Box. W. E. Foster. 145,159; July 9.
Frame, Lapel watch. D. Taylor. 145,185–7; July 9.
Handle or similar article, Drawer. C. E. Lindberg. 145,177; July 9.
Holder, Knife. J. L. Hvale. 145,172; July 9.
Knob for stoves and the like, Gas control. D. E. Stewart. 145,188; July 9.
Lighter, Cigar. P. Meshberg. 145,183; July 9.
Pencil ferrule. E. S. Mallard. 145,182; July 9.
Plate, Desk name. A. L. MacRae. 145,178; July 9.
Shoe. E. Ziniti. 145,193; July 9.
Bottle or the like, Perfume. A. Levy. 145,175; July 9.
Sole, Shoe. N. E. Bovay. 145,153; July 9.
Spoon or other article of flatware. E. J. Conroy. 145,157; July 9.
Spoon or other article of flatware. H. A. Melinowski. 145,179–81; July 9.
Spoon or similar article. G. N. Allen and M. P. Fleming. 145,150; July 9.
Statuette or similar article. E. Burtis. 145,154; July 9.
Stopper and extractor, Combination bottle. J. C. Simpson. 145,184; July 9.
Suit or the like, Swimming. M. F. Laszlo. 145,174; July 9.
Tire. J. A. Christie. 145,155; July 9.
Tray, Cooking utensil supporting. M. J. Zimmer. 145,192; July 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory to turnbuckle wrench. T. F. Hauck. 2,403,718; July 9.
Acetamides, Recovering substituted. C. W. Bradley. 2,403,576; July 9.
Acetic anhydride, Manufacture of. K. H. W. Tuerck and E. H. Brittain. 2,403,769; July 9.
Additive for lubricants. J. D. Bartleson and F. Veatch. 2,403,474; July 9.
Additives for lubricants. J. D. Bartleson. 2,403,894; July 9.
Adjuster, Slack. N. Flesch. 2,403,512; July 9.
Aileron. W. D. van Zelm. 2,403,770; July 9.
Aircraft. H. K. Growald. 2,403,595; July 9.
Aircraft breathing regulator. G. M. Deming. 2,403,508; July 9.
Aircraft control surface structure and assembly of same. M. Watter. 2,403,568; July 9.
Airplane construction, Cross wing. W. F. Carlson. 2,403,499; July 9.
Album picture holder. A. Holtzman. 2,403,530; July 9.
Alginic acid compounds, Production of. G. E. Cunningham, N. H. Chamberlain, and J. B. Speakman. 2,403,707; July 9.
Aligning and detent means for quick disconnect couplings. J. R. Snyder and J. F. Norton. 2,403,620; July 9.
Alkali solution, Purifying caustic. C. A. Cummins. 2,403,789; July 9.
Alkylation method. E. C. Britton and J. C. Vander Weele. 2,403,785; July 9.
Alkylation process and products produced thereby. L. A. Clarke. 2,403,501; July 9.
Alternate current motor. R. Lee. 2,403,447; July 9.
Amusement device. R. B. W. Franklin. 2,403,593; July 9.
Anchor for gratings. W. A. Bates. 2,403,842; July 9.
Anchoring device. J. H. Molat. 2,403,541; July 9.
Antenna mounting. H. A. Bryers. 2,403,479; July 9.
Antiskid tread. C. R. MacCallum. 2,403,812; July 9.
Apparatus for assembling fins and the like. R. C. Stutz. 2,403,466; July 9.
Apparatus for cutting metal along curved lines. J. F. Franzen. 2,403,514; July 9.
Apparatus for drying fabrics. G. D. Blunk and H. E. Edwards. 2,403,630; July 9.
Apparatus for forming surfaces of revolution. C. B. Maddock 2,403,668; July 9.
Apparatus for heat treating internal surfaces of metal articles. A. E. Shorter. 2,403,761; July 9.
Apparatus for making coffee. M. N. States. 2,403,691; July 9.
Apparatus for recording electrical signals. J. N. Anderson. 2,403,472; July 9.
Apparatus for separating shot particles from mineral wool. C. G. Muench. 2,403,740; July 9.
Apparatus for smoothing and drying garments. H. C. Grimes. 2,403,655; July 9.
Apparatus for surface generation. R. Hayward. 2,403,659; July 9.
Apparatus for treating sewage. J. D. Walker. 2,403,695; July 9.
Apparatus for treating thread and the like. K. M. McLellan. 2,403,819; July 9.
Applicator, Heat and cold. M. Modlinski. 2,403,676; July 9.
Armrest, Welder's. A. F. Gerdes. 2,403,654; July 9.
Artificial wool imitation filaments and artificial wool filaments, Making. H-H. E. Von K. Z. Kornegg. 2,403,437; July 9.
Asymmetrical ditertiary peroxides. F. F. Rust, F. H. Dickey, and E. R. Bell. 2,403,758; July 9.
Attachments for hoes, Cutting. C. T. Willson. 2,403,893; July 9.
Balloon valve. L. W. Isom and E. E. Habib. 2,403,801; July 9.
Bands, Making composite. N. M. Campbell. 2,403,786; July 9.
Bar: *See*—
Grate bearer bar.
Beam splitters. S. M. MacNeille. 2,403,731; July 9.
Bearer or support for temporary or permanent use in building construction, Extendible. B. W. Fromson. 2,403,853; July 9.
Bearing, Ball. J. J. Rozner. 2,403,460; July 9.
Bearings, Making. E. B. Etchells. 2,403,645; July 9.
Belt. F. G. Skeyhan. 2,403,617; July 9.
Billfold. J. C. Davio. 2,403,507; July 9.
Binder, Loose-leaf. G. H. Dawson and P. O. Unger. 2,403,851; July 9.
Bits, Method and apparatus for making. F. L. Fulke. 2,403,651; July 9.

Blanket, Electric. W. K. Kearsley. 2,403,803; July 9.
Block for motors and the like, Terminal. J. A. Draxler. 2,403,642; July 9.
Blower apparatus. H. F. Schmidt. 2,403,878; July 9.
Booths. T. T. Tucker. 2,403,469; July 9.
Box: *See*—
Spreader box. Stuffing box.
Brake control for motor vehicles. T. A. Martin. 2,403,870; July 9.
Brush, Electrical contact. C. G. Van Brunt. 2,403,471; July 9.
Buoy. S. Mehl, Jr. 2,403,539; July 9.
Burner: *See*—
Gas burner.
Bushing assembly, Drive shaft. T. C. Gerner. 2,403,520; July 9.
Butadiene, Making. I. L. Murray, J. L. Marsh, and S. P. Smith, Jr. 2,403,741–2; July 9.
Butadiene process, Cyclic. M. E. Hitchcock and J. A. Field. 2,403,743; July 9.
Cabinet: *See*—
Refrigerator cabinet.
Cable: *See*—
Electric cable.
Cage, Queen bee shipping and introducing. J. Ashurst. 2,403,840; July 9.
Camouflage detection. E. E. Jelley and L. S. Wilder. 2,403,722; July 9.
Camshaft assembly. N. P. Lloyd. 2,403,868; July 9.
Caps, Bottle. C. J. Malm and G. J. Clarke. 2,403,734; July 9.
Carburetor. S. F. Hunt. 2,403,720; July 9.
Cards, Mounting and display. A. R. Nutt. 2,403,746; July 9.
Cartridge assembly, Explosive. T. F. Bennett. 2,403,488; July 9.
Case: *See*—
Drill case.
Catalysts. J. A. Pierce and W. E. Spicer. 2,403,753; July 9.
Catalytic and thermal conversions, Combination. J. M. Barron. 2,403,486; July 9.
Cathode ray deflection circuit A. V. Bedford. 2,403,487; July 9.
Center drill. W. F. Klemm. 2,403,861; July 9.
Centrifugal pump. A. P. Ruth. 2,403,556; July 9.
Chain. B. S. Carr and A. L. Blakemore. 2,403,635; July 9.
Chair: *See*—
Folding chair.
Chairs, Head rest for. C. G. Maxson. 2,403,537; July 9.
Charge forming device. D. E. Lipfert. 2,403,866; July 9.
Chemical process. C. L. Rollinson. 2,403,459; July 9.
Cherries, soft sheets, and the like, Manufacture of artificial edible. W. J. S. Peschardt. 2,403,547; July 9.
Chuck, Diaphragm. G. and E. F. Hohwart, and J. B. Buckley. 2,403,599; July 9.
Chuck, Double acting collet. A. M. Stoner. 2,403,768; July 9.
Cipher device, Strip. J. W. McClaran. 2,403,736; July 9.
Ciphering system. L. M. Potts. 2,403,680–1; July 9.
Ciphering system, Mechanical. L. M. Potts. 2,403,679; July 9.
Ciphering system, Mechanical. L. M. Potts. 2,403,682; July 9.
Circuit: *See*—
Cathode ray deflection circuit. Low frequency deflecting circuit.
Combined amplifier and power supply circuit. Reciprocal circuit.
Frequency responsive circuit. Telephone line circuit.
High-frequency vacuum tube circuit. Wave shaping circuit.
Circuit elements, Protection of communication. L. K. Swart. 2,403,468; July 9.
Clamp: *See*—
Hose clamp.
Clamp operating tool. F. C. Wallace. 2,403,623; July 9.
Cleaner: *See*—
Suction cleaner.
Cleaning compositions, Liquid. G. M. Skinner. 2,403,618–9; July 9.
Clock. F. Q. Rast. 2,403,552; July 9.
Closure and closing containers, Container. F. Gilbert, Jr. 2,403,855; July 9.
Closure, Container. E. M. Enkur. 2,403,511; July 9.
Closure, Sewed bag. R. E. Read. 2,403,756; July 9.

Cloth, Polishing. J. D. Morgan and R. E. Lowe. 2,403,821; July 9.
Clothesline tightener. R. J. Rosinski. 2,403,553; July 9.
Clutch mechanism for variable-speed gearing. E. T. Gilliard. 2,403,594; July 9.
Coating, Metallic. E. E. Bryant. 2,403,706; July 9.
Cobaltite, Separation of. J. R. Cunningham. 2,403,640; July 9.
Code detecting means. F. H. Nicholson. 2,403,744; July 9.
Collar can collar mounting. J. Coyle and W. F. Punte. 2,403,788; July 9.
Comb. E. P. Randall. 2,403,551; July 9.
Combined amplifier and power supply circuit. H. Goldberg and W. C. Thompson. 2,403,716; July 9.
Combustion unit. C. F. Heath. 2,403,860; July 9.
Communication, Wireless. A. Korn. 2,403,603; July 9.
Compass, Inductor. E. J. Martin and C. E. Grinstead. 2,403,669; July 9.
Compounds of the cyclopentanopolyhydrophenanthrene series and making same. T. Reichstein. 2,403,683; July 9.
Compressor. P. Maniscalco. 2,403,814; July 9.
Computer, Gunfire control. R. E. Crooke. 2,403,504; July 9.
Computer, Gunfire control. G. A. Crowther. 2,403,506; July 9.
Computer, Gunfire control. W. H. Newell. 2,403,543–4; July 9.
Computer, Torpedo data. W. H. Newell. 2,403,542; July 9.
Connector: *See*—
Quick-detachable audio frequency connector.
Construction for turbines or the like, Bearing. R. Birmann. 2,403,489; July 9.
Container: *See*—
Hinged cover container.
Control device. H. L. Newell. 2,403,824; July 9.
Control, Dust arrester liquid level. A. Nutting. 2,403,545; July 9.
Control for internal-combustion engines, Supercharging. P. Lebet. 2,403,865; July 9.
Control instrument, Summer-winter. G. I. Holmes. 2,403,798; July 9.
Control mechanism, Remote. W. A. Black. 2,403,490; July 9.
Control system, Multiplex. J. P. Smith. 2,403,561; July 9.
Control system, Television pickup. G. L. Beers. 2,403,628; July 9.
Conveyer, Ammunition. W. Thomas. 2,403,882–3; July 9.
Conveyer, Ammunition. W. Thomas and R. L. Tweedale. 2,403,884; July 9.
Conveyer for saw trimmers, Lumber feeding. E. C. Mead. 2,403,673; July 9.
Coordinate determining system. A. V. Loughren. 2,403,729; July 9.
Cordlike product. G. H. Fullerton and T. V. Moss. 2,403,652; July 9.
Cords and making cord. S. M. Martin. 2,403,816; July 9.
Cords, Making. S. M. Martin. 2,403,815; July 9.
Coupling. N. W. Adolph. 2,403,839; July 9.
Cowling, Engine. D. S. Hersey. 2,403,797; July 9.
Crank bed motion, Twin. F. W. Seybold. 2,403,760; July 9.
Current control, Load. U. Lamm. 2,403,891; July 9.
Dehumidifying apparatus. T. K. Taft. 2,403,880; July 9.
Delivering apparatus, Article. E. E. Lakso. 2,403,862; July 9.
Deposits from concrete, wood, and tile surfaces, Removing greasy. R. L. Reynolds and H. M. Rice. 2,403,612–13; July 9.
Destroyer, Grass and weed. D. A. Caylor. 2,403,847; July 9.
Detecting system and apparatus. K. L. Coulter. 2,403,503; July 9.
Detecting system, Obstacle. C. D. Tuska. 2,403,622; July 9.
Device for determining the deflection of rotating bodies. E. A. Forsberg. 2,403,513; July 9.
Device for determining the deflection of rotating bodies. G. W. Ruda. 2,403,554; July 9.
Device for generating electricity, Wind-operated. S. P. Stein. 2,403,564; July 9.
Device for prevention of vapor lock in gasoline lines and the like. A. F. Carpenter. 2,403,578; July 9.
Dialkyl benzenes, Isomerizing. E. D. Reeves. 2,403,757; July 9.
Diazine derivative, Preparing a. G. F. D'Alelio and J. W. Underwood. 2,403,790; July 9.
Di-cyclohexyl amine salt of acid phosphate di-esters. H. G. Smith and T. L. Cantrell. 2,403,763; July 9.
Di-P-isobutyl sebacate. G. Kesslin and L. Nicholl. 2,403,804; July 9.
Direction-finding system. A. V. Loughren. 2,403,727; July 9.
Director, Torpedo. R. E. Crooke. 2,403,505; July 9.
Dishwashing machine. W. N. Harris. 2,403,526; July 9.
Dispensing apparatus. R. H. Tull. 2,403,470; July 9.
Door lock. C. A. Hillgren. 2,403,597; July 9.
Draft gear. G. E. Dath and R. J. Olander. 2,403,585; July 9.
Drift indicator. I. Wolff. 2,403,625; July 9.
Drill: *See*—
Center drill.
Drill case. M. D. Nissenbaum. 2,403,825; July 9.
Drive and control system, Ship. C. H. Fike and H. R. Heinzen. 2,403,647; July 9.
Dry cell. M. E. Wilke. 2,403,571; July 9.
Egg candling apparatus. E. Bramson. 2,403,705; July 9.
Electric cable. J. Urmston. 2,403,693; July 9.
Electric motor. J. D. Lewis. 2,403,665; July 9.
Electron discharge device. P. L. Hartman. 2,403,444; July 9.
Electron discharge device. J. P. Laico. 2,403,445; July 9.
Electronic device and control means therefor. J. R. Desch. 2,403,852; July 9.
Elevator. A. Chantland. 2,403,636; July 9.
Enciphering and deciphering system. C. I. Cronburg. 2,403,888; July 9.
Engine: *See*—
Internal-combustion engine. Rotary combustion engine.
Entrainment separator. C. B. Schneible. 2,403,830; July 9.
Equalizing system for vehicles, Suspension and load. D. H. Spangler. 2,403,833; July 9.
Equipment for tractors, Power-operated. J. F. Laughead. 2,403,808; July 9.
Ester interpolymer fibers, Hydrolyzed vinyl. A. F. Smith. 2,403,464; July 9.
Esters and manufacturing, Di-phosphorus. E. F. Engelke. 2,403,792; July 9.
Esters and producing same, Glycol. F. F. Nord. 2,403,876; July 9.
Evaporation tower for cooling suspensions. C. R. Hocott. 2,403,719; July 9.
Extraction of drying oils, Solvent. O. S. Ransom and M. Zucker. 2,403,458; July 9.
Extrusion apparatus. K. L. Berry and J. R. Downing. 2,403,476; July 9.
Fabric, Knitted. L. N. Feinstein. 2,403,793; July 9.
Fastening pulling machine. L. E. Steimen. 2,403,621; July 9.
Fatty amine salts of acid phosphate di-esters. H. G. Smith and T. L. Cantrell. 2,403,762; July 9.
Faucet, Locked. R. M. Wilson. 2,403,837; July 9.
Feed bar for pens, Hooded. R. Back. 2,403,703; July 9.
Feeding and cooling system, Fuel. L. P. Sharples. 2,403,831; July 9.
Film, Flexible reflex reflecting. M. H. Phillippi. 2,403,752; July 9.
Film, Nonstatic photographic. F. J. Kaszuba. 2,403,533; July 9.
Filter: *See*—
Light filter.
Fish lure. A. Sabe. 2,403,759; July 9.
Flashlamp, Mechanical. R. A. Adams. 2,403,702; July 9.
Flowmeter. D. E. Lipfert. 2,403,867; July 9.
Flywheel, Damping. H. L. Burnat. 2,403,478; July 9.
Fog in photographic material, Preventing color. E. E. Jelley and P. W. Vittum. 2,403,721; July 9.
Folding chair. R. T. Schoof. 2,403,558; July 9.
Follow-up device, Electrical. J. C. Needham. 2,403,874; July 9.
Food products, Blanching. D. M. McBean. 2,403,871; July 9.
4-basically substituted 2-sulphanilimidopyramidines, Preparation of. J. P. English. 2,403,713; July 9.
Frame: *See*—
Picture frame.
Frequency determining device. R. C. Sanders, Jr. 2,403,557; July 9.
Frequency responsive circuit. R. C. Sanders, Jr. 2,403,615; July 9.
Friction element, Molded. D. H. Miller, P. H. Knowles, and W. A. Hughes. 2,403,674; July 9.
Fruit holder. N. E. Gaddini. 2,403,517; July 9.
Fuels, Preparation of high grade antiknock motor. A. Hagemann. 2,403,524; July 9.
Fuse, Electrically energized. N. B. Wales, Jr. 2,403,567; July 9.
Garment construction. P. Hochfelder. 2,403,598; July 9.
Garment hanger. S. I. Cohen. 2,403,639; July 9.
Gas burner. H. Dobrin. 2,403,431; July 9.
Gasoline blending stocks, Manufacture of aviation. W. A. Schulze and C. J. Helmers. 2,403,879; July 9.
Gasoline production, Aviation. R. F. Marschner. 2,403,869; July 9.
Gear: *See*—
Draft gear. Retractable landing gear.
Gear. F. H. Boor. 2,403,492; July 9.
Gear pump. J. C. Hanna. 2,403,796; July 9.
Generating apparatus and process, Heat. E. J. Lamport. 2,403,446; July 9.
Glass fibers, Treatment of. K. J. Miller. 2,403,872; July 9.
Grate. C. V. Carroll. 2,403,787; July 9.
Grate bearer bar. J. R. Graves. 2,403,857; July 9.
Grinder. W. G. Wilson. 2,403,775; July 9.
Grout into subsoil, Method of and apparatus for. G. L. Dresser. 2,403,643; July 9.
Guard, Cattle gutter. A. Hardrath, Sr., and A. Hardrath, Jr. 2,403,525; July 9.

Guide for knitting machines, Sinker. W. Larkin. 2,403,864; July 9.
Hair-grip pin. J. Jackson. 2,403,501; July 9.
Halving and pitting machinery, Fruit. N. E. Gaddini. 2,403,516; July 9.
Hammer, Power. H. F. Caudill. 2,403,582; July 9.
Hanger: *See*—
Garment hanger.
Headlamp, Black-out. R. N. Falge, G. W. Onksen, Jr., and W. R. Goris. 2,403,646; July 9.
Heating tank, Corrosion-resistant fluid. W. H. Martin. 2,403,670; July 9.
Heel, Detachable. A. Fisk. 2,403,592; July 9.
High-frequency apparatus. W. C. Hahn. 2,403,795; July 9.
High-frequency vacuum tube circuit. H. C. Lawrence, Jr. 2,403,725; July 9.
Hinged cover container. M. I. Williamson and H. A. Carruth. 2,403,698; July 9.
Hoist, Ammunition. R. L. Tweedale. 2,403,886–7; July 9.
Hoist, Chain. C. S. Schroeder. 2,403,462; July 9.
Hold-down device, Aircraft. H. F. Pitcairn. 2,403,456; July 9.
Holder: *See*—
Album picture holder. Fruit holder.
Holder for cards and photographs. C. F. Zuber. 2,403,701; July 9.
Holding and ball release mechanism, Ball. I. Edelman. 2,403,590; July 9.
Honey press. R. D. Bradshaw. 2,403,784; July 9.
Honing, Method and apparatus for. J. O. Olsen. 2,403,546; July 9.
Hose clamp. G. Meyer. 2,403,606; July 9.
Hose clamp. G. Meyer and C. G. Woodmansee. 2,403,449; July 9.
Hub and axle assembly for floating axles, Rear. E. J. Bourgeois. 2,403,494; July 9.
Hydrocarbon reconstruction. F. E. Frey. 2,403,649; July 9.
Hydrocarbons from hydrocarbon mixtures, Separation of aromatic. H. V. Atwell and Du B. Eastman. 2,403,485; July 9.
Hydrocarbons, Isomerization of. J. W. Loy. 2,403,811; July 9.
Hydrocarbons, Treatment of. F. E. Frey. 2,403,714; July 9.
Hydrogen chloride manufacture. R. B. Mason and J. A. Pierce. 2,403,735; July 9.
Hydroperoxides, Production of organic. W. E. Vaughan and F. F. Rust. 2,403,772; July 9.
Impulse emitter. R. E. Mumma. 2,403,873; July 9.
Indicating system, Radio pulse position. I. Wolff and R. S. Holmes. 2,403,626; July 9.
Indicating system, Regenerative. J. A. Rankin. 2,403,755; July 9.
Indicating the position in space of an object, System for. A. V. Loughren. 2,403,728; July 9.
Indicator: *See*—
Drift indicator.
Pulse-echo distance indicator.
Ignition system. W. E. Berkey, A. E. Hershey, and R. Lamphere. 2,403,629; July 9.
Illuminating arrangement, Automobile. A. A. Gonzalez. 2,403,856; July 9.
Implement, Abrading and polishing. K. C. Guiden. 2,403,434; July 9.
Incendiary with high penetrating power. A. Grobstein. 2,403,656; July 9.
Inflation device. H. E. Heigis. 2,403,436; July 9.
Insecticide. C. V. Bowen. 2,403,495; July 9.
Insert. F. Le B. Lord. 2,403,810; July 9.
Instrument, Calculating. B. J. Ross. 2,403,614; July 9.
Instrument, Impaling. E. D. Knab. 2,403,443; July 9.
Instrument, Solo electrical musical. N. Langer. 2,403,664; July 9.
Insulating and dielectric materials. R. L. Harvey. 2,403,657; July 9.
Internal-combustion engine. A. Jansson. 2,403,440; July 9.
Internal-combustion engines, Control of. V. E. and F. M. Whitty. 2,403,774; July 9.
Interpolmers of a methylene malonic ester and an unsaturated alkyd resin. G. F. D'Alelio. 2,403,791; July 9.
Isomerization of olefinic hydrocarbons. M. P. Matuszak. 2,403,671; July 9.
Keeper unit, Latch-accommodating. W. J. Pinard. 2,403,826; July 9.
Ketones substituted by modified propionic acid radicles and producing same. G. Wiest and H. Glaser. 2,403,570; July 9.
Kit, Shoe. E. A. Brack. 2,403,575; July 9.
Knitting, Production of. H. N. and E. E. Smith. 2,403,766; July 9.
Landing-deck light. A. M. Pride. 2,403,610; July 9.
Lay-out machine. E. D. Browning. 2,403,633; July 9.
Light: *See*—
Landing-deck light.
Light filter. L. T. Sachtleben and W. L. Douden. 2,403,685; July 9.
Lighter, Pocket. L. L. Dritz. 2,403,589; July 9.
Loader apparatus, Scraper. T. F. McCarthy. 2,403,817; July 9.
Lock: *See*—
Door lock.
Shoulder harness take-up and inertia lock.
Lockout device, Fluid. R. B. Sprague. 2,403,689; July 9.
Looms, Automatic stopping of. R. E. Bridge. 2,403,497; July 9.
Low frequency deflecting circuit. T. T. Eaton. 2,403,510; July 9.
Lubricating system for two-speed transmissions. J. H. Carpenter. 2,403,579; July 9.
Machine for forming plastic binders. C. E. Emmer. 2,403,644; July 9.
Machine for manufacturing spiral vanes. A. E. Biermann. 2,403,573; July 9
Magazine, Camera. I. W. Doyle and R. A. White. 2,403,587; July 9.
Manifold support. A. Nelson and H. H. Niemann. 2,403,823; July 9.
Material, Sizing. A. R. Fuller. 2,403,515; July 9.
Mercury arc device. L. M. Wittlinger. 2,403,700; July 9.
Metal structure, Fabricated. M. Watter. 2,403,569; July 9.
Metalworking. M. J. Kulla. 2,403,805; July 9.
Metallic structure. J. P. Tarbox. 2,403,881; July 9.
Metals, Reducing. C. R. Seliger. 2,403,463; July 9.
Metals, Refining of nonferrous. L. S. Deitz, Jr. 2,403,586; July 9.
Meter, Frequency. F. J. Lingel. 2,403,809; July 9.
Metering head, Flow meter. C. E. Cox. 2,403,849; July 9.
Microammeter, Electronic. R. W. Gilbert. 2,403,521; July 9.
Microfilm reader. W. F. O'Gorman. 2,403,747; July 9.
Microphone, Well sounding. J. T. Kremer. 2,403,535; July 9.
Microscope, Electron. J. Hillier and R. F. Baker. 2,403,529; July 9.
Mine, Submarine. A. M. Brown. 2,403,845; July 9.
Mineral oil composition. F. P. Otto. 2,403,453; July 9.
Mineral oil composition. H. G. Smith and T. L. Cantrell. 2,403,764–5; July 9.
Mixer. W. H. Lewis. 2,403 536; July 9.
Moisture laden articles, Method of and apparatus for drying. C. N. Hoyler. 2,403,800; July 9.
Mold for molding an extensible article. N. Barbieri. 2,403,780; July 9.
Molten iron from iron ore, Electric furnace process for producing. H. Gallusser. 2,403,715; July 9.
Mono-olefins, Isomerizing. V. N. Ipatieff and G. S. Monroe. 2,403,439; July 9.
Motion-picture-screen assembly, Collapsible. A. B. Hurley. 2,403,661; July 9.
Motion, Stop. B. Plunkett. 2,403,548; July 9.
Motor: *See*—
Alternate current motor. Electric motor.
Mount for machine guns. J. M. Ewart. 2,403,591; July 9.
Mount for optical elements. J. Mihalyi. 2,403,737; July 9.
Mounting: *See*—
Antenna mounting. Collar and collar mounting.
Muffler. U. Sauer. 2,403,403; July 2.
Multiplying unit. H. L. Clary and W. H. Petit. 2,403,480; July 9.
Nail, Coated. W. E. Boak. 2,403,783; July 9.
Nitrocellulose, Manufacturing. F. J. Bouchard, R. C. Gunness, and R. L. Stern. 2,403,493; July 9.
Nozzle for air grease guns, Coupling. E. B. Norman. 2,403,678; July 9.
Nut, Combined threaded fastener and anchor. C. B. Breedlove. 2,403,496; July 9.
Nut, Lock. J. R. Thorp and S. Strand. 2,403,566; July 9.
Oils, Coking. J. W. Payne, H. D. Noll, and V. A. Kalichevsky. 2,403,608; July 9.
Olefin-containing mixtures, Treatment of. G. C. Bailey. 2,403,779; July 9.
Olefins, Separation of. M. P. Matuszak. 2,403,672; July 9.
1,2,4-oxadiazoles, Preparation of. D. W. Kaiser. 2,403,723; July 9.
Operating mechanism, Reversible. E. Katzberg. 2,403,802; July 9.
Optical system for cameras. R. Hayward. 2,403,660; July 9.
Optical system, Stereoscopic. P. and M. N. Mainardi. 2,403,733; July 9.
Ore, Concentrating iron. J. B. Clemmer and C. Rampacek. 2,403,481; July 9.
Paper making stock, Method of and apparatus for producing a head in response to the consistency of. E. Poirier. 2,403,827; July 9.
Papers, Method and apparatus for producing designed. E. W. Samson. 2,403,461; July 9.
Parachute, Quick opening. F. Smith. 2,403,832; July 9.
Paraffins, Reconstruction of. F. E. Frey. 2,403,650; July 9.

Parasiticide composition. O. H. Hammer. 2,403,435; July 9.
Peroxides, Organic. W. E. Vaughan and F. F. Rust. 2,403,771; July 9.
Peroxides, Production of organic. F. H. Dickey and E. R. Bell. 2,403,709; July 9.
Petroleum hydrocarbon content of earth samples, Determining the. C. B. Brown. 2,403,631; July 9.
Photoelectric cell. A. H. Lamb. 2,403,863; July 9.
Photoelectric system. T. B. Perkins. 2,403,609; July 9.
Photographic apparatus. D. C. Harvey. 2,403,717; July 9.
Photographic copying apparatus, Control for. J. F. Egan. 2,403,711; July 9.
Photographic materials, Sensitive. E. P. Davey and E. W. H. Selwyn. 2,403,708; July 9.
Photographing device. J. W. McFarlane and C. F. Andrews. 2,403,892; July 9.
Picture frame. F. D. Bogia. 2,403,491; July 9.
Piezoelectric device. G. C. Tibbetts. 2,403,692; July 9.
Pilot compartment. C. H. Zimmerman. 2,403,838; July 9.
Pin: *See*—
Hair-grip pin.
Piston. H. P. Phillips. 2,403,455; July 9.
Piston and piston ring improvement. T. A. Bowers. 2,403,574; July 9.
Plastic, Visible light transparent. R. M. Goldrick and B. M. Marks. 2,403,794; July 9.
Plasticizing of glassine papers. H. B. Wenberg. 2,403,697; July 9.
Plug: *See*—
Safety plug.
Power transmission. D. B. Gardiner. 2,403,519; July 9.
Preselecting and control apparatus, Program. F. H. Owens. 2,403,454; July 9.
Press: *See*—
Honey press.
Press structure, Cylindrical. J. A. Muller. 2,403,822; July 9.
Propeller, Hydraulic compensating. W. S. Hoover. 2,403,532; July 9.
Pulse-echo distance indicator. W. D. Hershberger. 2,403,527; July 9.
Pulse keying, Apparatus for and method of. I. Wolff. 2,403,624; July 9.
Pump: *See*—
Centrifugal pump. Rotary pump.
Gear pump.
Pump. H. M. Geyer and H. Carson. 2,403,854; July 9.
Pump control. J. B. Smith. 2,403,688; July 9.
Pumps and the like, Base for rayon. J. P. Laird. 2,403,663; July 9.
Quick-detachable audio frequency connector. W. J. Morlock and R. C. Willman. 2,403,677; July 9.
Radar systems, Recorder for. J. P. Smith. 2,403,562; July 9.
Radio beacon system. E. I. Anderson. 2,403,429; July 9.
Radio communication, System for and method of aircraft. W. L. Carlson. 2,403,500; July 9.
Rail and joint structure. H. L. Lansing. 2,403,807; July 9.
Range finder. S. M. MacNeille. 2,403,732; July 9.
Range finder construction. J. Mihalyi. 2,403,738; July 9.
Reaction product of unsaturated monoglycol ethers and unsaturated nitriles. E. J. Schwoegler. 2,403,686; July 9.
Receiver for pulse position indication systems. R. S. Holmes and J. P. Smith. 2,403,600; July 9.
Receptacle, Live minnow and small fish. R. L. Groom and R. E. Parrish, Sr. 2,403,858; July 9.
Reciprocal circuit. C. A. Meneley. 2,403,540; July 9.
Record compositions, Phonograph. J. S. Massarene. 2,403,448; July 9.
Rectifier for frequency division, Sub-synchronous. S. W. Seeley. 2,403,559; July 9.
Refrigerating apparatus. W. W. Higham. 2,403,528; July 9.
Refrigeration system. W. L. McGrath. 2,403,818; July 9.
Refrigerator cabinet. E. D. Drake. 2,403,588; July 9.
Regulating system, Rectifier. S. L. Christie. 2,403,637; July 9.
Regulation of the scavenging and charging of two-stroke fuel injection internal combustion engines. B. Bolli. 2,403,844; July 9.
Regulator: *See*—
Aircraft breathing regulator.
Regulator with pressure loaded carbon-pile column, Electric current. W. Kehse. 2,403,534; July 9.
Reproducing apparatus, Electrical sound. H. C. Warner. 2,403,696; July 9.
Resinate. H. M. Spurlin. 2,403,767; July 9.
Resins and manufacture thereof, Synthetic. P. D. Morton and J. F. Olin. 2,403,450; July 9.
Resonator for discharge tubes. A. D. Blumlein. 2,403,782; July 9.
Retractable landing gear. J. G. Villepigue. 2,403,835; July 9.
Rigging, Railway draft. G. E. Dath. 2,403,583; July 9.
Roly-poly device. F. M. and E. E. Hoover. 2,403,531; July 9.
Rotary combustion engine. E. W. Rich. 2,403,684; July 9.
Rotary pump. D. Wittenberg. 2,403,572; July 9.
Rotating apparatus, Article. S. C. Hurley, Jr. 2,403,662; July 9.
Safety plug. S. T. Novak. 2,403,452; July 9.
Scoops, Forming separable fastener. L. H. Morin. 2,403,739; July 9.
Scooter, Water. A. E. Simons. 2,403,560; July 9.
Seal for bearings. J. E. Shafer. 2,403,687; July 9.
Sealing means for pressure cookers, Cover. V. Zdanaitis. 2,403,778; July 9.
Self-sealing gasoline tank. H. P. Wagner. 2,403,836; July 9.
Separator: *See*—
Entrainment separator.
Shock absorber, Friction. G. E. Dath. 2,403,584; July 9.
Shock absorber, Hydraulic. N. S. Focht. 2,403,648; July 9.
Shoe for divers. J. Browne. 2,403,477; July 9.
Shoes. C. C. Klaus. 2,403,442; July 9.
Shoulder harness take-up and inertia lock. W. A. Geohegan and R. E. Phipps. 2,403,653; July 9.
Shower, Portable. E. R. Andrews and L. H. Steans. 2,403,430; July 9.
Shutter, Explosively actuated high-speed. S. M. MacNeille. 2,403,730; July 9.
Shuttle, Loom. J. J. Kaufmann, Jr. 2,403,724; July 9.
Silencer, Resonator. E. E. Wilson. 2,403,699; July 9.
Sintering apparatus. L. Gelbman. 2,403,433; July 9.
Slide, Cross. S. L. Casella. 2,403,581; July 9.
Slide loop. G. H. Elwell. 2,403,712; July 9.
Sorting machine. E. J. Rabenda and H. J. Kistner. 2,403,550; July 9.
Speed and acceleration responsive device. R. N. Lesnick. 2,403,605; July 9.
Sponson, Seaplane. J. D. Pierson. 2,403,754; July 9.
Spreader box. W. J. Miller. 2,403,820; July 9.
Steering mechanism, Gyroscopic. C. M. Hayman. 2,403,658; July 9.
Stop, Sea. J. D. Langdon. 2,403,806; July 9.
Stove, Magazine feed. H. W. Sanford and W. P. Biddle, Jr. 2,403,829; July 9.
Strip for inductive devices, Terminal. J. E. Ranges. 2,403,457; July 9.
Stuffing box. W. A. Neumann. 2,403,875; July 9.
Suction cleaner. W. H. Kitto. 2,406,602; July 9.
Sulphur from gases, Extraction of. S. L. Nevins, N. F. Albertson, and J. S. Gilliam. 2,403,451; July 9.
Support: *See*—
Manifold support.
Suspension unit, Necktie. F. H. Streit. 2,403,834; July 9.
Switch mechanism, Time controlled. R. W. Lovering. 2,403,667; July 9.
Synchronizing control, Gunfire. F. J. W. den Ouden. 2,403,641; July 9.
Synchronizing mechanism, Electromechanical. C. Breitwieser. 2,403,577; July 9.
Take-off structure, Power. K. W. Couse. 2,403,848; July 9.
Tank: *See*—
Self-sealing gasoline tank.
Tank. C. L. Cowdrey and J. A. Churchill. 2,403,850; July 9.
Tank and pump, Combination pressure. A. P. Ruth. 2,043,555; July 9.
Tank for oils and other liquids, Storage. W. G. Laird. 2,403,604; July 9.
Tank system, Surge. M. R. Sprinkle and R. S. Mac Duff. 2,403,563; July 9.
Tapping and threading machine. H. Ashworth. 2,403,484; July 9.
Telegraph system. F. S. Kinkead, by R. S. Kinkead. 2,403,441; July 9.
Telemetering system. M. J. Di Toro. 2,403,889; July 9.
Telemetering system. J. K. Johnson. 2,403,890; July 9.
Telephone line circuit. W. T. Powell. 2,403,877; July 9.
Telephone system. H. M. Bascom and F. A. Hubbard. 2,403,475; July 9.
Television, Modulation system for. W. J. Poch. 2,403,549; July 9.
Tensiometer. G. E. Holton, C. E. Heglund, and J. V. Manson. 2,403,799; July 9.
Tertiary amino derivatives of dihydro-anthracene. J. W. Cusic. 2,403,483; July 9.
Testing device. A. W. Hatfield. 2,403,859; July 9.
Therapeutic compositions. S. Ansbacher. 2,403,473; July 9.
Thermal prospecting. L. W. Blau. 2,403,704; July 9.
Thermostat, Resistance bulb. V. O. Beam, B. Cyr, and J. M. Wilson. 2,403,843; July 9.
Thrashing machine. A. D. Clark. 2,403,638; July 9.
Throttling valve. J. S. Palmer. 2,403,751; July 9.
Tip, Crutch. L. L. Brown. 2,403,632; July 9.
Tool: *See*—
Clamp operating tool.
Tool. D. Lubetsky. 2,403,666; July 9.
Tool for installing tubular rivets. W. G. Mitchell. 2,403,675; July 9.
Tower, Forced draft cooling. J. B. Baird. 2,403,841; July 9.
Toy, Acrobatic. F. C. Dise. 2,403,509; July 9.

Toy, Recreational roller. T. Thompson. 2,403,885; July 9.
Toy, Striker. W. V. Goldstein and L. Shooman. 2,403,522; July 9.
Transmission, Overdrive. W. B. Barnes. 2,403,781; July 9.
Transmission system, Pulse. N. E. Lindenblad. 2,403,726; July 9.
Transmission, Variable speed. A. G. Bade. 2,403,627; July 9.
Transmitters, Cut-out device for telephone. G. E. Brittingham. 2,403,498; July 9.
Tray, Ice. C. R. Carney. 2,403,846; July 9.
Treatment of hydroxyl-containing interpolymers of ethylene. D. C. Pease. 2,403,465; July 9.
Tubes, Apparatus and method for making. R. L. Norton. 2,403,745; July 9.
Turnbuckle. A. W. Rawlins and W. J. Kupec. 2,403,828; July 9.
2-Brompyrazine and preparing same. J. K. Dixon and J. M. Sayward. 2,403,710; July 9.
2-(N⁴-acylsulfanilamido) pyrazine, Preparation of. P. S. Winnek. 2,403,776; July 9.
2, 6, di-halo phenols, Manufacture of. J. F. Olin. 2,403,748; July 9.
Undercarriage, Aircraft. J. M. Gwinn, Jr. 2,403,523; July 9.
Unit for fruit, Holding. N. E. Gaddini. 2,403,518; July 9.
V-belt construction. H. Ogard. 2,403,607; July 9.
Valve: *See*—
  Balloon valve.
Valve and control therefor, Reset. W. A. Ray. 2,403,611; July 9.
Valve for controlling distribution of fluids. A. J. Yanka. 2,403,777; July 9.
Vapor generating apparatus. P. W. Foster, Jr. 2,403,432; July 9.
Vehicle wheel. A. M. Stanley. 2,403,690; July 9.
Vent, Fuel tank. W. B. O'Neal. 2,403,749; July 9.
Ventilator. W. W. Hargrett. 2,403,596; July 9.
Vibrating mechanism, Screen. E. B. Cook. 2,403,502; July 9.
Wall, Railway car. J. S. Swann. 2,403,467; July 9.
Walls and ceilings of buildings. H. N. Cartwright, J. G. Davies, and R. H. Patterson. 2,403,580; July 9.
Wave shaping circuit. R. C. Sanders, Jr. 2,403,616; July 9.
Welding method. G. A. Hughes. 2,403,438; July 9.
Welt and making the same. E. R. Ouimet. 2,403,750; July 9.
Welting, Laminated. W. C. Vizard. 2,403,694; July 9.
Welting, Preformed. W. C. Vizard. 2,403,773; July 9.
Wheel: *See*—
  Vehicle wheel.
Wheel. F. W. Burger. 2,403,634; July 9.
Wheels, Bushings for polishing. J. J. Manderscheid. 2,403,813; July 9.
Winding mechanism. R. T. McCarthy. 2,403,538; July 9.
Window construction. B. J. Triller. 2,403,565; July 9.
Wrapping articles, Method and apparatus for. W. S. Cloud. 2,403,482; July 9.
Wrench: *See*—
  Accessory to turnbuckle wrench.

CLASSIFICATION OF PATENTS

ISSUED JULY 9, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 93: 2,403,598
94: 2,403,676
243: 2,403,786
4— 151: 2,403,430
6— 9: 2,403,840
8— 7: 2,403,461
115.5: 2,403,464
116.2: 2,403,697
9— 1: 2,403,560
8.3: 2,403,539
10— 136: 2,403,484
12— 16: 2,403,621
15— 258: 2,403,575
18— 8: 2,403,476
19: 2,403,482
2,403,644
42: 2,403,780
54: 2,403,437
59: 2,403,739
20— 3.5: 2,403,469
4: 2,403,580
11: 2,403,565
23— 156: 2,403,735
174: 2,403,459
184: 2,403,789
225: 2,403,451
24— 19: 2,403,449
2,403,606
73: 2,403,712
2,403,834
29—149.5: 2,403,645
270: 2,403,623
278: 2,403,666
33— 76: 2,403,633
80: 2,403,614
204: 2,403,874
34— 1: 2,403,900
44: 2,403,630
153: 2,403,819
35— 2: 2,403,736
36— 2.5: 2,403,477
8.5: 2,403,442
36: 2,403,592
78: 2,403,694
2,403,750
2,403,773
37— 115: 2,403,817
38— 15: 2,403,655
40—152.1: 2,403,491
41— 33: 2,403,752
43— 42: 2,403,759
56: 2,403,858
44— 3: 2,403,656
46— 1: 2,403,531
130: 2,403,509
47— 61: Pl.Pt.707
51— 100: 2,403,775
120: 2,403,659
168: 2,403,813
184.3: 2,403,546
185: 2,403,434
212: 2,403,805
294: 2,403,821
58— 24: 2,403,552
80: 2,403,538
60— 97: 2,403,519
61— 36: 2,403,643
62— 3: 2,403,818
108.5: 2,403,846
115: 2,403,528
66— 1: 2,403,766
107: 2,403,864
163: 2,403,548
190: 2,403,652
195: 2,403,793
67— 7.1: 2,403,589
73— 66: 2,403,513
2,403,554

73— 144: 2,403,799
209: 2,403,849
232: 2,403,867
432: 2,403,704
74— 11: 2,403,848
27: 2,403,760
61: 2,403,502
232: 2,403,617
236: 2,403,607
254: 2,403,635
260: 2,403,781
281: 2,403,627
388: 2,403,490
462: 2,403,492
574: 2,403,478
75— 11: 2,403,715
76— 5: 2,403,651
77— 66: 2,403,861
81— 13: 2,403,718
82— 11: 2,403,668
24: 2,403,581
83— 91: 2,403,463
2,403,740
84— 1.21: 2,403,664
85— 2.4: 2,403,541
32: 2,403,810
88— 2.7: 2,403,732
2,403,737
2,403,738
14: 2,403,452
14.6: 2,403,705
16.6: 2,403,733
24: 2,403,711
2,403,892
39: 2,403,747
57: 2,403,660
61: 2,303,730
65: 2,304,731
105: 2,403,685
89— 28: 2,403,641
37: 2,403,591
46: 2,403,882
2,403,883
2,403,884
2,403,886
2,403,887
90— 15: 2,403,573
93— 55.1: 2,403,855
94— 44: 2,403,820
95— 5: 2,403,722
7: 2,403,708
9: 2,403,533
2,403,721
13: 2,403,717
34: 2,403,587
97— 65: 2,403,893
98— 99: 2,403,596
99— 103: 2,403,871
131: 2,403,547
279: 2,403,691
100— 50: 2,403,784
71: 2,403,822
102— 17: 2,403,845
24: 2,403,488
103— 5: 2,403,555
2,403,556
25: 2,403,688
126: 2,403,796
149: 2,403,572
173: 2,403,854
218: 2,403,663
105— 409: 2,403,467
106— 199: 2,403,515
110— 29: 2,403,829
114— 68: 2,403,806
144: 2,403,658
117— 22: 2,403,706
72: 2,403,872

117— 132: 2,403,783
119— 15: 2,403,525
120— 51: 2,403,703
121— 30: 2,403,582
123— 16: 2,403,684
25: 2,403,774
65: 2,403,844
75: 2,403,865
119: 2,403,720
169: 2,403,440
171: 2,403,797
124— 4: 2,403,522
126— 38: 2,403,823
163: 2,403,787
168: 2,403,857
271.3: 2,403,847
128— 191: 2,403,508
129— 16.7: 2,403,701
20: 2,403,530
24: 2,403,851
130— 27: 2,403,638
132— 11: 2,403,551
48: 2,403,601
134— 115: 2,403,526
135— 53: 2,403,632
136— 89: 2,403,863
90: 2,403,567
155: 2,403,571
137— 21: 2,403,850
69.5: 2,403,436
78: 2,403,563
2,403,827
144: 2,403,611
153: 2,403,689
138— 90: 2,403,859
139— 204: 2,403,497
217: 2,403,724
146— 28: 2,403,516
2,403,517
2,403,518
150— 38: 2,403,507
151— 7: 2,403,496
21: 2,403,566
152— 92: 2,403,690
209: 2,403,812
154— 2.22: 2,403,815
43.5: 2,403,836
155— 140: 2,403,558
173: 2,403,537
189: 2,403,653
158— 7: 2,403,431
27.4: 2,403,751
36: 2,403,831
56: 2,403,446
160— 328: 2,403,661
164— 86: 2,403,443
167— 30: 2,403,495
39: 2,403,435
65: 2,403,473
170— 163: 2,403,532
171— 95: 2,403,521
97: 2,403,716
229: 2,403,534
2,403,637
252: 2,403,642
325: 2,403,471
327: 2,403,692
172— 239: 2,403,605
2,403,616
245: 2,403,809
276: 2,403,447
280: 2,403,665
281: 2,403,559
293: 2,403,577
174— 110: 2,403,693
113: 2,403,816
151: 2,403,479
175— 21: 2,403,457

175— 115: 2,403,860
320: 2,403,615
335: 2,403,487
2,403,510
363: 2,403,891
368: 2,403,557
177— 314: 2,403,503
351: 2,403,889
2,403,890
352: 2,403,535
353: 2,403,561
380: 2,403,669
2,403,852
2,403,873
178— 5: 2,403,562
7.2: 2,403,549
2,403,628
22: 2,403,679
2,403,680
2,403,888
42: 2,403,441
45: 2,403,468
71: 2,403,681
2,403,682
179— 1: 2,430,677
1.5: 2,403,540
17: 2,403,877
90: 2,403,475
100.41: 2,403,696
158: 2,403,498
181— 48: 2,403,699
183— 2.5: 2,403,578
24: 2,403,545
57: 2,403,602
77: 2,403,830
184— 6: 2,403,579
188— 88: 2,403,648
152: 2,403,870
251: 2,403,674
189— 34: 2,403,881
37: 2,403,853
84: 2,403,842
192— 01: 2,403,647
8: 2,403,802
53: 2,403,594
193— 38: 2,403,590
194— 13: 2,403,470
196— 13: 2,403,485
49: 2,403,486
52: 2,403,753
55: 2,403,608
110: 2,403,432
198— 34: 2,403,673
53: 2,403,862
122: 2,403,636
200— 37: 2,403,454
39: 2,403,667
201— 63: 2,403,843
204— 123: 2,403,586
206— 17: 2,403,825
79: 2,403,746
209— 110: 2,403,550
166: 2,403,481
167: 2,403,640
210— 7: 2,403,695
213— 34: 2,403,562
2,403,585
214— 1: 2,403,662
8: 2,403,466
140: 2,403,908
215— 38: 2,403,511
2,403,734
218— 19: 2,403,675
219— 10: 2,403,438
20: 2,403,824
38: 2,403,670
46: 2,403,903

220— 26: 2,403,604
40: 2,403,778
54: 2,403,788
223— 91: 2,403,639
229— 44: 2,403,698
62: 2,403,756
230— 182: 2,403,814
209: 2,403,878
234— 70: 2,403,472
235— 60: 2,403,480
61.5: 2,403,504
2,403,505
2,403,506
2,403,542
2,403,543
2,403,544
238— 243: 2,403,807
240— 1: 2,403,702
1.2: 2,403,610
8.11: 2,403,856
48.4: 2,403,646
244— 45: 2,403,499
90: 2,403,770
102: 2,403,835
104: 2,403,523
110: 2,403,456
118: 2,403,595
122: 2,403,838
123: 2,403,568
124: 2,403,569
135: 2,403,749
2,403,754
149: 2,403,832
246— 34: 2,403,744
248— 118: 2,403,654
248: 2,403,588
250— 1: 2,403,527
2,403,626
2: 2,403,625
2,403,755
6: 2,403,500
11: 2,403,429
2,403,600
2,403,603
2,403,622
2,403,727
2,403,728
2,403,729
17: 2,403,624
2,403,726
27.5: 2,403,444
2,403,445
36: 2,403,725
43: 2,403,631
49.5: 2,403,529
251— 27: 2,403,777
115: 2,403,801
163: 2,403,837
252— 32.5: 2,403,764
2,403,765
32.7: 2,403,474
2,403,894
51.5: 2,403,453
118: 2,403,618
2,403,619
161: 2,403,612
2,403,613
254— 164: 2,403,553
169: 2,403,462
257— 3: 2,403,798
259— 28: 2,403,536
260— 16: 2,403,448
41: 2,403,657
2,403,794
42: 2,403,465
2,403,791
70: 2,403,450
100: 2,403,767

260—209.6: 2,403,707
220: 2,403,493
239.6: 2,403,713
2,403,776
250: 2,403,710
251: 2,403,790
307: 2,403,723
345: 2,403,686
397.1: 2,403,683
428.5: 2,403,458
461: 2,403,762
2,403,763
2,403,792
464: 2,403,570
485: 2,403,804
488: 2,405,876
530: 2,403,769
561: 2,403,576
570.8: 2,403,483
610: 2,403,709
2,403,758
2,403,771
2,403,772
623: 2,403,748
666: 2,403,649
668: 2,403,757
671: 2,403,785
2,403,879
676: 2,403,650
681: 2,403,741
2,403,742
2,403,743
683.15: 2,403,779
683.2: 2,403,439
2,403,671
2,403,672
683.4: 2,403,501
2,403,714
2,403,869
683.5: 2,403,811
683.6: 2,403,524
261— 1: 2,403,719
30: 2,403,841
37: 2,403,866
266— 21: 2,403,433
23: 2,403,514
267— 9: 2,403,584
272— 33: 2,403,593
279— 46: 2,403,599
51: 2,403,768
280— 7.13: 2,403,885
104.5: 2,403,833
284— 11: 2,403,620
285— 176: 2,403,678
193: 2,403,839
286— 5: 2,403,687
27: 2,403,875
287— 1: 2,403,868
53: 2,403,494
60: 2,403,828
61: 2,403,512
290— 44: 2,403,564
292— 169: 2,403,597
340: 2,403,826
299— 24: 2,403,880
301— 13: 2,403,634
302— 1: 2,403,751
308— 26: 2,403,489
36.1: 2,403,520
233: 2,403,460
309— 4: 2,403,455
2,403,574
315— 5: 2,403,782
6: 2,403,795
56: 2,403,700
157: 2,403,609
177: 2,403,629
316— 26: 2,403,745

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,403,478: 74—574
2,403,487: 175—335
2,403,496: 151— 7
2,403,515: 106—199
2,403,524: 260—683.6
2,403,534: 171—229
2,403,560: 9— 1
2,403,590: 193— 38
2,403,609: 315—157
2,403,620: 284— 11
2,403,629: 315—177
2,403,631: 250— 43
2,403,649: 260—666
2,403,650: 260—676
2,403,651: 76— 5
2,403,661: 160—328
2,403,664: 84—1.21
2,403,710: 260—250
2,403,721: 95— 9
2,403,722: 95— 5
2,403,739: 18— 59
2,403,760: 78— 27
2,403,834: 24— 73
2,403,855: 93—55.1
2,403,869: 260—683.4
2,403,893: 97— 65
Des. 145,153: D7— 5
Des. 145,185: D42—8

Classification of Designs

D 1—12: Des. 145,178
D 3—17: Des. 145,174
26: Des. 145,160
Des. 145,161
Des. 145,162
Des. 145,163
Des. 145,164
Des. 145,165
D 3—26: Des. 145,166
Des. 145,167
Des. 145,168
Des. 145,169
Des. 145,170
Des. 145,190
D 7— 5: Des. 145,153
7: Des. 145,193
D10— 8: Des. 145,177
D17— 2: Des. 145,173
Des. 145,176
D29—23: Des. 145,154
D42— 8: Des. 145,185
Des. 145,186
Des. 145,187
D44—29: Des. 145,172
D44—29: Des. 145,192
D45—19: Des. 145,151
Des. 145,152
Des. 145,189
D48—27: Des. 145,183
D54—12: Des. 145,150
Des. 145,157
Des. 145,179
D54—12: Des. 145,180
Des. 145,181
D55— 1: Des. 145,159
D58— 6: Des. 145,175
10: Des. 145,184
26: Des. 145,158
D74— 1: Des. 145,171
Des. 145,182
D81—25: Des. 145,188
D85— 2: Des. 145,191
D86—10: Des. 145,156
D90—20: Des. 145,155

U. S. GOVERNMENT PRINTING OFFICE: 1946

Patents Nos. 2,403,895 to 2,404,344

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 588—No. 3 TUESDAY, JULY 16, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of July 16, 1946	351
Notice	351
Adverse Decisions in Interference	351
Adjudicated Patents	351
Notices of Cancellation	351
Applications Under Examination	352
Decisions of the U. S. Courts—	
Houghton v. Ooms, Commissioner of Patents	353
In re Thompson et al	353
Disclaimer	355
Register of Patents Available for Licensing or Sale	356
Trade-Marks Published (218 Applications)	359
Trade-Mark Registrations Granted	386
Trade-Mark Registrations Renewed	391
Reissues	395
Plant Patents	395
Patents Granted	396
Designs	505

July 16, 1946

Trade-Marks	101	No. 422,292 to No.	422,392,	inclusive.
T. M. Renewals	105			
Reissues	2	No. 22,771 to No.	22,772,	inclusive.
Plant Patents	1	No. 708		
Patents	450	No. 2,403,895 to No.	2,404,344,	inclusive.
Designs	49	No. 145,194 to No.	145,242,	inclusive.
Total	708			

Notice

Many attorneys make a practice of sending in amendments in duplicate with a request that the extra copy be returned.

The Patent Office has neither the time nor the force to return these extra copies and they will therefore be destroyed.

Any attorney wishing a receipt for any paper should accompany the paper by a postal card addressed to himself and identifying the paper. The receiving stamp of the mail room will be placed on this card and it will be dropped in the outgoing mail.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed:

Pat. 2,303,935, W. T. Hedlund, Ice shaper, decided Apr. 19, 1946, claims 3, 5, and 9.

Pat. 2,325,390, G. W. Garman, Electric valve translating system, decided Apr. 30, 1946, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, and 11.

Pat. 2,357,546, N. D. Preston, Coded track circuit signaling system, decided May 2, 1946, claim 42.

Adjudicated Patents

(C. C. A. Md.) Rahm patent, No. 1,944,571, for a molding machine, claims 1 and 2 *Held* not infringed. *Wheeling Stamping Co.* v. *Standard Cap & Molding Co.*, 155 F.(2d) 6; 69 USPQ 295.

(C. C. A. Oreg.) Myers patent, No. 2,090,874, for a trailer, claims 1, 2, 3, and 4 *Held* valid and infringed. *Page* v. *Myers*, 155 F.(2d) 57; 69 USPQ 63.

(C. C. A. Md.) Webb patent, No. 2,225,672, for apparatus for molding plastic articles, claim 14 *Held* not infringed. *Wheeling Stamping Co.* v. *Standard Cap and Molding Co.*, 155 F.(2d) 6; 69 USPQ 295.

(C. C. A. Md.) Scott patent, No. 2,226,326, for a molding machine, claims 8, 11, 13, and 17 *Held* not infringed. *Id.*

Notices of Cancellation

U. S. Patent Office, *Richmond, Va., June 13, 1946.*

Bach Laboratories, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Anna-Jean Yuill, 1 North La Salle Street, Chicago, Ill., to effect the cancellation of trade-mark registration of Bach Laboratories, Inc., 68 Springfield Ave., Newark, N. J., No. 278,912, dated January 6, 1931, and the notice of such proceeding sent by registered mail to the said Bach Laboratories, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Bach Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., June 27, 1946.*

Robert Harris, his assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Anna-Jean Yuill, 1 North La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of Robert Harris, No. 358,116, dated June 28, 1938. The assignment records of this Office show a transfer of title to this registration to Alka Bromo Corporation, 6650 Franklin Ave., Los Angeles, Calif., which has been substituted for said Harris to defend the registration concerned. The notice of such proceeding sent by registered mail to Alka Bromo Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Alka Bromo Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business June 28, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 115,915; Trade-Mark Division, 6,574. Oldest new case, February 2, 1945; oldest amended, February 17, 1945.)

(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Mar. 31	May 4	1912
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 16	May 2	2345
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 14	1885
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	June 27	July 30	1986
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 19	Mar. 17	3141
6. GENIESSE, E. W., Carbon Chemistry (part)	July 30	Aug. 3	1808
7. JARBOE, C. G., Optics, Photography	Aug. 20	Sept. 5	2048
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 20	June 18	2632
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 2	Mar. 29	1890
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	May 9	June 18	1329
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 3	Nov. 5	592
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 7	May 26	2065
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 27	1764
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 4	Aug. 22	1247
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	June 23	Aug. 6	1370
16. LOVEWELL, N. N., Telegraphy; Telephony	July 4	June 8	1244
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 12	Feb. 20	1049
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 25	June 11	1652
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 24	Aug. 24	1346
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1556
21. THOMPSON, T. J., Textiles	Aug. 30	Oct. 24	767
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	July 31	June 29	1662
23. LEWIS, J. B., Cash Registers; Calculators (part)	Apr. 3	May 11	258
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	July 23	Sept. 19	1125
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	May 8	May 16	1400
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 2	May 7	1840
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 3	Mar. 23	1871
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 8	Apr. 13	1320
29. SHKLARIN, J. B., Barrage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	May 18	May 2	1918
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	May 21	June 9	2051
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 10	Dec. 11	974
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 6	Aug. 11	1619
33. ROE, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	May 16	May 16	2266
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	June 29	1047
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	July 4	July 9	1581
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 10	May 30	1267
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 30	May 3	1407
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	May 21	July 3	1259
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 7	Apr. 11	2128
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 6	Aug. 11	2150
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Mar. 15	Feb. 17	790
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Aug. 21	Aug. 17	962
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 1	May 11	1368
44. HARVEY, L. P., Refrigeration; Preserving	Mar. 27	Apr. 6	1046
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	June 27	June 21	2051
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	June 5	July 26	1251
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Aug. 17	Sept. 4	2208
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 7	Mar. 20	1807
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 28	July 30	1376
50. LEVIN, SAMUEL, Synthetic Resins	July 4	July 7	2155
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Apr. 18	Apr. 19	2130
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 9	May 4	2795
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	Apr. 13	2654
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	Apr. 10	Apr. 17	2012
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 7	July 2	1565
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Apr. 30	Apr. 30	1562
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 2	Mar. 4	2351
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 2	Oct. 24	1068
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Apr. 10	Apr. 10	2013
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 25	June 2	1850
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 8	May 31	2199
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Feb. 17	Mar. 23	2942
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 13	Apr. 16	2090
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Nov. 30	Nov. 27	1216
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 4	May 10	2226
Trade-Marks: RICHMOND, F. A.	Nov. 23	†Feb. 28	6574
Designs: KALUPY, H. H.	Oct. 24	†Feb. 4	5482

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

HOUGHTON

v.

OOMS, COMMISSIONER OF PATENTS

No. 9,147. Decided June 3, 1946

[— F.(2d) —; 69 USPQ 458]

PATENTABILITY—FUNCTIONAL CLAIMS.

Where the appealed claims did not distinguish over the prior art except in terms of function, and did not define an invention, *Held* that the judgment dismissing appellant's complaint under Section 4915 R. S. would be affirmed.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. David Rines (*Mr. Frank W. Dahn* of counsel) for Houghton.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before EDGERTON, CLARK, and WILBUR K. MILLER, Associate Justices

PER CURIAM:

This is a suit under R. S. § 4915, 35 U. S. C. § 63, to obtain a patent. The record supports the district court's findings that the claims do not distinguish over the prior art except in terms of function, *General Electric Co.* v. *Wabash Appliance Corp.*, 304 U. S. 364, 491 O. G. 463, *Minnesota Mining & Mfg. Co.* v. *Coe*, 72 App. D. C. 183, 113 F.(2d) 512, 519 O. G. 519, and that the claims do not define an invention. The judgment dismissing the complaint is therefore affirmed.

U. S. Court of Customs and Patent Appeals

IN RE THOMPSON ET AL.

No. 5,126. Decided March 6, 1946

[154 F.(2d) 189; 69 USPQ 148]

1. CLAIMS—"MARKUSH" TYPE.

The decision of the Commissioner in *Ex parte Palmer et al.*, 1930 C. D. 3, *Held* properly to limit the broad scope of his earlier decision in *Ex parte Markush*, 1925 C. D. 126, the Commissioner having ruled "that the doctrine in the Markush case was not intended to include all substances which appellant claimed would answer his purpose, regardless of whether they could properly be included as species of a known genus or sub-genus," and having stated "that the Markush doctrine was intended to apply only in a case where the applicant endeavored to avoid a claim so broad as to be unpatentable * * * and to avoid securing a number of patents any of which might be held invalid in view of an earlier issued patent."

2. SAME—SAME.

The Commissioner's decision in *Ex parte Dahlen*, 1934 C. D. 9, *Held* to afford no basis for the allowance of appealed claims 2 and 4, that decision not sustaining appellants' contention to the effect that "having been allowed claim 1 covering about 60 metals they are entitled to group arbitrarily any number thereof and be allowed a further claim on the basis of that grouping even though they have not shown that the group of metals has any property in common by which it is distinguished from other members of the larger group."

3. SAME—SAME.

Held that even assuming that appealed claims 2 and 4, drawn to a sub-generic group of eight polyvalent metals, could be allowed under the doctrine of *Ex parte Dahlen*, 1934 C. D. 9, "appellants have not brought themselves within its scope for the reason that there is nothing in the record to indicate that the genus of polyvalent metals is of vast extent or that there are substances therein of rare occurrences and not easily obtainable for experimentation."

4. SAME—SAME.

"The Board held a Markush type claim which is wholly within the scope of an allowed generic claim to be properly rejectable. In the case of *Mathewson* v. *Campbell* [78 Fed. 910] the principle was laid down that an applicant for a patent should not claim a genus unless he is convinced that all of its species will answer his purpose, and further that an applicant may not properly claim a genus as a result of experiments with only a few of its species. This would seem to be based on the reasoning that the applicant positively represents to the public that the entire genus operates, but nevertheless endeavors to secure allowance for a claim of lesser scope. Such diverse representations are surely built upon diverse hypotheses. We have no doubt the allowance of both types of those claims would violate the principle of *Mathewson* v. *Campbell*."

5. SAME—SAME.

"While it is true that certain language of the Dahlen case might be construed as supporting appellants' contention that they should be allowed both a generic claim and one of more limited Markush type, such a holding appears to be opposed to the general uniform rule announced in the other cases. We are of opinion that that contention should not be approved by us in this case."

6. SAME—SAME.

"Claim 1 calls for 'a metal having a valence of at least two and acting as a cation.' The inclusion of the phrase 'acting as a cation' excludes hexavalent chromium, which as its name implies has a valence of six. Therefore that claim would seem to include an artificial grouping, and is no different than if all of the polyvalent metals excepting hexavalent chromium were set out. This might well be interpreted as a Markush claim."

7. SAME—SAME.

"More than one Markush type of claim may not be allowed within the same genus."

APPEAL from the Patent Office. Affirmed.

Messrs. Owen & Owen (*Mr. Scott H. Lilly* of counsel) for Thompson et al.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

The issue presented by this appeal, the denial by the tribunals of the United States Patent Office of claims 2 and 4 of an application for a "Corrosion-Resistant Metallic Article and Method of Making the Same," was here previously in *In re Thompson et al.*, 31 C. C. P. A. (Patents) 1121, 143 F.(2d) 357, 61 USPQ 498, 565 O. G. 719.

There, all of the claims were allowed except 2 and 4, which were rejected as not being drawn in accordance with the Markush doctrine. We reversed the decision of the Board of Appeals and remanded the case for the sole purpose of having the reasons for the rejection of those claims more clearly explained.

In the instant case the Board of Appeals affirmed the decision of the Primary Examiner again rejecting the claims as not being proper Markush claims.

Allowed claim 1 and the involved claims read as follows:

1. A process which comprises applying to an industrial metallic surface a film of an acidulous aqueous solution the chief compounds in the solution as applied containing the PO_4 radical, hexavalent chromium and a metal having a valence of at least two and acting as a cation, said film containing sufficient chemicals to form a corrosion-resistant paint-holding coat when dried, and drying the film on the metallic surface.

2. A process which comprises applying to an industrial metallic surface a film of an acidulous aqueous solution the chief compounds in the solution as applied containing the PO_4 radical, hexavalent chromium and a metal of the group consisting of zinc, manganese, trivalent chromium, aluminum, magnesium, cadmium, calcium and nickel, said film containing sufficient chemicals to form a corrosion-resistant paint-holding coat when dried, and drying the film on the metallic surface.

4. A process which comprises applying to an industrial metallic surface a solution containing as its chief ingredients when applied phosphoric acid, chromic acid and a salt of a metal of the group consisting of zinc, manganese, trivalent chromium, aluminum, magnesium, cadmium, calcium and nickel, said film containing sufficient chemicals to form a corrosion-resistant paint-holding coat when dried, and drying the film on the metallic surface.

The Examiner stated that the only ground upon which claims 2 and 4 could be allowed would have to be that all of the members of the group belong to a known class of materials with such closely related chemical properties that the discovery of a certain characteristic in one would suggest its presence in the others. He stated that the exact chemical reaction by reason of which any of those elements would increase the corrosion-resistance character of the coating was not known. The Examiner pointed out that all those elements belong to the general class of metals, possessing the general characteristics of "metallic luster, good heat and electrical conductivity etc." He stated those properties had no function in the process of the claims, and the physical and chemical properties in the general class of metals varied so widely that the discovery that one is operable in appellants' process would not suggest that any other would function similarly.

Appellants contended before the Examiner that the metals recited in the involved claims must have a valence of at least two and form phosphates or chromates, and that that was a sufficient basis for placing them in a Markush grouping. The Examiner rejected that contention for the reason that appellants did not show, and it was not clear to him, why the discovery of one metal having those characteristics useful in appellants' process would suggest that every other metal having a valence of at least two and forming phosphates or chromates could accomplish the same result. He noted that all metals except the alkali group have a valence of more than one and that practically all metals have the capacity to form phosphates or chromates. He finally held that it was his studied opinion that in view of the great physical and chemical differences between the metals included in the grouping that appellants' contention was entirely untenable. The Examiner summarized his understanding of Markush groupings as follows:

> • • • (1) only substances which have been recognized to have such a community of chemical or physical properties that the discovery of the desired property in one would suggest its existence in the others, may be grouped in a Markush group, (2) the fact that these similarities have been recognized may be established by means of scientific texts in which the substances have been classified in groups because of the similarity in their properties or by means of trade publications, patents, etc. which show that the substances have become recognized as equivalents for their intended purpose. • • •

The Board of Appeals agreed with the Examiner's reasons, and in addition thereto suggested that the allowance of claim 1 would preclude the allowance of the rejected claims. The Board held that possibly the group of metals in the rejected claims might have been allowable as being within the scope of the case of *Ex parte Markush*, 1925 C. D. 126, 340 O. G. 839, wherein there was no requirement for the recognition of the group as such, and the test seemed to have been principally that the applicant discovered the particular elements equivalents in his combination. In that case it seems that the only limitation was an avoidance in the grouping of things so dissimilar as to support separate patents.

The Board then pointed out that the practice approved in the Markush case was narrowed in the case of *Ex parte Palmer et al.*, 1930 C. D. 3, 7 USPQ 11, 398 O. G. 707, in that the Markush grouping must be found to come within the scope of a previously recognized classification group. In that case it was sought to couple neutral salts and cane sugar in one group as relustering agents for cellulose acetate filaments. The Commissioner held that if separate claims were presented in that application, one for neutral salts and the other for cane sugar, division would have to have been ordered. He stated that those substances were present in no known or recognized genus except that both might be described as relustering agents in an artificial genus, but that the record presented nothing to show that if neutral salts had been discovered to possess the property of relustering it would suggest the same use for cane sugar.

The Board observed that the application of the rule laid down in the Palmer et al. case had possibly resulted in some differences of opinion in the Patent Office, in that some decisions tended to follow the broad original Markush principle and others had endeavored to compel the placing of alleged Markush groups under some one of a previously recognized group. The Board then held that the grouping involved here does not square with the requirements of the Palmer et al. case, for the reason that the group is not found previously recognized as such and it is not apparent that the properties of one member would suggest the properties of another as a probable equivalent to one skilled in the art.

The Board then discussed the case of *Ex parte Burke*, 1934 C. D. 5, 21 USPQ 399, 441 O. G. 509, for the purpose of pointing out a further limitation with respect to the Markush doctrine. That limitation prohibited the allowance of sub-generic claims of lesser scope under a more comprehensive grouping of all of them. The Board held that claims 2 and 4 seem to conflict with the rule laid down there for the reason that the allowed claims applied to all polyvalent metals as a generic group of about 60, while the involved claims include only 8 as a sub-generic group.

Appellants contended below as they do here that the involved claims are allowable, particularly under the decision in the case of *Ex parte Dahlen*, 1934 C. D. 9, 21 USPQ 397, 441 O. G. 510. The Board admitted that part of the language in that case, standing alone, might warrant allowance of claims 2 and 4, but pointed out that a reading of the entire decision would not be persuasive of allowance.

[1] It is clear that in claim 1 appellants include all of the polyvalent metals, and if they all operate in their process appellants are fully protected. There is nothing in the record, as pointed out by the tribunals below, wherein appellants show or suggest that the metals of the groups in claims 2 and 4 differ in any respect from the other polyvalent metals, and therefore those metals cannot properly be combined in a Markush grouping under any of the cases with the possible exception of the Dahlen case, upon which appellants chiefly rely, or under the broad doctrine, subsequently limited, of the Markush case. The decision in the latter case was clarified in the Palmer et al. case by the same First Assistant Commissioner. He held there that the doctrine in the Markush case was not intended to include all substances which appellant claimed would answer his purpose, regardless of whether they could properly be included as species of a known genus or sub-genus. He stated that the Markush doctrine was intended to apply only in a case where the applicant endeavored to avoid a claim so broad as to be unpatentable, citing *Mathewson* v. *Campbell*, 78 Fed. 910, and subsequent decisions, and to avoid securing a number of patents any of which might be held invalid in view of an earlier issued patent. In our opinion the decision in the Palmer et al. case, as was held below, properly limits the broad scope of the decision in the Markush case, and therefore the claims here involved are not allowable under the Palmer et al. decision.

[2][3] It appears to us that the decision in the Dahlen case should not be approved by this court in the manner contended for by appellants. Their contention in effect must be that having been allowed claim 1 covering about 60 metals they are entitled to group arbitrarily any number thereof and be allowed a further claim on the basis of that grouping even though they have not shown that the group of metals has any property in common by which it is distinguished from other members of the larger group. While the Board pointed out that some of the language of that case standing alone might provide a basis for appellants' contention, it held that the case stands for the principle that such a claim is justifiable only on the theory that the grouped substances have common properties not shared by the larger group or genus.

We are of opinion that the Dahlen case affords no basis for the allowance of claims 2 and 4 in view of the facts herein. Even assuming that those claims could be allowed under the doctrine of that case, appellants have not brought themselves within its scope for the reason that there is nothing in the record to indicate that the genus of polyvalent metals is of vast extent or that there are substances therein of rare occurrences and not easily obtainable for experimentation.

[4] The Board held a Markush type claim which is wholly within the scope of an allowed generic claim to be properly rejectable. In the case of *Mathewson* v. *Campbell*, supra, the principle was laid down that an applicant for a patent should not claim a genus unless he is convinced that all of its species will answer his purpose, and further that an applicant may not properly claim a genus as a result of experiments with only a few of its species. This would seem to be based on the reasoning that the applicant positively represents to the public that the entire genus operates, but nevertheless endeavors to secure allowance for a claim of lesser scope. Such diverse representations are surely built upon diverse hypotheses. We have no doubt the allowance of both types of those claims would violate the principle of *Mathewson* v. *Campbell*.

[5] While it is true that certain language of the Dahlen case might be construed as supporting appellants' contention that they should be allowed both a generic claim and one of more limited Markush type, such a holding appears to be opposed to the general uniform rule announced in the other cases. We are of opinion that that contention should not be approved by us in this case.

[6][7] While the tribunals of the Patent Office did not reject the involved claims for the reason that claim 1 might be construed, as pointed out in the brief of the Solicitor, as a Markush claim, it is interesting to observe that claim 1 calls for "a metal having a valence of at least two and acting as a cation." The inclusion of the phrase "acting as a cation" excluded hexavalent chromium, which as its name implies has a valence of six. Therefore that claim would seem to include an artificial grouping, and is no different than if all of the polyvalent metals excepting hexavaleht chromium were set out. This might well be interpreted as a Markush claim. It certainly meets the definition in the case of *Ex parte Clarke et al.*, 1931 C. D. 6, 11 USPQ 52, 412 O. G. 3, that a Markush claim is "a generic term limited by explanatory terms." More than one Markush type of claim may not be allowed within the same genus. *Ex parte Burke*, supra.

For the reasons above stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Disclaimer

2,325,390.—*George W. Garman*, Glenville, N. Y. ELECTRIC VALVE TRANSLATING SYSTEM. Patent dated July 27, 1943. Disclaimer filed June 7, 1946, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 8, 9, and 11 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,166,320. ADJUSTABLE HOLDER FOR ROLL MATERIAL. Patented July 18, 1939. Device for kitchen or bathroom use comprising a flush-mounting housing for rotatably supporting and automatically advancing a roll of paper in one direction. A combined guard plate and lap across the front of device for holding and tearing the paper also prevents accumulation of dust. Adjustable for different sizes of roll material. (Owner) Bohdan Posatsky, 4151 75th St., Jackson Heights, Long Island, N. Y. Groups 25—99; 32—61; 33—51. Reg. No. 3,009.

Pat. 2,120,613. MATERIAL GRADER AND CLEANER. Patented June 14, 1938. Device for grading and cleaning granular material, such as grain. Material is dumped into hopper, sheeve rotated, causing rotation of feeder roll and fan. A uniform curtain of grain, free from chaff, is fed over edge of apron and kernels fall into bins and proceed to containers under their respective openings, effectively grading kernels. (Owner) Arthur L. Johnson, 828 North Broadway, Milwaukee, Wis. Group 35—22. Reg. No. 3,010.

Pat. 2,019,377. RAIL TIE AND FASTENING MEANS. Patented Oct. 29, 1935. Provides a spike assembly and a hollow metal rail supporting tie with a removable top portion to permit access to interior. The rail rests on a cushioning filler or block of wood placed in a box-like receptacle, which is adjusted vertically and retained in place by the combination of an inclined flanged riser on bottom of tie, a flanged wedge and thrust plate. Two pairs of spikes with their heads engaging the rail on opposite sides of receptacle extend downwardly through holes in top of tie. The spikes have slots for a portion of their length and are anchored in place solely by a cross bar and a bent resilient bar passing through the slots, the resilient bar pressing downwardly on the cross bar and upwardly against the under side of the rail. (Owner) Constantin Alexief, 28 South Gordon St., Gouverneur, N. Y. Group 33—12. Reg. No. 3,011.

Pat. 2,391,657. TRAIN BOOSTER. Patented Dec. 25, 1945. An attachment for railroad locomotives used to overcome sluggishness of a standing train. Metal blocks channeled to seat over a rail are attached to jack pivotally attached to rear of locomotive. Engineer lowers jack so blocks rest over the rails and then applies fluid pressure to jack, forcing train forward length of stroke of jack piston rod. This is repeated until train has acquired sufficient momentum to permit wheels to roll on rails. When this is accomplished engineer raises jack and blocks from the rails. (Owner) Jacob E. Tavelin. Address correspondence to Anthony J. LaBelle, 412 Broadway, Saratoga Springs, N. Y. Groups 35—42; 37—11. Reg. No. 3,012.

Pat. 2,379,529. CAP FOR GREASE FITTINGS. Patented July 3, 1945. Combined buffer and cap of rubber-like material detachably secured upon grease fittings of automobile bearings, etc. Interior of cap is held out of contact with outer end of fitting, providing an effective seal against moisture and dirt. Comprised of a thick buffer head which prevents accidental injury to the fitting and a socket portion of less diameter which has a press fit in opening to bearing. Adhesion of rubber to end of fitting or contamination of grease by rubber particles is avoided. (Owner) Earl M. Kennedy, 1648 East 77th St., Cleveland, Ohio. Group 38—31. Reg. No. 3,013.

Pat. 2,395,541. WRENCH. Patented Feb. 26, 1946. Wrench is adapted to firmly grip side of a connecting rod so that piston may be moved to facilitate alignment and connection of rod to crankshaft without necessity of reaching far up into engine block. Wrench has an elongated tubular shank with a right angularly extending head on one end. A pair of jaws are associated with head and a rod extends through bore of tube shank. By turning a knob on lower end of rod the jaws (normally held open by a spring) are firmly closed and remain closed until knob is turned in reverse direction. (Owner) Walter C. Fagel, 1226 Wendell Ave., Schenectady 8, N. Y. Group 33—52. Reg. No. 3,014.

Pat. 2,396,103. JACK CONSTRUCTION. Patented Mar. 5, 1946. Lifting jack is operated by a vertically swinging lever balanced by its forked end which straddles rack bar and load head providing a more direct lift and preventing twisting of jack. During upward movement, weight of load is supported by lifting pawl, which moves by spring pressure over teeth of rack bar and into recess. To lower, reverse action. (Owner) Achille Kais, 5659 Linwood Ave., Detroit 8, Mich. Groups 33—52; 38—31. Reg. No. 3,015.

Pat. 2,396,130. AIR JET PROPELLED HELICOPTER. Patented Mar. 5, 1946. Power propeller is located in draft funnel in nose of fuselage. An elbowed pipe with discharge conduit extends vertically from inner end of funnel and through and above crown of fuselage beneath lifter and descent propeller. Air jet nozzles are provided in upper end of pipe below propeller. The air therefrom is regulated by valves and determines courses of plane. (Owner) Anthony Sbrilli, 2 Whitman Place, Route #19, New Brunswick, N. J. Group 37—21. Reg. No. 3,016.

Pat. 2,303,055. LAWN MOWER. Patented Nov. 24, 1942. An easily operated, light-in-weight lawn mower quickly assembled and inexpensive to manufacture. Most parts, including reel and wheels, are stamped from sheet metal. All parts are easily and accurately adjusted by the manipulation of set screws and adjusting bolts. (Owner) Dominic M. Lardi, Box 403, Canaan, Conn. Groups 33—73; 35—22. Reg. No. 3,017.

Pat. 2,396,877. ATTACHMENT FOR STEEL TAPES. Patented Mar. 19, 1946. Metal attachment for measuring tapes has upper and lower jaws forming a channel through which tape passes. Device is shifted along tape to desired position and tightened by set screw. One end has pointer and a recess for holding a pencil point. May also be used as a compass for drawing circles by holding tape by one end as a pivot and swinging about pivot. (Owner) Arthur G. Peterson, 247 West 103d St., Chicago, Ill. Group 33—73. Reg. No. 3,018.

Pat. 2,396,114. LIGHTER FLINT. Patented Mar. 5, 1946. Flint for cigar or cigarette lighters which automatically produces an effective spark at all times. Serrations over surface of flint are similar to serrations of friction wheel, thereby causing a constant crumbling of edges as flint is fed against wheel. Flint turns as it is advanced, reducing excessive grooving and increasing sharpness of spark. (Owner) John F. Neuerburg, Red Cloud, Nebr. Groups 36—21; 39—99. Reg. No. 3,019.

Pat. 2,396,591. ELECTRIC IGNITER. Patented Mar. 12, 1946. Cigar and cigarette lighter, which may be plugged into suitable source of power, comprises a handle having a porcelain mount projecting therefrom around which a resistance coil is spirally wound and a safety guard or cage made of wire enclosing coil. Switch is provided on handle and wires extend through bores in handle and mount. (Owner) Alex Melniczak, 8 Court B, Canterbury Apts., Camden, N. J. Groups 36—21; 39—99. Reg. No. 3,020.

Pat. 2,251,182. WINDOW LOCK. Patented July 29, 1941. Fastener consists of a small pair of hinged plates, the first of which is concealed between the two contacting sash rails and recessed in the lower rail of the upper sash, the other formed to fit over a wedge-shaped metallic block which has been secured to the upper rail of the lower sash. The device may be moved to locked or unlocked position by swinging the fastening member on its pivot. (Owner) Robert L. Woodward, Jr., A-1 Forrest Hills Apts., Nashville, Tenn. Group 25—41. Reg. No. 3,021.

The following list covers television and radio patents placed on the Register by Farnsworth Television & Radio Corporation for licensing under standard terms and conditions. Additional lists will be published from time to time. Inquiries for detailed information should be directed to Patent Department, Farnsworth Television & Radio Corporation, Fort Wayne, Indiana. Group 36—61. Reg. Nos. 3,022 to 3,108 inclusive.

Pat. 1,758,359. ELECTRIC OSCILLATOR SYSTEM. Patented May 13, 1930.

Pat. 1,773,980. TELEVISION SYSTEM. Patented Aug. 26, 1930.

Pat. 1,773,981. TELEVISION RECEIVING SYSTEM. Patented Aug. 26, 1930.

Pat. 1,806,935. LIGHT VALVE. Patented May 26, 1931.

Pat. 1,844,949. SYNCHRONIZING SYSTEM. Patented Feb. 16, 1932.

Pat. 1,923,252. PHASING DEVICE. Patented Aug. 22, 1933.

Pat. 1,941,344. DISSECTOR TARGET. Patented Dec. 26, 1933.

Pat. 1,969,399. ELECTRON MULTIPLIER. Patented Aug. 7, 1934. (Reissued.)

Pat. 1,970,036. PHOTOELECTRIC APPARATUS. Patented Aug. 14, 1934.

Pat. 1,975,143. THERMIONIC VACUUM TUBE. Patented Oct. 2, 1934.

Pat. 1,979,539. METHOD OF PRODUCTION OF REFRACTORY METAL LEAF. Patented Nov. 6, 1934.

Pat. 1,986,330. ELECTRICAL DISCHARGE APPARATUS. Patented Jan. 1, 1935.

Pat. 1,986,331. ADMITTANCE NEUTRALIZING AMPLIFIER. Patented Jan. 1, 1935.

Pat. 2,000,570. SEPARABLE TUBE CONNECTOR. Patented May 7, 1935.

Pat. 2,020,025. CATHODE RAY TUBE. Patented Nov. 5, 1935.

Pat. 2,026,379. SYSTEM OF PULSE TRANSMISSION. Patented Dec. 31, 1935.

Pat. 2,037,711. METHOD AND APPARATUS FOR TELEVISION. Patented Apr. 21, 1936.

Pat. 2,043,161. TONE CONTROL SYSTEMS FOR ELECTRICAL SOUND REPRODUCTION. Patented June 2, 1936.

Pat. 2,051,372. SCANNING AND SYNCHRONIZING SYSTEM. Patented Aug. 18, 1936.

Pat. 2,056,545. FLUORESCENT SCREEN. Patented Oct. 6, 1936.

Pat. 2,059,219. SLOPE-WAVE GENERATOR. Patented Nov. 3, 1936.

Pat. 2,059,683. SCANNING OSCILLATOR. Patented Nov. 3, 1936.

Pat. 2,066,070. INCANDESCENT LIGHT SOURCE. Patented Dec. 29, 1936.

Pat. 2,071,515. ELECTRON MULTIPLYING DEVICE. Patented Feb. 23, 1937.

Pat. 2,071,516. OSCILLATION GENERATOR. Patented Feb. 23, 1937.

Pat. 2,071,517. MULTIPACTOR PHASE CONTROL. Patented Feb. 23, 1937.

Pat. 2,075,377. MEANS AND METHOD OF FORMING DISCRETE AREAS. Patented Mar. 30, 1937.

Pat. 2,075,378. MEANS AND METHOD FOR COLLECTING SECONDARY ELECTRONS. Patented Mar. 30, 1937.

Pat. 2,075,379. TIME DELAY OSCILLATOR. Patented Mar. 30, 1937.

Pat. 2,075,380. MEANS FOR MODULATING HIGH FREQUENCY CURRENTS. Patented Mar. 30, 1937.

Pat. 2,079,137. FLUID COOLED TUBE. Patented May 4, 1937.

Pat. 2,079,163. ELECTRON GUN. Patented May 4, 1937.

Pat. 2,079,884. PROTECTED GRID. Patented May 11, 1937.

Pat. 2,082,268. GETTER CARTRIDGE. Patented June 1, 1937.

Pat. 2,085,742. ELECTRON IMAGE AMPLIFIER. Patented July 6, 1937.

Pat. 2,087,683. IMAGE DISSECTOR. Patented July 20, 1937.

Pat. 2,087,901. ACOUSTIC DEVICES. Patented July 27, 1937.

Pat. 2,089,054. INCANDESCENT LIGHT SOURCE. Patented Aug. 3, 1937.

Pat. 2,091,011. SOUND REPRODUCER. Patented Aug. 24, 1937.

Pat. 2,091,439. MULTIPACTOR OSCILLATOR AND AMPLIFIER. Patented Aug. 31, 1937.

Pat. 2,091,705. PROJECTION APPARATUS. Patented Aug. 31, 1937.

Pat. 2,093,699. CATHODE RAY TUBE. Patented Sept. 21, 1937.

Pat. 2,096,800. SIGNALING SYSTEMS. Patented Oct. 26, 1937.

Pat. 2,097,994. INCANDESCENT SCREEN. Patented Nov. 2, 1937.

Pat. 2,098,000. LUMINESCENT SCREEN. Patented Nov. 2, 1937.

Pat. 2,099,846. THERMIONIC OSCILLOGRAPH. Patented Nov. 23, 1937.

Pat. 2,100,841. IMAGE ANALYSIS TUBE. Patented Nov. 30, 1937.

Pat. 2,100,842. CHARGE STORAGE TUBE. Patented Nov. 30, 1937.

Pat. 2,101,462. GRID. Patented Dec. 7, 1937.

Pat. 2,104,253. LUMINESCENT SCREEN AND METHOD OF USE. Patented Jan. 4, 1938.

Pat. 2,104,834. CATHODE RAY OSCILLATOR. Patented Jan. 11, 1938.

Pat. 2,107,778. MEANS FOR GENERATING A PULSE IN A CATHODE RAY TUBE. Patented Feb. 8, 1938.

Pat. 2,107,782. RADIATION FREQUENCY CONVERTER. Patented Feb. 8, 1938.

Pat. 2,107,784. ENVELOPE SHIELD AND METHOD OF DEPOSITING METAL AREAS. Patented Feb. 8, 1938.

Pat. 2,109,289. HIGH POWER PROJECTION OSCILLOGRAPH. Patented Feb. 22, 1938.

Pat. 2,118,186. IMAGE RECEIVING TUBE. Patented May 24, 1938.

Re. 20,759. ELECTRON MULTIPLIER. Reissued June 14, 1938. (Reissue of Patent No. 1,969,399.)

Pat. 2,123,412. MOSAIC AND TRANSLUCENT SURFACE. Patented July 12, 1938.

Pat. 2,124,057. BEAM SCANNING DISSECTOR. Patented July 19, 1938.

Pat. 2,125,910. VACUUM VALVE. Patented Aug. 9, 1938.

Pat. 2,128,580. MEANS AND METHOD OF OPERATING ELECTRON MULTIPLIERS. Patented Aug. 30, 1938.

Pat. 2,128,581. FINE BEAM ELECTRON GUN. Patented Aug. 30, 1938.

2,128,582. PHOTOELECTRIC SURFACE. Patented Aug. 30, 1938.

Pat. 2,129,169. ILLUMINATED DIALS. Patented Sept. 6, 1938.

Pat. 2,135,149. IMAGE DISSECTOR AND METHOD OF ELECTRON BEAM ANALYSIS. Patented Nov. 1, 1938.

Pat. 2,135,615. MULTIPACTOR. Patented Nov. 8, 1938.

Pat. 2,137,528. MULTIPACTOR OSCILLATOR. Patented Nov. 22, 1938.

Pat. 2,139,813. SECONDARY EMISSION ELECTRODE. Patented Dec. 13, 1938.

Pat. 2,139,814. CATHODE RAY TUBE. Patented Dec. 13, 1938.

Pat. 2,140,284. PROJECTING OSCILLIGHT. Patented Dec. 13, 1938.

Pat. 2,140,285. MULTIPLIER COUPLING SYSTEM. Patented Dec. 13, 1938.

Pat. 2,140,695. CHARGE STORAGE DISSECTOR. Patented Dec. 20, 1938.

Pat. 2,140,832. MEANS AND METHOD OF CONTROLLING ELECTRON MULTIPLIERS. Patented Dec. 20, 1938.

Pat. 2,141,836. CHARGE STORAGE DISSECTOR TUBE. Patented Dec. 27, 1938.

Pat. 2,141,837. MULTISTAGE MULTIPACTOR. Patented Dec. 27, 1938.

Pat. 2,141,838. SPLIT CATHODE MULTIPLIER TUBE. Patented Dec. 27, 1938.

Pat. 2,143,145. PROJECTION MEANS. Patented Jan. 10, 1939.

Pat. 2,143,146. REPEATER. Patented Jan. 10, 1939.

Pat. 2,143,262. MEANS FOR ELECTRON MULTIPLICATION. Patented Jan. 10, 1939.

Pat. 2,147,934. CONCENTRIC MULTIPACTOR. Patented Feb. 21, 1939.

Pat. 2,149,045. CATHODE RAY TUBE. Patented Feb. 28, 1939.

Pat. 2,153,918. DISSECTOR TUBE. Patented Apr. 11, 1939.

Pat. 2,153,949. CATHODE RAY OSCILLOSCOPE. Patented Apr. 11, 1939.

Pat. 2,155,478. MEANS FOR PRODUCING INCANDESCENT IMAGES. Patented Apr. 11, 1939.

Pat. 2,155,479. MEANS AND METHOD FOR TRANSMITTING SYNCHRONIZING PULSES IN TELEVISION. Patented Apr. 25, 1939.

Pat. 2,156,807. DETECTOR. Patented May 2, 1939.

Pat. 2,158,279. CATHODE RAY TUBE. Patented May 16, 1939.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 16, 1946

[VOL. 588. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 478,138. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 1, 1945.

HEATHER

FOR LEATHER.
Claims use since July 10, 1922.

Ser. No. 478,139. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 1, 1945.

ELK MOOR

The word "Elk" is disclaimed separate and apart from the mark.
FOR LEATHER.
Claims use since Apr. 1, 1924.

Ser. No. 478,140. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 1, 1945.

THISTLE

FOR LEATHER.
Claims use since Jan. 1, 1924.

Ser. No. 490,888. KENDALL REFINING COMPANY, Bradford, Pa. Filed Nov. 1, 1945.

KENDEX

FOR THERMOPLASTIC RESINS IN BULK FORM AND IN EXTRUDED, SHEETED, POWDERED, AND MOLDABLE FORM.
Claims use since Aug. 11, 1945.

Ser. No. 492,683. CELLUPLASTIC CORPORATION, Newark, N. J. Filed Dec. 5, 1945.

VICTOCEL

FOR PLASTIC MATERIALS IN SHEET AND OTHER FABRICATED FORMS.
Claims use since Sept. 11, 1945.

CLASS 2

RECEPTACLES

Ser. No. 497,785. DIXIE CUP COMPANY, Chicago, Ill. Filed Mar. 7, 1946.

BY DIXIE CUP CO.

No rights are claimed for the words "By Cup Co." apart from the mark.
FOR PAPER CUPS.
Claims use since Dec. 4, 1945.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 484,082. BYCK BROS. & COMPANY, INCORPORATED, Louisville, Ky. Filed June 2, 1945.

Magnolia White

Applicant disclaims the right to the use of the word "White" per se.
FOR LADIES' HANDBAGS.
Claims use since Apr. 6, 1945.

Ser. No. 498,081. D. RODITI & SONS, INC., New York, N. Y. Filed Mar. 12, 1946.

OUT OF THIS WORLD

FOR POCKETBOOKS, BRIEF CASES, PORTFOLIOS, SUITCASES, AND BILLFOLDS.
Claims use since Feb. 2, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 483,474. GENERAL ABRASIVE COMPANY, INC., Niagara Falls, N. Y. Filed May 17, 1945.

FUT-SURE

FOR FUSED ALUMINA ABRASIVES SOLD IN GRANULAR FORM IN BULK OR PLASTIC FORM AND IS USED FOR APPLICATION TO FLOORS AND OTHER SURFACES TO PREVENT SLIPPAGE.
Claims use since July 1, 1932.

Ser. No. 483,475. GENERAL ABRASIVE COMPANY, INC., Niagara Falls, N. Y. Filed May 17, 1945.

LIONBLAST

FOR FUSED ALUMINA ABRASIVES IN GRANULAR FORM IN BULK AND FUSED ALUMINA AND SILICON CARBIDE FOR SANDBLASTING OR FOR VALVE GRINDING COMPOUND.
Claims use since Jan. 21, 1935.

Ser. No. 483,476. GENERAL ABRASIVE COMPANY, INC., Niagara Falls, N. Y. Filed May 17, 1945.

LITHOLITE

FOR FUSED ALUMINA ABRASIVES IN GRANULAR FORM IN BULK USED FOR GRAINING PRINTING PLATES.
Claims use since July 12, 1935.

Ser. No. 486,249. GRAY-MILLS CO., Evanston, Ill. Filed July 25, 1945.

AGITENE

FOR GENERAL PURPOSE SOLVENT HAVING A HYDROCARBON BASE FOR REMOVING OIL AND GREASE FROM METAL PARTS AND TOOLS.
Claims use since March 1945.

Ser. No. 488,807. "42" PRODUCTS, LTD., doing business as Windsor House, Ltd., Los Angeles, Calif. Filed Sept. 21, 1945.

TOILETRIES IN GOLD

Applicant makes no claim to the word "Toiletries" apart from the mark, or to a container of any particular color. The color lining in the drawing denotes gold.
FOR BRUSHLESS SHAVING CREAM, LATHERING SHAVING CREAM, SHAVING SOAP, AND HAND SOAP.
Claims use since Aug. 28, 1945.

Ser. No. 492,566. KNOX CHEMICAL COMPANY, Chicago, Ill. Filed Dec. 3, 1945.

KACECO
KLEENZIT

The word "Kleenzit" is disclaimed apart from the mark.
FOR LIQUID CLEANING FLUIDS AND GREASE REMOVERS.
Claims use since Sept. 15, 1944.

Ser. No. 492,631. LABRATEST, INC., Long Island City, N. Y. Filed Dec. 4, 1945.

SPOT-NOK

Applicant disclaims the right to the use of the word "Spot" apart from the mark.
FOR CLEANSING POWDER.
Claims use since Nov. 13, 1945.

Ser. No. 492,756. H. LEE WOLFE COMPANY, Chicago, Ill. Filed Dec. 5, 1945.

LIG-MUL

FOR SOAP.
Claims use since Feb. 1, 1941.

Ser. No. 494,554. GENERAL ANILINE & FILM CORPORATION, New York, N. Y. Filed Jan. 10, 1946.

DEE-ONE

FOR CLEANSING COMPOSITIONS HAVING SURFACE ACTIVE AND WETTING PROPERTIES.
Claims use since Oct. 25, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 457,225. KARL MALLARD, doing business as A. E. Mallard, Detroit, Mich. Filed Dec. 5, 1942.

LUMAJEL

FOR PREPARATION FOR THE TREATMENT OF GASTRIC (STOMACH) OR DUODENAL (INTESTINAL) ULCERS, AS WELL AS FOR HYPERACIDITY.
Claims use since Mar. 2, 1939.

Ser. No. 478,030. CLAY-ADAMS COMPANY, INC., New York, N. Y. Filed Dec. 29, 1944.

SEALSKIN

FOR LIQUID COATING MATERIAL USED AS A SUBSTITUTE FOR SURGICAL ADHESIVE PLASTER FOR USE IN FORMING A FILM OVER WOUNDS.
Claims use since Mar. 1, 1944.

Ser. No. 479,833. OTIS CLAPP & SON, INC., Boston, Mass. Filed Feb. 15, 1945.

OCAS

FOR HAIR DRESSING, SHAMPOO, HAND LOTION, SMELLING SALTS, AFTER-SHAVE LOTION, DENTIFRICE, LAXATIVE, NASAL CREAM, AND DOUCHE POWDER.
Claims use since Jan. 1, 1904.

Ser. No. 480,957. NIXON, STUART & BARKER, Peoria, Ill. Filed Mar. 15, 1945.

Glyeuthymenol

FOR MEDICAMENT FOR THE TREATMENT OF FEMALE DISORDERS, SUCH AS LEUCORRHEA, ULCERATIONS OF THE WOMB, INFLAMMATION OF THE MUCOUS MEMBRANES, AS A HEALING ANTISEPTIC GERMICIDE AND ASTRINGENT.
Claims use since Mar. 2, 1924.

Ser. No. 481,048. GEORGE BEGLEY, JR., doing business as Parfum Dalmora, Chicago, Ill. Filed Mar. 19, 1945.

TARRA

FOR PERFUME AND COLOGNE.
Claims use since Oct. 16, 1943.

Ser. No. 481,232. JACK MAY, doing business as Sardeau, New York, N. Y. Filed Mar. 23, 1945.



FOR PERFUME, LIPSTICKS, ROUGE, FACE POWDER, FACIAL MAKE-UP, COLD CREAM, HAND LOTION, COLOGNE, TOILET WATER, BRILLIANTINE, SHAMPOO, AND NAIL POLISH.
Claims use since Jan. 5, 1939.

Ser. No. 485,633. EFFICIENCY LABORATORIES, New Orleans, La. Filed July 10, 1945.

Merveille

FOR ANTISEPTIC POWDER FOR THE RELIEF OF PRICKLY HEAT, ABRASIONS, CHAFED ITCHING SKIN, AND ATHLETE'S FOOT.
Claims use since Dec. 2, 1944.

Ser. No. 485,814. DARPRO CHEMICAL CORPORATION, Newark, N. J. Filed July 14, 1945.



No claim is made to the words "Service", "Quality" or "Performance" or to the phrase "Chemical Corporation", apart from the mark.
FOR TITANIUM COMPOUNDS FOR TEXTILE STRIPPING OPERATIONS AND DELUSTRANTS.
Claims use since Mar. 20, 1945.

Ser. No. 487,295. LILLIAN PETTRESS, doing business as Solar Hair and Scalp Co., New York, N. Y. Filed Aug. 18, 1945.

SOLAR

FOR HAIR GROWER, SCALP CREAM, AND HAIR DRESSING.
Claims use since June 16, 1945.

Ser. No. 487,496. AYERST, MCKENNA & HARRISON LIMITED, Montreal, Quebec, Canada. Filed Aug. 24, 1945.

CILLENTA

FOR ANTIBIOTICS FOR THE TREATMENT OF THE THROAT AND ORAL CAVITY.
Claims use since July 9, 1945.

Ser. No. 488,808. "42" PRODUCTS, LTD., doing business as Windsor House, Ltd., Los Angeles, Calif. Filed Sept. 21, 1945.

TOILETRIES IN GOLD

Applicant makes no claim to the word "Toiletries" apart from the mark, or to a container of any particular color. The color lining in the drawing denotes gold.
FOR COLOGNE, AFTER SHAVE POWDER, AND AFTER SHAVE LOTION.
Claims use since Aug. 28, 1945.

Ser. No. 489,060. ENDO PRODUCTS INC., New York, N. Y. Filed Sept. 27, 1945.

TRIOPHEN

FOR MEDICINAL PREPARATION USED FOR RHEUMATISM AND GOUT.
Claims use since 1938.

Ser. No. 489,306. WORTHINGTON PRODUCTS CO., INC., Arlington, Va. Filed Oct. 2, 1945.

"ATOMIC" INSECTICIDES

The words "Insecticides" and "Trade-Mark" are disclaimed apart from the mark.
FOR INSECTICIDES.
Claims use since Aug. 9, 1945.

Ser. No. 489,663. FALCON CHEMICAL CO., Pittsburgh, Pa. Filed Oct. 9, 1945.

PEKAL

FOR MEDICINAL PREPARATION FOR THE RELIEF OF GASTRIC HYPERACIDITY, COLITIS, AND KINDRED CONDITIONS.
Claims use since Mar. 1, 1940.

Ser. No. 489,753. PARFUM L'ORLE, INC., New York, N. Y. Filed Oct. 10, 1945.

doeskin

FOR PERFUMES AND TOILET WATERS.
Claims use since 1941.

Ser. No. 490,208. WILLIAM PETERMAN, INC., Newark, N. J. Filed Oct. 19, 1945. Under 10-year proviso as to the word "Peterman".

Peterman

Applicant is owner of Reg. No. 56,401, of Sept. 18, 1906, and Reg. No. 70,243, of Aug. 11, 1908 (both renewed), under 10-year proviso.
FOR INSECTICIDES.
Claims use since November 1886 on the word "Peterman" and since Sept. 12, 1945, on the mark presented.

Ser. No. 490,209. WILLIAM PETERMAN, INC., Newark, N. J. Filed Oct. 19, 1945. Under 10-year proviso as to the words "Peterman" and "Discovery".

Peterman DISCOVERY

Applicant is the owner of Reg. No. 56,401, of Sept. 18, 1906, and Reg. No. 70,243, of Aug. 11, 1908 (both renewed), under 10-year proviso.
FOR INSECTICIDES.
Claims use since January 1894 on words "Peterman" and "Discovery" and since Sept. 12, 1945, on the mark presented.

Ser. No. 490,701. J. B. ROERIG AND COMPANY, Chicago, Ill. Filed Oct. 29, 1945.

DARTHRONOL

FOR VITAMIN PREPARATION.
Claims use since Jan. 24, 1945.

Ser. No. 491,691. MORRIS WALDOW, doing business as Norton Products Company, Los Angeles, Calif. Filed Nov. 15, 1945.

FLASH-O

FOR FLUIDS FOR FILLING CIGAR AND CIGARETTE LIGHTERS.
Claims use since Dec. 24, 1934.

Ser. No. 492,890. AMOS R. BEAMON, doing business as Teknol Products Co., Los Angeles, Calif. Filed Dec. 8, 1945.

TEKNOL

FOR INSECTICIDES.
Claims use since June 15, 1939.

Ser. No. 493,315. HENRY H. BEISNER, New York, N. Y. Filed Dec. 15, 1945.

Terpichin

FOR ANAESTHETIC COMPOUND.
Claims use since Sept. 22, 1945.

Ser. No. 493,739. C. L. S. PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Dec. 22, 1945.

THY-A-CAL

FOR OINTMENT FOR THE RELIEF OF EXTERNAL SKIN CONDITIONS, I. E., ATHLETE'S FOOT, POISON IVY, RINGWORM OF THE BODY AND SCALP, IMPETIGO, AND OTHER RELATED CONDITIONS.
Claims use since Oct. 10, 1945.

Ser. No. 493,783. JOEL E. LANKFORD, Suffolk, Va. Filed Dec. 22, 1945.



The portrait and the name beneath are both those of the applicant.
FOR STOCK POWDERS USED FOR HORSES, CATTLE, AND HOGS, TO RELIEVE CONSTIPATION AND EXCESS ACID, REMOVE WORMS, AND PURIFY THE BLOOD.
Claims use since Aug. 22, 1945.

Ser. No. 495,100. CHARLES A. ROLLEY, doing business as Rolley Perfumes, San Francisco, Calif., assignor to Rolley, Inc.

FRANTIC

FOR PERFUMES, COLOGNES, PERFUMED POWDERS, AND HAND-SKIN CREAM-LOTIONS.
Claims use since Feb. 28, 1945.

Ser. No. 495,115. VITAL FOODS CORPORATION, Evanston, Ill. Filed Jan. 19, 1946.

Personnel

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN DEFICIENCY.
Claims use since Dec. 4, 1945.

Ser. No. 496,112. ROBERT S. STEWART, doing business as Western Distributing Company, Kansas City, Mo. Filed Feb. 6, 1946.

POS-SUR

FOR CHEMICAL LIQUID RUST, SCALE, AND GREASE REMOVER AND WELDER FOR RADIATORS, MOTORS, AND COOLING SYSTEMS.
Claims use since Aug. 1, 1945.

Ser. No. 496,572. RICHMOND-PHILLIPS, New York, N. Y. Filed Feb. 14, 1946.

Fleur de Barbezon

FOR TOILET WATERS, COLOGNES, PERFUMES, FACE AND BODY POWDERS, TALCUM POWDER; FACE, HAND AND BODY LOTIONS AND CREAMS; COLD CREAM, LIPSTICKS, EYEBROW PENCILS, AND ROUGE.
Claims use since Dec. 15, 1945.

Ser. No. 496,645. LENTHERIC, INCORPORATED, New York, N. Y. Filed Feb. 15, 1946.

MEN OF ACTION

Apart from the combination "Men of Action" the word "Men" is disclaimed.
FOR MEN'S TOILETRIES—NAMELY, AFTER-SHAVE LOTION, EAU DE COLOGNE. AND SCALP STIMULANT.
Claims use since Jan. 23, 1946.

Ser. No. 496,883. ALTYME PRODUCTS, INC., New York, N. Y. Filed Feb. 19, 1946.

Altyme

FOR HAIR LOTION AND HAIR TREATMENT SOLUTION FOR WAVING THE HAIR.
Claims use since Feb. 1, 1946.

Ser. No. 496,993. REINHOLD A. SMIDLER, doing business as The Energ-Ex Company, Chicago, Ill. Filed Feb. 20, 1946.

Energ-Ex

FOR TABLETS CONTAINING VITAMINS AND MINERALS.
Claims use since Jan. 10, 1946.

Ser. No. 497,029. LEADING LADY, doing business as Maier, Chicago, Ill. Filed Feb. 21, 1946.



FOR FACIAL CREAM.
Claims use since December 1944.

Ser. No. 497,061. ESTATE OF JAMES O. DAVIES, DECEASED, doing business as Baby Touch Hair Remover Company, St. Louis, Mo. Filed Feb. 23, 1946.

AIR-O-ZON

FOR SHAMPOOS.
Claims use since 1939.

Ser. No. 497,140. U. S. VITAMIN CORPORATION, New York, N. Y. Filed Feb. 23, 1946.

AMIPROL

FOR BRAND OF PROTEIN HYDROLYSATES PROVIDING AMINO-ACIDS AND POLYPEPTIDES DERIVED FROM PROTEINS OF ANIMAL AND VEGETABLE SOURCES, TO BE USED AS A PROTEIN SUPPLEMENT IN NUTRITION AND FOR THERAPEUTIC USE IN INCREASING THE AMINO ACID INTAKE.
Claims use since Jan. 29, 1946.

Ser. No. 497,149. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Feb. 23, 1946.

VEEGUM

FOR MAGNESIUM ALUMINUM SILICATE GEL FOR COSMETIC AND INDUSTRIAL USE.
Claims use since Nov. 9, 1942.

Ser. No. 497,424. E. R. SQUIBB & SONS, New York, N. Y. Filed Feb. 28, 1946.

AMBOSERUM

FOR ANTISERA.
Claims use since June 16, 1944.

Ser. No. 497,689. ALLIED LABORATORIES, INC., doing business as Pitman-Moore Co., Indianapolis, Ind. Filed Mar. 6, 1946.

DI-SULFALAC

FOR PARENTERAL SOLUTION OF SULFONAMIDES.
Claims use since Feb. 20, 1945.

Ser. No. 498,168. PARK & TILFORD, New York, N. Y. Filed Mar. 13, 1946.

VOLCANIC RED

No claim is made to the word "Red" apart from the mark.
FOR ROUGES AND LIPSTICKS.
Claims use since Feb. 12, 1946.

Ser. No. 498,178. J. A. STANLEY, doing business as Stanley Industries, Seattle, Wash. Filed Mar. 13, 1946.



The representation of the trapper is fanciful.
FOR POWDERS FOR KILLING FLEAS, LICE, AND TICKS; POISONS FOR KILLING RODENTS, INSECTICIDES, AND A COMBINED INSECTICIDE AND SULPHUR DUST.
Claims use since Jan. 1, 1941.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 490,017. E. E. EDWARD, LTD., New York, N. Y. Filed Oct. 16, 1945.

TOWN HALL

Applicant disclaims the representations of the pipes and the tobacco pouch. The drawing is lined for shading only.
FOR ASH RECEIVERS, HUMIDORS FOR CONSERVING CIGARS AND CIGARETTES, CIGAR AND CIGARETTE CASES, AND HOLDERS, TOBACCO POUCHES, CIGARETTE PAPER CUT TO SIZE, PIPES AND PIPE PARTS, AND PIPE RACKS.
Claims use since Oct. 2, 1941.

Ser. No. 494,081. LANE TOBACCO, LTD., New York, N. Y. Filed Dec. 29, 1945.

CHAMPION

FOR PIPES.
Claims use since Sept. 15, 1945.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 487,608. WILLIAM J. ENGELKE, Fort Worth, Tex. Filed Aug. 27, 1945.

YANK Grenade

The drawing is lined to indicate the colors red and blue. The word "Grenade" is disclaimed apart from the mark.
FOR PRACTICE HAND GRENADES.
Claims use since Oct. 1, 1943.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 494,612. E. J. KELLY COMPANY, Kalamazoo, Mich. Filed Jan. 11, 1946.

hydry

FOR PRINTING INKS.
Claims use since Aug. 15, 1939.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 469,313. GEORGE A. STONE, doing business as Tubular Weaving Company, Columbus, Ohio. Filed Apr. 13, 1944.

GLASDOWN

FOR FIBROUS GLASS INSULATING MATERIALS COMPRISING HEAT AND SOUND INSULATION IN THE FORM OF FLEXIBLE SHEETS FORMED OF FIBROUS GLASS.
Claims use since Jan. 15, 1944.

Ser. No. 493,828. THE RICHKRAFT COMPANY, Chicago, Ill. Filed Dec. 22, 1945.

Richkraft
Plasticized Duplex

The words "Plasticized" and "Duplex" are disclaimed apart from the mark.
FOR BUILDING PAPER.
Claims use since Oct. 1, 1945.

Ser. No. 493,829. THE RICHKRAFT COMPANY, Chicago, Ill. Filed Dec. 22, 1945.

Richkraft
SKULPRUF HEAVY DUTY

The words "Skulpruf", "Heavy", and "Duty", are disclaimed apart from the mark.
FOR BUILDING PAPER.
Claims use since Jan. 3, 1944.

Ser. No. 493,943. ARMSTRONG CORK COMPANY, Manheim Township, Pa. Filed Dec. 28, 1945.

LK

FOR CORKBOARD INSULATION.
Claims use since February 1931.

Ser. No. 494,266. HAROLD L. FINCH, doing business as Finch Acoustical Materials Company, Davenport, Iowa. Filed Jan. 4, 1946.

FAMCO

FOR METALLIC CLIP-SPLINES USED IN CEILING AND WALL CONSTRUCTION.
Claims use since Oct. 5, 1945.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 469,409. MADSEN IRON WORKS, Huntington Park, Calif. Filed Apr. 17, 1944.

Royal Crown

FOR SELF-ALIGNING PUMP VALVES AND PARTS THEREOF—NAMELY, CAGE, VALVE, AND SEAT, GENERALLY USED IN POWER DRIVEN PUMPS.
Claims use since February 1944.

Ser. No. 493,479. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Dec. 18, 1945.

"SPRING-FLO"

No claim is made to the word "Flo" apart from the remainder of the mark.
FOR WATER AERATORS FOR ATTACHMENT TO FAUCETS AND OTHER WATER OUTLETS.
Claims use since Nov. 16, 1945.

Ser. No. 494,763. TRAVIS O. SMITH, Kansas City, Mo. Filed Jan. 14, 1946.

KITCHEN KADET

The term "Kitchen" is disclaimed apart from the mark.
FOR STANDS AND BRACKETS FOR SUPPORTING BAGS TO RECEIVE WASTE MATERIALS.
Claims use since Oct. 10, 1945.

Ser. No. 496,109. A. L. SIEGEL CO., INC., New York, N. Y. Filed Feb. 6, 1946.

Vita-Guard

FOR BATHROOM ACCESSORIES MADE OF PLASTIC FILM—NAMELY, SHOWER-BATH CURTAINS AND BATHROOM WINDOW CURTAINS.
Claims use since Jan. 4, 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 489,425. C. W. TORNGREN CO., Somerville, Mass. Filed Oct. 4, 1945.

Mecatorn

FOR SEMI-FABRICATED SHEET METAL IN THE FORM OF DISHED OR BOWLED SPUN METAL PRODUCTS USEFUL IN THE MANUFACTURE OF REFLECTOR, DEFLECTOR, HOUSING, RECEPTACLE, OR CONTAINER UNITS.
Claims use since Sept. 11, 1945.

CLASS 15

OILS AND GREASES

Ser. No. 487,521. WILLIAM W. PERKINS, doing business as Industrial Products Company, Wakefield, Mass. Filed Aug. 24, 1945.

IPCO

FOR GRAPHITE WADS SOLD IN RIBBON FORM FOR REDUCING EROSION, CORROSION, AND LEAD FOULING IN GUN BARRELS AND GRAPHITE BULLET LUBRICANT FOR REDUCING LEAD FOULING IN GUN BARRELS.
Claims use since 1900.

Ser. No. 494,372. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 5, 1946.

DELNUS

FOR LUBRICATING OILS.
Claims use since Nov. 12, 1945.

Ser. No. 494,373. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 5, 1946.

DYNALUBE

Applicant is the owner of Reg. No. 410,457.
FOR LUBRICATING OILS.
Claims use since Nov. 12, 1945.

Ser. No. 494,374. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 5, 1946.

DYNASUN

Applicant is the owner of Reg. No. 410,457.
FOR LUBRICATING OILS.
Claims use since Nov. 12, 1945.

Ser. No. 494,375. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 5, 1946.

DYNAVIS

Applicant is the owner of Reg. No. 410,457.
FOR LUBRICATING OIL.
Claims use since Sept. 19, 1945.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 478,522. THE SMITH-ALSOP PAINT AND VARNISH COMPANY, Terre Haute, Ind. Filed Jan. 11, 1945.

HI-GRADE SMITH-ALSOP PAINT AND VARNISH PRODUCTS

AERO-LIFT REMOVER

No claim is made to the words "Smith-Alsop", "Remover" and "Hi-Grade Paint and Varnish Products" apart from the mark.

FOR PAINT AND VARNISH REMOVER.

Claims use since Oct. 5, 1937.

Ser. No. 487,987. THE ALLEN CORPORATION, Detroit, Mich. Filed Sept. 5, 1945.

allenite

FOR CORROSION RESISTANT COATING, IN THE NATURE OF A PAINT.

Claims use since Jan. 12, 1945.

Ser. No. 489,906. FEDERAL ELECTRIC COMPANY, INC., OF TEXAS, Chicago, Ill. Filed Oct. 13, 1945.

Fedelco

FOR LIQUID PLASTIC SURFACING MATERIAL IN THE NATURE OF A LIQUID PLASTIC COATING FOR USE AS A PROTECTIVE COVERING AND AS A RESISTOR TO CORROSION WHICH MAY BE APPLIED BY BRUSHING OR SPRAYING.

Claims use since July 10, 1945.

Ser. No. 492,819. ANDREW BROWN COMPANY, Los Angeles, Calif. Filed Dec. 7, 1945.

SYNCRO-GREEN

No claim is made to the word "Green" apart from the mark.

FOR METAL PAINT PRIMER.

Claims use since Oct. 2, 1945.

Ser. No. 494,049. HERBERT D. FINE, doing business as Plasti-Kote Company, Cleveland, Ohio. Filed Dec. 29, 1945.

Plasti-Kote

The word "Kote" is disclaimed apart from the mark.

FOR PAINT IN READY-MIXED FORM.

Claims use since Dec. 5, 1945.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 479,147. ROYAL TOBACCO CORPORATION, New York, N. Y. Filed Jan. 29, 1945.

LION

FOR CIGARETTES.

Claims use since Dec. 15, 1944.

CLASS 19

VEHICLES

Ser. No. 460,639. NATHANIEL B. WALES, JR., New York, N. Y. Filed May 14, 1943.

HELICAR

FOR CO-AXIAL CONTRA-ROTATING, AIRCRAFT INCORPORATING A CYCLIC PHASE CONTROL METHOD AND TO INCLUDE ROAD-TRAVELLING HELICOPTERS.

Claims use since Mar. 1, 1943.

Ser. No. 464,182. PAUL M. RESSINGER, doing business as Juvenile Health Products, Chicago, Ill. Filed Oct. 15, 1943.

KIDDIGIG

FOR GOCARTS.

Claims use since Aug. 12, 1943.

Ser. No. 470,406. THOMAS CARMICHAEL, doing business as Plycraft Products Mfg. Co., Centralia, Wash. Filed May 19, 1944.

Plycraft

FOR WHEELBARROWS, CARTS, AND WAGONS FOR HAND PROPULSION.

Claims use since July 25, 1943, on wheelbarrows; since Feb. 20, 1944, on carts; and since Oct. 15, 1943, on wagons.

Ser. No. 488,422. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed Sept. 13, 1945. Under the act of February 20, 1905, as amended June 10, 1938.

Hearthstone

FOR WHEEL BARROWS, BABY CARRIAGES AND BICYCLES.

Claims use since Feb. 13, 1945.

Ser. No. 490,318. PAUL E. LYON, Seattle, Wash. Filed Oct. 22, 1945.

MARKETOT

FOR CHILD'S GO-CART.

Claims use since Sept. 28, 1945.

Ser. No. 491,748. ROBIE GLENN ASHBURN, doing business as Granite Trailer Mfg. Co., Mount Airy, N. C. Filed Nov. 17, 1945.

GRANITE

FOR TRAILERS.

Claims use since Mar. 1, 1942.

Ser. No. 495,208. WARREN MCARTHUR CORPORATION, Bantam, Conn. Filed Jan. 22, 1946.

SEATS FOR THE MIGHTY

The word "Seats" is disclaimed apart from the mark.

FOR SEATS FOR USE IN AIRCRAFT AND RAILROAD CARS.

Claims use since June 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 471,266. THE MASTER ELECTRIC COMPANY, Dayton, Ohio. Filed June 15, 1944.

MASTER

The mark consists of the word "Master" and design.

FOR ELECTRIC MOTORS AND PARTS THEREOF AND ELECTRIC GENERATORS AND PARTS THEREOF.

Claims use since May 1, 1920, on electric motors, and since July 1, 1925, on electric generators.

Ser. No. 471,762. A. O. SMITH CORPORATION, Milwaukee, Wis. Filed June 28, 1944.

A.O. SMITH Smith way

No claim is made to the name "Smith" except when used in association with other features of the mark.

FOR ELECTRIC WELDING APPARATUS—NAMELY, ELECTRIC ARC WELDING HEADS, AND ARC WELDERS; UNITARY ELECTRIC PUMPS AND PARTS THEREOF, AND ELECTRIC WATER HEATERS AND PARTS THEREOF.

Claims use since Jan. 6, 1941.

Ser. No. 479,850. THE LAMB ELECTRIC COMPANY, Kent, Ohio. Filed Feb. 15, 1945.

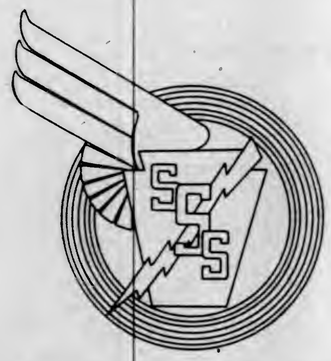


The lining used in the drawing indicataes dark red color.

FOR FRACTIONAL HORSE POWER ELECTRICAL MOTORS.

Claims use since Jan. 9, 1945.

Ser. No. 483,206. EDWARD A. BRASS, doing business as Southern Switch & Signal Company, Shreveport, La. Filed May 11, 1945.



FOR TRAFFIC SIGNAL LIGHTS AND ELECTRIC CONTROLLERS THEREFOR, MUNICIPAL ELECTRICALLY OPERATED FIRE ALARM BOXES AND ELECTRICAL SWITCHBOARDS.

Claims use since Mar. 1, 1940.

Ser. No. 483,306. HANS D. ISENBERG, doing business as Dielectric Materials Company, Chicago, Ill. Filed May 14, 1945.

SYSTOLITE

FOR ELECTRICAL INSULATING MATERIALS OF THE TYPE FOR PREVENTING ELECTRIC CURRENT CONDUCTION AND SOLD IN THE FORM OF SHEETS AND THE LIKE.

Claims use since July 17, 1939.

Ser. No. 485,887. RUSSELL & STOLL COMPANY, INC., New York, N. Y. Filed July 16, 1945.

UNILARM

FOR ELECTRICAL SUPERVISORY ALARM SIGNALLING APPARATUS, COMPRISING ASSEMBLIES OF PILOT LIGHTS, TERMINAL BLOCKS, RELAYS, SWITCHES, CIRCUIT BREAKERS, FLASHING DEVICES, GONGS, BELLS, HOWLERS, WIRING DEVICES, CONNECTORS, AND PARTS THEREOF.

Claims use since May 16, 1945.

Ser. No. 487,016. THERMO ELECTRIC MANUFACTURING CO., Dubuque, Iowa. Filed Aug. 10, 1945.

TEMCOTROL

FOR ELECTRIC INTERVAL TIMING SWITCHES FOR CONTROLLING CURRENT INPUT OF ELECTRIC FURNACES OR OVENS.

Claims use since Jan. 9, 1945.

Ser. No. 487,218. THE TANGLEFOOT COMPANY, Grand Rapids, Mich. Filed Aug. 17, 1945.

DIFUSOLIER

FOR ELECTRICALLY HEATED ATOMIZER FOR SPRAYING LIQUIDS.

Claims use since Aug. 3, 1945.

Ser. No. 487,342. RICHARD H. TURK, doing business as International Electric Fence Co., Chicago, Ill. Filed Aug. 20, 1945.

International

FOR ELECTRIC FENCES.

Claims use since Jan. 1, 1938.

Ser. No. 487,422. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Aug. 22, 1945.

KUMBAK

FOR EXTENSIBLE ELECTRICAL CORDS.

Claims use since July 31, 1945.

Ser. No. 488,733. JOHN D. BENFIELD, Detroit, Mich. Filed Sept. 20, 1945.

TRICKY-HICKEY

Applicant disclaims the word "Hickey" apart from the mark.

FOR ELECTRICAL CONNECTORS.

Claims use since Apr. 4, 1944.

Ser. No. 490,398. RED DEVIL TOOLS, Irvington, N. J. Filed Oct. 23, 1945.



FOR ELECTRIC FENCERS, ELECTRIC PAINT CONDITIONERS FOR SHAKING CANS OF PAINT, ELECTRIC PAINT MIXERS, ELECTRIC FLOOR SANDERS, AND ELECTRIC FLOOR EDGERS.

Claims use since September 1938 on electric fencers, paint conditioners and paint mixers; and since October 1939 on electric floor sanders and floor edgers.

Ser. No. 490,709. SHUR-ANTENNA-MOUNT, INC., Sea Cliff, N. Y. Filed Oct. 29, 1945.

INTERCEPTOR

FOR TRANSMITTING AND RECEIVING RADIO ANTENNAS—NAMELY, TELEVISION, FREQUENCY MODULATION AND AMATEUR HIGH FREQUENCY ANTENNAS.

Claims use since Sept. 4, 1945.

Ser. No. 492,125. AVIOLA RADIO CORPORATION, Glendale, Calif. Filed Nov. 24, 1945.

Aviola

FOR RADIO RECEIVING SETS, ELECTRIC RECORD PLAYERS WITH AMPLIFIER, RADIO MANUAL PHONOGRAPH COMBINATION, RADIO PHONOGRAPH COMBINATION WITH AUTOMATIC RECORD CHANGER AND ELECTRIC AUTOMATIC RECORD CHANGERS.

Claims use since July 1943.

Ser. No. 492,354. MAX BLACK, doing business as M. Black Manufacturing Company, Philadelphia, Pa. Filed Nov. 29, 1945.

FLUO-BRITE

Applicant disclaims the word "Brite" apart from the mark.

FOR PHOTOGRAPHIC LIGHTING EQUIPMENT—NAMELY, PHOTOFLOOD AND PHOTOFLASH LAMP SOCKET AND REFLECTOR ASSEMBLIES, REFLECTORS AND REFLECTOR CLAMPS.

Claims use since January 1940.

Ser. No. 492,879. YANKEE METAL PRODUCTS CORP., Norwalk, Conn. Filed Dec. 7, 1945.

Tract-O-Lite

No claim is made to the word "Lite" apart from the association shown.

FOR ELECTRIC LAMPS FOR VEHICLES.

Claims use since Nov. 20, 1945.

Ser. No. 493,879. WILLIAM W. BARR, doing business as Barr Electric Company, Dallas, Tex. Filed Dec. 26, 1945.

DALBAR

FOR ELECTRICAL EQUIPMENT AND APPLIANCES—NAMELY, RADIO RECEIVING SETS, PHONOGRAPHS, COMBINATION RADIO AND PHONOGRAPH, AND RECORD CHANGERS.

Claims use since Oct. 15, 1937.

Ser. No. 493,971. LEXINGTON MACHINERY & DEVELOPMENT CO., INC., Clifton, N. J. Filed Dec. 28, 1945.

Toast Queen

No claim is made to the word "Toast" apart from the mark.

FOR ELECTRIC TOASTERS.

Claims use since Nov. 5, 1945.

Ser. No. 494,653. CAVENDISH TRADING CORP., New York, N. Y. Filed Jan. 12, 1946.

AIRMIGHT

FOR RADIOS, AND RADIO AND PHONOGRAPH COMBINATIONS.

Claims use since Mar. 1, 1945.

Ser. No. 495,745. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Jan. 31, 1946.

EXPANDEX

FOR EXTENSIBLE ELECTRICAL CORDS.

Claims use since Dec. 6, 1945.

Ser. No. 495,746. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Jan. 31, 1946.

RECOILO

FOR EXTENSIBLE ELECTRICAL CORDS.
Claims use since Dec. 13, 1945.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 481,111. INTERNATIONAL MODEL AIRCRAFT LIMITED, Merton, London, England. Filed Mar. 20, 1945.

PENGUIN

FOR TOY MODEL AIRCRAFT
Claims use since December 1936.

Ser. No. 491,180. TOY TOWN CORPORATION, New York, N. Y. Filed Nov. 6, 1945.

SQUEALIE

FOR PLASTIC TOY BANKS.
Claims use since Feb. 12, 1942.

Ser. No. 498,017. SIDNEY MEYERSON, doing business as United Plastic Mfg. Co., New York, N. Y. Filed Mar. 11, 1946.

Pork Chops

FOR TOY PLASTIC COIN BANKS.
Claims use since Mar. 7, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 453,597. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed June 11, 1942.

STEEL-FLEX

Exclusive right to the use of the word "Steel" is disclaimed apart from the mark as shown.
FOR SECTIONAL AIR BAGS FOR TIRE REPAIRING.
Claims use since Feb. 28, 1941.

Ser. No. 459,013. THE PERMUTIT COMPANY, New York, N. Y. Filed Mar. 10, 1943.

SPIRACTOR

FOR INDUSTRIAL AND/OR MUNICIPAL APPARATUS FOR CHEMICALLY PRECIPITATING DISSOLVED MATTER FROM LIQUIDS ONTO CHEMICAL NUCLEI CONTAINED IN A TANK.
Claims use since Aug. 4, 1941.

Ser. No. 474,107. C. J. BATES & SON, Chester, Conn. Filed Sept. 12, 1944.

Windmill

FOR HAND-OPERATED REELS FOR HOLDING SKEINS OF YARN FOR WINDING PURPOSES.
Claims use since July 1, 1944

Ser. No. 481,313. FRED BURG, doing business as Burg Tool Mfg. Co., Los Angeles, Calif. Filed Mar. 26, 1945.

Tool Flex

The use of the word "Tool" apart from the mark is disclaimed.
FOR HOLDERS FOR DRILLING, BORING, REAMING, AND TAPPING TOOLS.
Claims use since September 1944.

Ser. No. 481,791. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio, now by change of name The Jeffrey Company, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio. Filed Apr. 6, 1945.

FLEXROLL

FOR CRUSHERS—NAMELY, MINERAL AND COAL CRUSHERS.
Claims use since Feb. 23, 1942.

Ser. No. 482,431. MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Apr. 21, 1945.

ZENITH

FOR WATER SYSTEMS, EACH SYSTEM COMPRISING A MOTOR, A PUMP, AND A PRESSURE TANK, FOR DOMESTIC USE IN CONNECTION WITH SHALLOW WELLS OR OTHERWISE LOW-PRESSURE WATER SUPPLIES, AND SOLD AS A UNIT.
Claims use since May 24, 1940.

Ser. No. 484,300. KEARFOTT ENGINEERING CO., New York, N. Y. Filed June 8, 1945.

HERMEFLEX

FOR ROTARY MOTION TRANSMITTING APPARATUS OF THE TYPE WHICH COMPRISES A BELLOWS WITH A SEALED HEAD AT ONE END AND A NUTATING CRANK FIXEDLY SECURED TO THE HEAD AND EXTENDING IN OPPOSITE DIRECTIONS THEREFROM.
Claims use since May 11, 1945.

Ser. No. 488,130. THOMPSON PRODUCTS, INC., Cleveland, Ohio. Filed Sept. 7, 1945.

RotoValve ©

No rights are claimed for the word "Valve" apart from the mark.
FOR ENGINE VALVES, AND/OR VALVE ROTATING ASSEMBLIES CONSISTING OF POPPET VALVES, SPRING RETAINERS AND TAPPET CONTACT BUTTONS.
Claims use since January 1940.

Ser. No. 488,288. STOKES BROS. MANUFACTURING CO., Freehold, N. J. Filed Sept. 11, 1945.



The drawing is stippled merely for shading effect. The representation of the figure shown is fanciful.
FOR RASPS AND FILES.
Claims use since Oct. 1, 1887.

Ser. No. 488,401. FRAM CORPORATION, East Providence, R. I. Filed Sept. 13, 1945.

THE DIPSTICK TELLS THE STORY

FOR OIL FILTERS, PARTICULARLY FOR USE AS ATTACHMENTS FOR INTERNAL COMBUSTION ENGINES, AND PARTS FOR SAID FILTERS INCLUDING CARTRIDGES THEREFOR.
Claims use since September 1934.

Ser. No. 490,447. QUEEN CITY CUTLERY COMPANY, Titusville, Pa. Filed Oct. 24, 1945.



FOR PEN KNIVES, SHEARS, KITCHEN KNIVES, JACK KNIVES, HUNTING KNIVES, AND TABLE CUTLERY OF BASE METAL.
Claims use since Mar. 1, 1945.

Ser. No. 492,027. BABSON BROS. CO., Chicago, Ill. Filed Nov. 23, 1945.



The representation of the goods apart from the mark is disclaimed.
FOR MILKING EQUIPMENT—NAMELY, MILKING MACHINES, PUMPS, AND PARTS THEREOF.
Claims use since September 1944.

Ser. No. 492,405. EARL S. TUPPER, Farmumsville, Mass., assignor to Tupper Plastics, Inc. Filed Nov. 29, 1945.

Millionaire

FOR MOLDED PLASTIC COCKTAIL SPOONS, FORKS, SPEARS, AND MUDDLERS.
Claims use since Aug. 25, 1945.

Ser. No. 493,496. KNAPWAY DEVICES, INC., Kansas City, Mo. Filed Dec. 18, 1945.



FOR VENDING MACHINES.
Claims use since Dec. 3, 1945.

Ser. No. 493,843. STAMPING SERVICE, INC., Detroit, Mich. Filed Dec. 22, 1945.

LAZY DAISY

FOR UNITARY COMBINATION MECHANICAL BRUSH AND DUSTPAN.
Claims use since Nov. 15, 1945.

Ser. No. 493,957. HASCO VALVE AND MACHINE CO., Milwaukee, Wis. Filed Dec. 28, 1945.

HASCO

FOR PISTON TYPE FORCE PUMPS USED FOR PUMPING MOLTEN SULFUR AND SIMILAR PRODUCTS AND PARTS THEREOF.
Claims use since June 15, 1932.

Ser. No. 494,502. HAYDEN COMPANY, Kendallville, Ind. Filed Jan. 9, 1946.

HAYDEN
FLEXSWEEP

The word "Hayden" forming a part of the mark is disclaimed apart from the mark.
FOR LAWN RAKE.
Claims use since Nov. 1, 1945.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 484,387. BALCRANK INC., Cincinnati, Ohio. Filed June 9, 1945.

OILETTE

FOR LUBRICATION EQUIPMENT—NAMELY, PUMPS AND DISPENSERS FOR INJECTING MOTOR OIL INTO THE CRANKCASES OF MOTOR VEHICLES.
Claims use since Nov. 1, 1944.

Ser. No. 486,298. ELECTRONIC MECHANICAL PRODUCTS COMPANY, Atlantic City, N. J. Filed July 26, 1945.

Luxometer

FOR ELECTRONIC-MECHANICAL INSTRUMENT FOR THE INTEGRATION OF PRESELECTED QUANTITIES OF LIGHT AND RADIANT ENERGY AND FOR THE AUTOMATIC CONTROL OF TIME IN THE EXPOSURE TO EFFECT THE SELECTED QUANTITY CUMULATIVELY.
Claims use since June 20, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 488,373. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The drawing is fanciful.
FOR WRIST, POCKET, AND LAPEL WATCHES AND CLOCKS.
Claims use since Aug. 23, 1945.

Ser. No. 490,201. MIDO SOCIETE ANONYME, Bienne, Switzerland. Filed Oct. 19, 1945.

MULTI-CENTERCHRONO

FOR WATCHES, WATCH CASINGS, AND PARTS OF WATCHES.
Claims use since October 1940.

Ser. No. 493,575. THE UNITED STATES TIME CORPORATION, Waterbury, Conn. Filed Dec. 19, 1945.

DURACHRON

FOR WATCHES AND CLOCKS, BOTH CASED AND UNCASED, AND PARTS THEREFOR.
Claims use since Oct. 5, 1945.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 493,097. ERNEST H. AUGAT, Attleboro, Mass. Filed Dec. 12, 1945.

STRUT

FOR JEWELRY FINDINGS, AND JEWELRY MADE WHOLLY OR PARTLY OF PRECIOUS METAL—NAMELY, COLLAR BUTTONS, CUFF LINKS, COLLAR HOLDERS, TIE HOLDERS, MONEY CLIPS, PINS, BROOCHES, CLIPS, PENDANTS, BRACELETS, EARRINGS, NECKLACES, CIGARETTE CASES, AND COMPACTS.
Claims use since Dec. 3, 1945.

Ser. No. 493,892. H. C. MUSSELLS COMPANY, Oakland and Berkeley, Calif. Filed Dec. 26, 1945.

Mata Blue Eyes

FOR FINGER RINGS, EAR RINGS, PENDANTS, BRACELETS AND CHOKERS, ALL MADE OF OR DESIGNED TO SIMULATE PRECIOUS OR SEMI-PRECIOUS METAL.
Claims use since Aug. 22, 1945.

Ser. No. 495,500. EDWARD PRILL & SONS, New York, N. Y., assignor to Prill Silver Company, Inc., New York, N. Y., a corporation of New York. Filed Jan. 26, 1946.



FOR HOLLOW WARE, FLATWARE, AND SILVERWARE, MADE OF OR PLATED WITH PRECIOUS METAL.
Claims use since Dec. 31, 1938.

Ser. No. 496,336. CHARLES SCHAEFFER, doing business as Schaeffer's, Cleveland, Ohio. Filed Feb. 9, 1946.

SMOOTHEEZ

FOR WATCH BRACELETS.
Claims use since Jan. 15, 1946.

Ser. No. 496,710. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

A++OW

FOR DIAMONDS.
Claims use since October 1935.

Ser. No. 496,711. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

COW

FOR DIAMONDS.
Claims use since October 1935.

Ser. No. 496,713. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

A+OW

FOR DIAMONDS.
Claims use since October 1935.

Ser. No. 496,714. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

AOW

FOR DIAMONDS.
Claims use since October 1935.

Ser. No. 496,716. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

A+++OW

FOR DIAMONDS.
Claims use since October 1935.

Ser. No. 496,717. LAZARE KAPLAN & SONS, INC., New York, N. Y. Filed Feb. 16, 1946.

FBOW

FOR DIAMONDS.
Claims use since October 1935.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 495,513. ARTHUR A. SINGER, New York, N. Y. Filed Jan. 26, 1946.

DURALON

FOR HAIR BRUSHES.
Claims use since Sept. 4, 1944.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 487,564. NATIONAL TRADING COMPANY, INC., Hickory, N. C. Filed Aug. 25, 1945.

ATOMIC

FOR DEEP-FREEZE BOXES.
Claims use since Aug. 3, 1945.

Ser. No. 487,566. NATIONAL TRADING COMPANY, INC., Hickory, N. C. Filed Aug. 25, 1945.

ATOMIC

FOR ELECTRIC REFRIGERATORS.
Claims use since Aug. 3, 1945.

Ser. No. 489,839. WALLACE & TIERNAN CO., INC., Belleville, N. J. Filed Oct. 11, 1945.

MINI-FILTER

No claim is made to the word "Filter" nor to the goods represented in silhouette apart from the mark.
FOR COMBINED PORTABLE PUMP AND FILTER UNITS FOR PRODUCING DRINKING WATER.
Claims use since Sept. 1, 1945.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 490,306. HABITANT SHOPS, INC., Bay City, Mich. Filed Oct. 22, 1945.

Suncraft

FOR TRESTLE TABLES, CARD TABLES, CORNER TABLES, SIDE TABLES, REFECTORY TABLES, END TABLES, SOFAS, BENCHES, LOUNGES, CHAIRS, PLAIN AND UPHOLSTERED, BEDS, DAY BEDS, BED STANDS, LIVING ROOM STANDS, SEATS, FOOTSTOOLS, HATRACKS, DESKS, DRESSERS, HANGING SHELVES, MAGAZINE RACKS, SIDEBOARDS FOR DINING ROOMS, WALL CABINETS, CORNER CABINETS, BOOKCASE CABINETS, BAR CABINETS, AND CHESTS OF DRAWERS.
Claims use since 1926.

CLASS 33

GLASSWARE

Ser. No. 453,716. CORNING GLASS WORKS, Corning, N. Y. Filed June 17, 1942.

VYCOR

FOR GLASS CONTAINERS FOR HIGH TEMPERATURE INDUSTRIAL USE—NAMELY, GLASS TRAYS, FLASKS AND JARS; GLASS CYLINDERS, GLASS TUBING, FLAT GLASS, AND GLASS RODS.
Claims use since May 14, 1940.

Ser. No. 490,952. ROBERT L. LE MAY, Omaha, Nebr. Filed Nov. 2, 1945.

PALETTE ART

Applicant disclaims the word "Art" apart from the mark.
FOR HAND PAINTED TABLE GLASSWARE INCLUDING GOBLETS, DRINKING GLASSES, PITCHERS, VASES, SAUCERS, CUPS, AND PLATES.
Claims use since May 15, 1945.

Ser. No. 492,434. THE GAILSTYN COMPANY, New York, N. Y. Filed Nov. 30, 1945.

It's a Dilly

FOR GLASS PERFUME BOTTLES, TABLE GLASSWARE, GLASS BEVERAGE SETS, GLASS DECANTER SETS, GLASS SUGAR BOWLS, GLASS CREAMERS, GLASS PEPPER AND SALT SHAKERS, GLASS DRESSER SETS, GLASS COCKTAIL AND LIQUOR SETS, GLASS TRAYS, GLASS POWDER JARS, GLASS OVENWARE, GLASS COASTERS, GLASS RELISH DISHES, GLASS CANDY DISHES, GLASS MARMALADE JARS, GLASS FLOWER VASES, GLASS BUD VASES, GLASS FRUIT BOWLS, GLASS CONSOLE SETS.
Claims use since Sept. 15, 1945.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 493,996. AMERICAN BRAKE SHOE COMPANY, New York, N. Y., and St. Louis, Mo. Filed Dec. 29, 1945.

NBM

FOR TUYÈRES AND BLAST FURNACE PARTS—NAMELY, MONKEYS AND BOSH PLATES.
Claims use since October 1943.

Ser. No. 496,001. THE VENDO COMPANY, Kansas City, Mo. Filed Feb. 4, 1946.

STEAM-ZONE

The word "Steam" is disclaimed apart from the mark.
FOR COOK STOVES EMPLOYING GAS OR ELECTRICITY AS HEATING MEDIA AND STERILIZING CABINETS FOR KITCHEN USE.
Claims use since Jan. 14, 1946.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 486,796. MANOR RECORD CO., Newark, N. J. Filed Aug. 6, 1945.

Manor

FOR PHONOGRAPH GROOVED RECORDS.
Claims use since Jan. 2, 1945.

CLASS 37

PAPER AND STATIONERY

Ser. No. 482,923. CULLOM & GHERTNER COMPANY, Nashville, Tenn. Filed May 3, 1945.

Snap-i-Sets

The word "Sets" is disclaimed apart from the mark.
FOR SETS OF BLANK FORMS FOR RECORD SHEETS INTERLEAVED WITH CARBON PAPER ALL FASTENED TOGETHER AT ONE OR MORE MARGINS.
Claims use since Apr. 10, 1945.

Ser. No. 492,633. LACHMAN-NOVASEL PAPER CO., New York, N. Y. Filed Dec. 4, 1945.

IANOVA
BOX AND SPECIALTY
Papers

The lining shown on the drawing represents shading only. The words "Box" and "Specialty Papers" are disclaimed except in connection with the mark.
FOR BOX AND SPECIALTY PAPERS.
Claims use since Nov. 1, 1945.

Ser. No. 493,355. HOOVEN LETTERS INCORPORATED, New York, N. Y. Filed Dec. 15, 1945.

NAHMCO

FOR WRITING PAPER AND LETTERHEADS FOR TYPEWRITTEN CORRESPONDENCE, ENVELOPES, AND BLOTTERS.
Claims use since May 16, 1936.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 489,308. AMERICAN INTERNATIONAL PUBLICATIONS, INC., New York, N. Y. Filed Oct. 3, 1945.

NORTE

FOR PERIODICAL.
Claims use since October 1940.

Ser. No. 491,862. PIED PIPER BOOKS INC., New York, N. Y. Filed Nov. 9, 1945.



PIED
PIPER

FOR CHILDREN'S BOOKS PUBLISHED IN A SERIES.
Claims use since Aug. 8, 1945.

Ser. No. 491,959. BABY POST INCORPORATED, New York, N. Y. Filed Nov. 21, 1945.

Baby Post

The word "Baby" is disclaimed apart from the mark.
FOR PERIODICAL ABOUT BABIES AND FOR EXPECTANT MOTHERS.
Claims use since March 1945.

Ser. No. 492,835. HALLADAY-THOMAS-PUBLISHERS, Union City, N. J. Filed Dec. 7, 1945.

AFoundArt Productions

Applicant disclaims the words "Art Productions" apart from the mark.
REPRODUCTIONS OF OIL PAINTINGS.
Claims use since Nov. 2, 1945.

Ser. No. 494,047. FEDERAL POSTAL EMPLOYEES ASSOCIATION, Denver, Colo. Filed Dec. 29, 1945.

PEN

FOR PERIODICAL PUBLICATION.
Claims use since Aug. 9, 1945.

CLASS 39

CLOTHING

Ser. No. 474,700. THE MAXWELL COMPANY, Atlanta, Ga. Filed Sept. 28, 1944.

Mallard

FOR MEN'S, BOYS', AND JUVENILE SPORTSWEAR—NAMELY, SLACK SUITS, SEPARATE SLACKS, SEPARATE SHIRTS, AND SHORTS.
Claims use since Feb. 18, 1943.

Ser. No. 484,570. HOLLYVOGUE TIES, Los Angeles, Calif. Filed June 15, 1945.

A California Original

HOLLYVOGUE

FOR NECKTIES.
The right to the use of the words "A California Original" is disclaimed apart from the mark.
Claims use since January 1945.

Ser. No. 489,015. RUEDA & Co., Buenos Aires, Argentina. Filed Sept. 26, 1945.

Virtus

The mark consists merely in the word "Virtus" which may be translated "Courage".
FOR GARMENTS FOR LADIES, MISSES AND CHILDREN—NAMELY, CORSET COVERS, NIGHTSHIRTS, NIGHTGOWNS, SLIPS, PYJAMAS, BRASSIÈRES, GIRDLES, PETTICOATS, DRAWERS, CORSETS, UNDERSHIRTS, PANTIES, STEP-INS, BLOOMERS, AND SHORTS.
Claims use since May 1936.

Ser. No. 490,227. JOE BONOMO, doing business as Bra-Zooms Company, New York, N. Y. Filed Oct. 20, 1945.

BRA-ZOOMS

The word "Bra" is disclaimed apart from the mark.
FOR BRASSIÈRES.
Claims use since Sept. 4, 1945.

Ser. No. 491,495. THE NATIONAL GLOVE COMPANY, Columbus, Ohio. Filed Nov. 13, 1945.

GOLD STRIPE LINE

The drawing is lined for the color gold. The applicant disclaims the right to the use of the word "Line" except in the relation and association shown.
FOR LEATHER, COTTON, AND LEATHER AND COTTON WORK GLOVES.
Claims use since May 17, 1924.

Ser. No. 492,096. ROTHSHIRE COATS, New York, N. Y. Filed Nov. 23, 1945.

Rainshire

FOR COATS FOR OUTER WEAR FOR WOMEN AND GIRLS.
Claims use since Nov. 1, 1945.

Ser. No. 492,536. ACE NOVELTY KLOTHES, INC., New York, N. Y. Filed Dec. 3, 1945.

JOD-FOR-ALL

The right to the term "Jod-For" apart from the mark is disclaimed.
FOR CHILDREN'S PLAY SUITS AND TROUSERS.
Claims use since Nov. 23, 1945.

Ser. No. 492,793. MURRAY M. ROSENBERG, INC., New York, N. Y., now by change of name Miles Shoes Incorporated, a corporation of New York. Filed Dec. 6, 1945.

GROPALS

FOR SHOES, SLIPPERS, AND BOOTS OF LEATHER, FABRIC, AND COMBINATIONS THEREOF; SPATS; SHOE FINDINGS—NAMELY, HEELS, INNER AND OUTER SOLES, UPPERS, TONGUES AND TOE-CAPS; AND HOSIERY.
Claims use since Oct. 21, 1945.

Ser. No. 494,392. COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Jan. 7, 1946.

Gort & McLeod

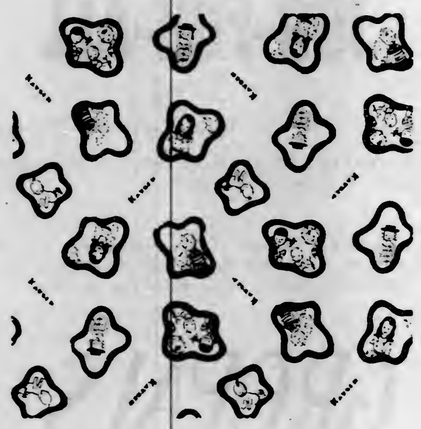
The word "Gort" is disclaimed apart from the mark.
FOR MEN'S, BOYS', AND CHILDREN'S OUTER GARMENTS, CONSISTING OF COATS, VESTS, PANTS AND TROUSERS; ALSO MEN'S OVERCOATS AND TOPCOATS; ALSO WOMEN'S OVERCOATS, TOPCOATS, AND SUITS, CONSISTING OF OUTER COAT, ENSEMBLE, VEST, AND SKIRT.
Claims use since Dec. 1, 1945.

Ser. No. 494,414. TITAN SAFETY SHOE CO., Spencer, Mass. Filed Jan. 7, 1946.

ALIV

FOR LEATHER AND RUBBER SHOES MADE FROM VARIOUS COMBINATIONS OF LEATHER AND RUBBER.
Claims use since Nov. 14, 1945.

Ser. No. 495,391. JULIUS KAYSER & Co., New York, N. Y. Filed Jan. 25, 1946. Under 10-year proviso as to "Kayser".



The pictures of the children are fanciful.

FOR INFANTS' AND CHILDREN'S UNDERWEAR.

Claims use since 1886 as to "Kayser" on silk knit underwear, and the composite mark since July 23, 1945, on infants' and children's underwear.

Ser. No. 495,477. INFANTA KNITTING MILLS, Philadelphia, Pa. Filed Jan. 26, 1946.

Young-Stars

Applicant disclaims the word "Young" standing alone and apart from the mark.

FOR CHILDREN'S KNITTED SWEATERS AND JACKETS.

Claims use since Dec. 15, 1945.

Ser. No. 495,766. SHIRTS, INC., New York, N. Y. Filed Jan. 31, 1946.

Tarry Time

FOR MEN'S OUTER SHIRTS.

Claims use since Dec. 31, 1945.

Ser. No. 495,894. LEONORA SILK UNDERWEAR CO., New York, N. Y. Filed Feb. 2, 1946.

MISS Leonora Gown of the Month

Applicant disclaims the words "Miss" and "Gown of the month" separately from the mark.

FOR SILK SLEEPING GOWNS AND SLIPS.

Claims use since Oct. 20, 1939.

Ser. No. 496,067. IRVING BERRY, New York, N. Y. Filed Feb. 6, 1946.

Diane Carole

FOR POLO SHIRTS AND SWEATERS.

Claims use since Aug. 1, 1945.

Ser. No. 496,276. LEO ROSENDORFF, doing business as Lero Textile Company, New York, N. Y. Filed Feb. 8, 1946.

Lady Lero

FOR WOMEN'S AND MISSES' SLIPS, NIGHTGOWNS, PAJAMAS, PANTIES, BRASSIÈRES, VESTS, SWEATERS, HOSIERY, AND ROBES.

Claims use since Jan. 15, 1946.

Ser. No. 496,322. MINTZ & SCHWAM, New York, N. Y. Filed Feb. 9, 1946.

Shaferizing

FOR MINK COATS.

Claims use since Nov. 20, 1945.

Ser. No. 497,050. SOLOMON BROS. CO., New York, N. Y. Filed Feb. 21, 1946.

SOLSONS

FOR MEN'S AND WOMEN'S SPORT JACKETS AND SHIRTS.

Claims use since Jan. 2, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 488,375. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The drawing is fanciful.

FOR BOBBY PINS, HAIRPINS, SACHET BAGS, COMBS, RIBBONS IN CUT LENGTHS, INCLUDING WRIST WATCH RIBBONS AND SHOULDER STRAP RIBBONS, RIBBON BOWS, GARMENT ORNAMENTS, ORNAMENTAL GARMENT CLIPS, HAIR CLIPS, GARMENT BUCKLES AND BUTTONS MADE OF NON-PRECIOUS METALS AND PLASTICS.

Claims use since Aug. 23, 1945.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 498,066. LABRÉ LABORATORIES, Denver, Colo. Filed Mar. 12, 1946.

SIMPLEX

FOR VAGINAL DIAPHRAGM INSERTERS.

Claims use since Apr. 1, 1945.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 494,433. EL PARAISO DE PURUA, FUENTES TERMALES, S. A., Mexico City, Mexico. Filed Jan. 8, 1946.

PURUA

FOR MINERAL WATER AND NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.

Claims use since Jan. 4, 1945.

Ser. No. 494,436. EL PARAISO DE PURUA, FUENTES TERMALES, S. A., Mexico City, Mexico. Filed Jan. 8, 1946.

BALNEARIO SAN·JOSE·DE·PURUA

The words "Balneario" and "San Jose" are disclaimed apart from the mark.

FOR MINERAL WATER AND CARBONATED BEVERAGES IN THE NATURE OF SOFT DRINKS.

Claims use since Jan. 4, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 481,912. RODNEY MILLING COMPANY, doing business as The Lindsborg Milling and Elevator Co., Lindsborg, Kans. Filed Apr. 9, 1945.



FOR WHEAT FLOUR.

Claims use since Apr. 12, 1905.

Ser. No. 483,177. THE GRAND UNION COMPANY, New York, N. Y. Filed May 10, 1945.

KITCHEN GARDEN

FOR SALAD DRESSING, FRENCH DRESSING, AND CANNED FRUITS—NAMELY, BLACKBERRIES, GRAPEFRUIT, AND ORANGES, PEACHES, PEARS, AND PINEAPPLE.

Claims use since 1933 on salad dressing; since 1938 on canned fruits; and since 1943 on French dressing.

Ser. No. 483,694. OPPENHEIM & MCEWAN CO., INC., Albany, N. Y. Filed May 23, 1945.

Walgus

FOR CANNED VEGETABLES AND TOMATO CATCH-UP.
Claims use since 1913.

Ser. No. 484,007. BATON ROUGE RICE MILL, INC., Baton Rouge, La. Filed May 31, 1945.

DELTA GIRL

Applicant is the owner of Reg. No. 348,238.
FOR RICE.
Claims use since Nov. 30, 1938.

Ser. No. 484,008. BATON ROUGE RICE MILL, INC., Baton Rouge, La. Filed May 31, 1945.

Delta King

Applicant is the owner of Reg. No. 348,238.
FOR RICE.
Claims use since Oct. 29, 1937.

Ser. No. 484,774. GERALD C. BALCH, doing business as Balch Flavor Company, Pittsburgh, Pa. Filed June 20, 1945.

VANIMITE

FOR FLAVORING EXTRACTS FOR ICE CREAM.
Claims use since Jan. 6, 1945.

Ser. No. 488,124. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Sept. 7, 1945.



Applicant is the owner of the registrations No. 45,344, Aug. 15, 1905, renewed; 63,972, July 16, 1907, renewed. The drawing is lined to indicate the colors red and blue.
FOR WHEAT FLOUR.
Claims use since Mar. 11, 1942.

Ser. No. 488,587. MYLES L. GREENE, doing business as Myles L. Greene & Co., Fort Lauderdale, Fla. Filed Sept. 17, 1945.

MARATHON

FOR FRESH TOMATOES.
Claims use since October 1943.

Ser. No. 491,303. ALABAMA FEED MILLS, Tuscaloosa, Ala. Filed Nov. 9, 1945.

SAW MILL SPECIAL

Applicant disclaims the right to the words "Mill" and "Special" per se, apart from the mark.
FOR HORSE AND MULE FEED.
Claims use since Jan. 3, 1925.

Ser. No. 492,215. FRANCIS MILLERD AND COMPANY LIMITED, Vancouver, British Columbia, Canada. Filed Nov. 26, 1945.

GN SNACKS

No claim is made to the word "Snacks" except in the association shown.
FOR CANNED FISH.
Claims use since Nov. 8, 1944.

Ser. No. 493,832. SHEARER'S DRIED MILK PRODUCTS CORPORATION. Philadelphia, Pa. Filed Dec. 22, 1945.

EMULSEAST

FOR SWINE AND POULTRY FEEDS CONTAINING VITAMIN-ENRICHED SEMI-SOLID BREWERS YEAST, BUTTERMILK, AND WHEY.
Claims use since Nov. 1, 1945.

Ser. No. 495,575. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

TAM

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,576. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

CO-CO

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,577. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

YIP

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,578. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

AJAX

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,579. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

H-Q

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,580. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

TRIX

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,581. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

SHEP

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,582. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

CHIPS

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,584. COASTAL CANNING CORPORATION, Philadelphia, Pa. Filed Jan. 29, 1946.

STAG

FOR CANNED DOG FOOD.
Claims use since Dec. 27, 1945.

Ser. No. 495,696. SANTA MARIA DISTRIBUTORS, Santa Maria, Calif. Filed Jan. 30, 1946.

BONANZA

FOR FRESH VEGETABLES.
Claims use since Jan. 2, 1946.

Ser. No. 495,697. SANTA MARIA DISTRIBUTORS, Santa Maria, Calif. Filed Jan. 30, 1946.

TOKEN

FOR FRESH VEGETABLES.
Claims use since Jan. 2, 1946.

Ser. No. 495,860. FRANCESCO BUTTITTA, doing business as Buttitta Olive Oil Co., Woodlake, Calif. Filed Feb. 2, 1946.

BUTALICO

FOR OLIVES, OLIVE OIL, AND TOMATO SAUCE.
Claims use since June 1, 1938.

Ser. No. 496,255. OTTO W. MEYER, doing business as Farmers Friend Mineral Company, Napoleon, Ohio. Filed Feb. 8, 1946.

FARMERS FRIEND

The word "Farmers" is disclaimed apart from the mark.
FOR MINERAL FEED FOR LIVESTOCK, POULTRY, AND FUR BEARING ANIMALS.
Claims use since Jan. 3, 1930.

Ser. No. 497,677. NORTHWEST CHEMURGY CO-OPERATIVE, Wenatchee, Wash. Filed Mar. 5, 1946.

SYRCO

FOR TABLE SYRUP.
Claims use since Oct. 26, 1945.

Ser. No. 498,098. WALLACE, BURTON & DAVIS CO., INC., New York, N. Y. Filed Mar. 12, 1946.

AEROJEL

FOR DESSERT PUDDING POWDERS.
Claims use since Feb. 25, 1946.

Ser. No. 498,153. LANGE CANNING CORPORATION, Eau Claire, Wis. Filed Mar. 13, 1946. Under 10-year proviso.

Eau Claire

FOR CANNED VEGETABLES—NAMELY, WHOLE KERNEL GOLDEN CORN, CREAM STYLE GOLDEN CORN, EARLY JUNE PEAS, AND SUGAR PEAS.
Claims use since July 14, 1891.

Ser. No. 498,412. J. A. FOLGER & COMPANY, Kansas City, Mo. Filed Mar. 18, 1946. Under 10-year proviso.

FOLGER'S

Applicant is the owner of certificates of registration Nos. 68,138, 152,172, 152,775, 232,126, 389,573, and 395,209.
FOR COFFEE.
Claims use since 1877.

CLASS 47

WINES

Ser. No. 468,523. MARCO IMPORTING CO., Chicago, Ill. Filed Mar. 22, 1944.

La Quinta

FOR WINES.
Claims use since August 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 496,308. W. A. HALLER COMPANY, INC., Pittsburgh and Philadelphia, Pa. Filed Feb. 9, 1946. Under 10-year proviso.

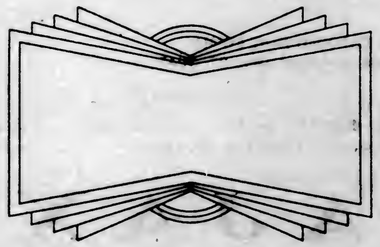
Holmes Best

FOR POTABLE, DISTILLED SPIRITOUS BEVERAGES, PARTICULARLY WHISKEY.
Claims use since 1879.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 485,705. TEXTILEATHER CORPORATION, Toledo, Ohio. Filed July 11, 1945.



FOR TREATED MATERIAL IN THE NATURE OF ARTIFICIAL LEATHER.
Claims use since Oct. 10, 1930.

Ser. No. 490,065. HELY-ARC MODEL EQUIPMENT CO., Akron, Ohio. Filed Oct. 17, 1945.

HELY-ARC

FOR WHEELS FOR MODEL AIRPLANES.
Claims use since Aug. 20, 1945.

Ser. No. 492,528. HARRY STEIN, doing business as Ace Sample Card Co., New York, N. Y. Filed Dec. 1, 1945.

Textogon

FOR TEXTILE SAMPLE CARDS.
Claims use since Oct. 1, 1945.

Ser. No. 493,368. LAUER MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 15, 1945.

Adapt-A-Mat

Applicant disclaims the word "Mat" apart from the mark.
FOR STOVE MATS AND TABLE MATS HAVING AN ASBESTOS BACK AND A METAL TOP, USED AS A SURFACE PROTECTOR.
Claims use since Nov. 7, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 16, 1946

422,292. WEATHER-PROOF COATINGS IN THE FORM OF HEAVY PAINTS. J. W. MORTELL COMPANY, Kankakee, Ill.
Filed March 13, 1943. Serial No. 459,079. PUBLISHED APRIL 9, 1946. Class 16.

422,293. COLOGNES. AFFILIATED PRODUCTS, INC., Jersey City, N. J.
Filed November 3, 1943. Serial No. 464,635. PUBLISHED APRIL 9, 1946. Class 6.

422,294. WASHING COMPOUND FOR USE IN CLEANING CLOTHES, HAVING CHEMICAL PROPERTIES ADAPTED FOR DISINFECTING, DEODORIZING, WATER SOFTENING AND GENERAL HOUSEHOLD USE AND HAVING THE INCIDENTAL PROPERTIES OF A CLEANER. NO-BOIL FLUID CHEMICAL COMPANY, Jamestown, N. Y.
Filed May 16, 1944. Serial No. 470,311. PUBLISHED APRIL 16, 1946. Class 6.

422,295. HAIR AND SCALP PREPARATIONS. A. GRANESE, Boston, Mass.
Filed August 25, 1944. Serial No. 473,601. PUBLISHED APRIL 23, 1946. Class 6.

422,296. MEN'S AND BOYS' SPORTSWEAR, SPECIFICALLY, SPORT SHIRTS, SWEATERS, SPORT JACKETS, SLACKS, SLACK ENSEMBLES, BASQUE SHIRTS, MUFFLERS, GLOVES MADE OF FABRIC AND LEATHER, NECKTIES AND HANDKERCHIEFS. RALPH SHAW, New York, N. Y.
Filed December 23, 1944. Serial No. 477,899. PUBLISHED APRIL 24, 1946. Class 39.

422,297. WATER PURIFICATION TABLETS. BURNHAM SOLUBLE IODINE COMPANY, Auburndale, Mass.
Filed December 27, 1944. Serial No. 477,966. PUBLISHED APRIL 9, 1946. Class 6.

422,298. VAT DYES HAVING PARTICULAR VALUE FOR PRINTING RAYONS. AMERICAN ANILINE PRODUCTS, INC., New York, N. Y.
Filed December 28, 1944. Serial No. 477,990. PUBLISHED APRIL 23, 1946. Class 6.

422,299. POWDER MITTS CONTAINING POWDER. LE SONIER, INC., Boston, Mass.
Filed January 26, 1945. Serial No. 479,043. PUBLISHED APRIL 17, 1945. Class 6.

422,300. PERFUMERY. EVELYN WESTALL, doing business as E. Westall Co., New York, N. Y.
Filed February 7, 1945. Serial No. 479,541. PUBLISHED AUGUST 14, 1945. Class 6.

422,301. SHAVING SOAP. CHARLES M. BURT, doing business as Charles M. Burt Company, Biloxi, Miss.
Filed March 15, 1945. Serial No. 480,945. PUBLISHED APRIL 9, 1946. Class 4.

422,302. TOILET CREAMS. KATHLEEN MARY QUINLAN, INC., New York, N. Y.
Filed March 28, 1945. Serial No. 481,427. PUBLISHED JANUARY 1, 1946. Class 6.

422,303. PERFUME, COLOGNE AND DUSTING POWDER. IRENE BLAKE COSMETICS, INC., also doing business as Irene Blake, New York, N. Y., assignor to Evelyn Westall trading as Evelyn Westall Company.
Filed April 14, 1945. Serial No. 482,132. PUBLISHED AUGUST 14, 1945. Class 6.

422,304. HAND LOTION, QUININE HAIR LOTION, MASSAGE CREAM, LILAC LOTION, ETC. PUREX PRODUCTS, INCORPORATED, Baltimore, Md., assignor to Beau Brummel Ties, Inc., Cincinnati, Ohio, a corporation of Ohio.
Filed April 24, 1945. Serial No. 482,545. PUBLISHED NOVEMBER 27, 1945. Class 6.

422,305. ESTROGENIC PREPARATION. WYETH INCORPORATED, Philadelphia, Pa.
Filed May 14, 1945. Serial No. 483,358. PUBLISHED APRIL 23, 1946. Class 6.

422,306. PERFUME. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed May 18, 1945. Serial No. 483,537. PUBLISHED APRIL 23, 1946. Class 6.

422,307. ORGANIC SOLVENTS USED AS THINNERS FOR SOLUTIONS OF SYNTHETIC RESINOUS MATERIALS FOR USE TO FORM COATINGS ON ELECTROPLATING APPARATUS AND PARTS THEREOF, ETC. UNITED CHROMIUM, INCORPORATED, New York, N. Y.
Filed May 29, 1945. Serial No. 483,943. PUBLISHED APRIL 9, 1946. Class 6.

422,308. LIPSTICK, ROUGE, FACE POWDER, PERFUME, AND NAIL POLISH. MONROE HARRISON, Chicago, Ill.
Filed June 2, 1945. Serial No. 484,093. PUBLISHED APRIL 9, 1946. Class 6.

422,309. SILVER POLISH. DOHRMANN HOTEL SUPPLY CO., San Francisco, Calif.
Filed June 4, 1945. Serial No. 484,121. PUBLISHED APRIL 16, 1946. Class 4.

422,310. PERFUMES, TOILET WATERS, FILLED POWDER AND ROUGE CONTAINERS, ROUGES, LIPSTICKS, BATH SALTS, LOTIONS FOR THE SKIN AND HAIR, AND POWDER SACHETS. ROGER & GALLET, New York, N. Y.
Filed June 5, 1945. Serial No. 484,183. PUBLISHED APRIL 16, 1946. Class 6.

422,311. LADIES' AND CHILDREN'S SKIRTS, SLACKS, AND BLOUSES. C. STILLITZ, London, England.
Filed June 14, 1945. Serial No. 484,547. PUBLISHED APRIL 16, 1946. Class 39.

422,312. A COMBINATION OF A SULFONAMIDE AND AN ANTI-BIOTIC, PARTICULARLY SODIUM SULFADIAZINE AND TYROTHRICIN, IN SOLUTION OR SUSPENSON, FOR USE AS NOSE DROPS, A GARGLE, OR AN IRRIGATION, AND AS AN ADJUNCT TO THERAPY IN UPPER RESPIRATORY CONGESTIVE INFECTIONS. W. BASIL THOMPSON, doing business as International Chemicals, Arlington, Va., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland.
Filed June 21, 1945. Serial No. 484,862. PUBLISHED JANUARY 1, 1946. Class 6.

422,313. SKIN LOTION OR WASH ADAPTED TO REMOVE STALE COSMETICS AND IMPURITIES FROM THE SKIN. COSMEX CORP., New York, N. Y.
Filed June 22, 1945. Serial No. 484,881. PUBLISHED APRIL 16, 1946. Class 6.

422,314. HERB TEA FOR USE IN RELIEVING ASTHMA, CATARRH, HAY FEVER, AND COLDS. JOSEPH J. BATES, Kansas City, Mo.
Filed June 25, 1945. Serial No. 484,998. PUBLISHED APRIL 16, 1946. Class 6.

422,315. COSMETICS, SPECIFICALLY, CLEANSING CREAM, DRY SKIN NIGHT CREAM, OILY SKIN NIGHT CREAM, FACIAL OIL, BEAUTY PACK, FACE POWDER, LIPSTICK, CREME ROUGE, CAKE MAKEUP, MASCARA, OILY SKIN FRESHENER, NORMAL SKIN FRESHENER, DRY SKIN LOTION, SKIN BEAUTIFIER (POWDER BASE), SUNBURN LOTION, MEDICATED CREAM, SUN TAN LOTION, AND EYE CREAM. SARA P. BUCKWALTER, doing business as Sari Cosmetics, Grosse Pointe, Mich.
Filed August 3, 1945. Serial No. 486,661. PUBLISHED APRIL 16, 1946. Class 6.

422,316. LEG MAKE-UP. JEURELLE, INC., New York, N. Y.
Filed August 8, 1945. Serial No. 486,902. PUBLISHED DECEMBER 4, 1945. Class 6.

422,317. WASHING COMPOUNDS, POWDERED HAND CLEANERS, PAINT AND WALL CLEANERS, GENERAL HOUSEHOLD AND ALL PURPOSE CLEANERS, BOWL CLEANERS, SCRUBBING SOAPS, METAL POLISHES, COCOANUT LIQUID SOAPS, AND SOAPS. CHEMICAL MANUFACTURING & DISTRIBUTING COMPANY, Easton, Pa.
Filed August 21, 1945. Serial No. 487,352. PUBLISHED APRIL 9, 1946. Class 4.

422,318. COATING COMPOSITIONS CONTAINING VINYL RESINS. MAAS & WALDSTEIN COMPANY, Newark, N. J.
Filed September 12, 1945. Serial No. 488,343. PUBLISHED APRIL 9, 1946. Class 16.

422,319. ENAMELS CONTAINING SYNTHETIC RESINS AND VARNISHES. MAAS & WALDSTEIN COMPANY, Newark, N. J.
Filed September 12, 1945. Serial No. 488,350. PUBLISHED APRIL 9, 1946. Class 16.

422,320. METAL POLISH AND METAL CLEANER. JAMES E. SMITH, doing business as Jeps Products Co., Philadelphia, Pa.
Filed September 14, 1945. Serial No. 488,484. PUBLISHED APRIL 23, 1946. Class 4.

422,321. OINTMENT USED IN THE TREATMENT OF BURNS AND OTHER WOUNDS. ARCHER-TAYLOR DRUG CO., also doing business as Archer-Taylor Co., Wichita, Kans.
Filed September 20, 1945. Serial No. 488,724. PUBLISHED APRIL 16, 1946. Class 6.

422,322. LIQUID DEODORANT. THE SELIG COMPANY, Atlanta, Ga.
Filed September 20, 1945. Serial No. 488,780. PUBLISHED APRIL 16, 1946. Class 6.

422,323. STERILIZING MATERIAL COMPRISING WATER SOLUBLE COMPOUNDS WHICH, WHEN DISSOLVED IN WATER, PROVIDE AN AQUEOUS SOLUTION USEFUL FOR STERILIZING DISHES, ETC. WALTER S. BACHMAN, doing business as Q A C Company, Los Angeles, Calif.
Filed September 24, 1945. Serial No. 488,884. PUBLISHED APRIL 9, 1946. Class 6.

422,324. STERILIZING MATERIAL COMPRISING WATER SOLUBLE COMPOUNDS WHICH, WHEN DISSOLVED IN WATER, PROVIDE AN AQUEOUS SOLUTION USEFUL FOR STERILIZING DISHES, ETC. WALTER S. BACHMAN, doing business as Q A C Company, Los Angeles, Calif.
Filed September 24, 1945. Serial No. 488,885. PUBLISHED APRIL 9, 1946. Class 6.

422,325. HAIR DRESSING. NORTHERN LABORATORIES, Birmingham, Ala.
Filed September 28, 1945. Serial No. 489,141. PUBLISHED APRIL 23, 1946. Class 6.

422,326. DIAMOND ABRASIVE WHEELS. DIAMOND WHEEL INDUSTRIES, INC., Chicago, Ill.
Filed October 1, 1945. Serial No. 489,211. PUBLISHED APRIL 16, 1946. Class 4.

422,327. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS. PARFUMS VERLAYNE (S. A. R. L.), Paris, France.
Filed October 3, 1945. Serial No. 489,355. PUBLISHED APRIL 16, 1946. Class 6.

422,328. FACE POWDER, FACE MAKE UP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed October 4, 1945. Serial No. 489,380. PUBLISHED APRIL 16, 1946. Class 6.

422,329. GARMENTS OF WOOLEN AND/OR WORSTED FABRICS—NAMELY, OVERCOATS, SUITS, UNDERWEAR, NECKTIES AND OUTER AND UNDER SHIRTS FOR THE USE OF MEN, WOMEN, AND CHILDREN. THE WOOLEN CORPORATION OF AMERICA, New York, N. Y.
Filed October 4, 1945. Serial No. 489,428. PUBLISHED APRIL 16, 1946. Class 30.

422,330. PERFUME, TOILET WATER, LIP STICK, ROUGE, FACE POWDER, NIGHT CREAM, FOUNDATION CREAM, CLEANSING CREAM, ETC. SOCIALITE COSMETICS, INC., New York, N. Y.
Filed October 9, 1945. Serial No. 489,696. PUBLISHED APRIL 23, 1946. Class 6.

422,331. PENTAVALENT ANTIMONY COMPOUND FOR THE TREATMENT OF KALA-AZAR AND FILARIASIS. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed October 15, 1945. Serial No. 490,001. PUBLISHED APRIL 23, 1946. Class 6.

422,332. HAIR DRESSING. IRRESISTIBLE, INC., New York, N. Y.
Filed October 18, 1945. Serial No. 490,120. PUBLISHED APRIL 23, 1946. Class 6.

422,333. DYNAMITE. HERCULES POWDER COMPANY, Wilmington, Del.
Filed October 19, 1945. Serial No. 490,190. PUBLISHED APRIL 23, 1946. Class 9.

422,334. CHEMICAL COMPOUND FOR IMPREGNATING OR COATING PAPER, FABRICS, LEATHER, AND ANALOGOUS MATERIALS TO RENDER THE SAME MOISTURE AND AIR PROOF. HERMETITE CORPORATION, Nutley, N. J.
Filed October 19, 1945. Serial No. 490,191. PUBLISHED APRIL 9, 1946. Class 6.

422,335. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE POWDER, TALCUM POWDER, AND BATH POWDER. CHANEL, INC., New York, N. Y.
Filed October 20, 1945. Serial No. 490,231. PUBLISHED APRIL 16, 1946. Class 6.

422,336. FERTILIZER. CLYDE VAUGHN, doing business as Pestless Products Company, Pasadena, Calif.
Filed October 22, 1945. Serial No. 490,346. PUBLISHED APRIL 9, 1946. Class 10.

422,337. FACE LOTIONS AND AFTER-SHAVING PREPARATIONS. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed October 22, 1945. Serial No. 490,347. PUBLISHED APRIL 16, 1946. Class 6.

422,338. LIPSTICKS. POND'S EXTRACT COMPANY, New York, N. Y.
Filed October 24, 1945. Serial No. 490,445. PUBLISHED APRIL 16, 1946. Class 6.

422,339. MEDICINAL PREPARATION USED FOR FEMALE DISORDERS. ENDO PRODUCTS INC., New York, N. Y.
Filed October 26, 1945. Serial No. 490,530. PUBLISHED APRIL 16, 1946. Class 6.

422,340. AROMATIC PREPARATION USED AS A PERFUME OR FLAVOR BASE OR INGREDIENT. GENERAL DRUG COMPANY, New York, N. Y.
Filed October 29, 1945. Serial No. 490,651. PUBLISHED APRIL 9, 1946. Class 6.

422,341. PERFUME AND COLOGNE. WETHERHOLT'S PERFUME CO., Chicago, Ill.
Filed October 29, 1945. Serial No. 490,724. PUBLISHED APRIL 9, 1946. Class 6.

422,342. PERFUME AND COLOGNE. WETHERHOLT'S PERFUME CO., Chicago, Ill.
Filed October 29, 1945. Serial No. 490,727. PUBLISHED APRIL 9, 1946. Class 6.

422,343. SHAVING CREAM, FACIAL AND BATH SOAPS. GOLDEN ARROW TOILETRIES, New York, N. Y.
Filed October 31, 1945. Serial No. 490,812. PUBLISHED APRIL 16, 1946. Class 4.

422,344. ANTIACID FOR RELIEF OF ACID INDIGESTION. EDWARD J. BRENNAN, doing business as Apothecaries House, Hasbrouck Heights, N. J.
Filed November 1, 1945. Serial No. 490,871. PUBLISHED APRIL 9, 1946. Class 6.

422,345. MISSES' AND WOMEN'S COATS AND SUITS. LINKER & HERBERT INC., New York, N. Y.
Filed November 1, 1945. Serial No. 490,892. PUBLISHED APRIL 23, 1946. Class 39.

422,346. READY MIXED PAINTS. BENJAMIN MOORE & Co., Jersey City, N. J., and New York, N. Y.
Filed November 1, 1945. Serial No. 490,899. PUBLISHED APRIL 2, 1946. Class 16.

422,347. GENERAL DISINFECTANT. DAVID D. CATTS, doing business as Retort Pharmaceutical Co., Long Island City, N. Y., assignor to Retort Pharmaceutical Co., Inc., Long Island City, N. Y., a corporation of New York.
Filed November 2, 1945. Serial No. 490,926. PUBLISHED APRIL 9, 1946. Class 6.

422,348. ANTIBACTERIAL PREPARATION MORE COMMONLY APPLIED IN VETERINARY USE. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 2, 1945. Serial No. 490,974. PUBLISHED APRIL 9, 1946. Class 6.

422,349. SKIN DETERGENT. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 5, 1945. Serial No. 491,111. PUBLISHED APRIL 2, 1946. Class 4.

422,350. PROTEIN-CARBOHYDRATE PREPARATION FOR NUTRITIONAL USE AND FOR NUTRITIONAL DEFICIENCY THERAPY. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 6, 1945. Serial No. 491,171. PUBLISHED APRIL 9, 1946. Class 6.

422,351. LADIES' COATS AND SUITS. DAVID LEVITCH, doing business as Betsy Marlin Coat & Suit Co., Kansas City, Mo.
Filed November 9, 1945. Serial No. 491,345. PUBLISHED APRIL 16, 1946. Class 39.

422,352. PRESCRIPTION VEHICLE FOR THE SOLUTION AND/OR SUSPENSION OF ACTIVE DRUGS. WILLIAM R. WARNER & CO., INC., New York, N. Y.
Filed November 9, 1945. Serial No. 491,376. PUBLISHED APRIL 9, 1946. Class 6.

422,353. VITAMIN PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 10, 1945. Serial No. 491,432. PUBLISHED APRIL 16, 1946. Class 6.

422,354. ANTISEPTIC PREPARATION FOR ORAL USE. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 10, 1945. Serial No. 491,434. PUBLISHED APRIL 16, 1946. Class 6.

422,355. INSECTICIDES. DODGE & OLCOTT, INC., New York, N. Y.
Filed November 14, 1945. Serial No. 491,556. PUBLISHED APRIL 16, 1946. Class 6.

422,356. RUBBER CHEMICALS SUCH AS VULCANIZING AGENTS, TO BE INCORPORATED IN RUBBER COMPOSITIONS. THE B. F. GOODRICH COMPANY, doing business as B. F. Goodrich Chemical Company, a Division of The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio.
Filed November 14, 1945. Serial No. 491,563. PUBLISHED APRIL 16, 1946. Class 6.

422,357. PERFUMES, TOILET WATERS, SACHET POWDERS, EAU DE COLOGNES, TALCUM POWDER, FACE POWDER, BATH POWDER, FACE CREAMS, AND CLEANSING CREAMS. PARFUMS CHARBERT, INC., New York, N. Y.
Filed November 15, 1945. Serial No. 491,672. PUBLISHED APRIL 9, 1946. Class 6.

422,358. ABIETIC ACID. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y.
Filed November 15, 1945. Serial No. 491,694. PUBLISHED APRIL 16, 1946. Class 6.

422,359. SOAPS IN CAKE AND STICK FORM. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 16, 1945. Serial No. 491,726. PUBLISHED APRIL 23, 1946. Class 4.

422,360. PHARMACEUTICAL PREPARATION CONSISTING OF A WHITE, CRYSTALLINE, WATER-SOLUBLE POWDER FOR USE IN SOLUTION AS A COLD PACK FOR LOCAL APPLICATION FOR CUTS, BRUISES, BURNS, SPRAINS, MUSCULAR PAINS, BOILS, PIMPLES, SKIN ERUPTIONS, AND INSECT BITES. COZONE LABORATORIES, INC., Panama City, Fla.
Filed November 17, 1945. Serial No. 491,752. PUBLISHED APRIL 16, 1946. Class 6.

422,361. SUDSING CLEANER, CLEANSER, AND DETERGENT. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed November 17, 1945. Serial No. 491,772. PUBLISHED APRIL 23, 1946. Class 4.

422,362. COLORS IN THE FORM OF POWDER AND PULP USED IN THE MANUFACTURE OF COSMETICS; PIGMENT COLORS AND LAKE COLORS FOR GENERAL MANUFACTURING PURPOSES; AND COAL-TAR DYES. H. KOHNSTAMM & CO., INC., New York, N. Y.
Filed November 19, 1945. Serial No. 491,843. PUBLISHED APRIL 9, 1946. Class 6.

422,363. SOAP. ROYCEMORE TOILETRIES, INC., Chicago, Ill.
Filed November 19, 1945. Serial No. 491,888. PUBLISHED APRIL 23, 1946. Class 4.

422,364. PERFUMES. THE CHEMDRUG CORPORATION, New York, N. Y.
Filed November 20, 1945. Serial No. 491,910. PUBLISHED APRIL 16, 1946. Class 6.

422,365. CLEANING COMPOUND FOR GENERAL USE. JOHN T. STANLEY CO., INC., New York, N. Y.
Filed November 20, 1945. Serial No. 491,937. PUBLISHED APRIL 23, 1946. Class 4.

422,366. LIQUID DRY CLEANER. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed November 21, 1945. Serial No. 491,957. PUBLISHED APRIL 23, 1946. Class 4.

422,367. CHEMICAL USED FOR THE GENERATION OF A GREENHOUSE FUMIGANT. HYDROPONIC CHEMICAL COMPANY, INC., New York, N. Y.
Filed November 27, 1945. Serial No. 492,269. PUBLISHED APRIL 9, 1946. Class 6.

422,368. LIQUID PREPARATION FOR THE TREATMENT OF COLIC AND FOR EXTERNAL APPLICATION TO THE HUMAN BODY FOR MINOR CUTS, BRUISES, MUSCULAR SORENESS AND AS A COUNTER-IRRITANT FOR SUPERFICIAL CONGESTION. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed December 3, 1945. Serial No. 492,608. PUBLISHED APRIL 9, 1946. Class 6.

422,369. VITAMIN B COMPLEX FACTOR. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed December 4, 1945. Serial No. 492,634. PUBLISHED APRIL 23, 1946. Class 6.

422,370. PERFUMES, TOILET WATER, EAU DE COLOGNE, FACE CREAMS AND LOTIONS, HAND CREAMS AND LOTIONS, ASTRINGENTS, LIPSTICKS, ROUGES, FACE POWDER, TALCUM POWDER, DUSTING POWDER, PERSONAL DEODORANT, NAIL POLISH, MASCARA, EYE SHADOW, EYE BROW PENCIL, SHAMPOO, BRILLIANTINE, AND BATH SALTS. ERNST PERITZ, doing business as Delex Products, New York, N. Y.
Filed December 4, 1945. Serial No. 492,653. PUBLISHED APRIL 9, 1946. Class 6.

422,371. PERFUMES, TOILET WATER, EAU DE COLOGNE, FACE CREAMS AND LOTIONS, HAND CREAMS AND LOTIONS, ASTRINGENTS, LIPSTICKS, ROUGES, FACE POWDER, TALCUM POWDER, DUSTING POWDER, PERSONAL DEODORANT, NAIL POLISH, MASCARA, EYE SHADOW, EYE BROW PENCIL, SHAMPOO, BRILLIANTINE, AND BATH SALTS. ERNST PERITZ, doing business as Delex Products, New York, N. Y.
Filed December 4, 1945. Serial No. 492,654. PUBLISHED APRIL 9, 1946. Class 6.

422,372. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, ROUGE, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed December 6, 1945. Serial No. 492,757. PUBLISHED APRIL 9, 1946. Class 6.

422,373. FACE POWDER, FACE MAKE-UP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed December 7, 1945. Serial No. 492,814. PUBLISHED APRIL 16, 1946. Class 6.

422,374. PERFUMES AND TOILET WATER. ALBERT KESSLER, doing business as Parfumerie Casella, Brooklyn, N. Y.
Filed December 7, 1945. Serial No. 492,840. PUBLISHED APRIL 16, 1946. Class 6.

422,375. SHAMPOO AND PARASITICIDE. METROPOLITAN CHEMICAL CORP., Albany, N. Y.
Filed December 11, 1945. Serial No. 493,071. PUBLISHED APRIL 16, 1946. Class 6.

422,376. FLUIDS FOR USE IN TREATING THE HUMAN HAIR IN GIVING SO-CALLED PERMANENT WAVES. HILCO INCORPORATED, St. Louis, Mo.
Filed December 12, 1945. Serial No. 493,122. PUBLISHED APRIL 23, 1946. Class 6.

422,377. AFTER SHAVE LOTION. ADMIRAL COSMETICS, INC., New York, N. Y.
Filed December 13, 1945. Serial No. 493,159. PUBLISHED APRIL 16, 1946. Class 6.

422,378. PERFUMES, TOILET WATERS, AND COSMETIC CREAMS. LENTHERIC, INCORPORATED, New York, N. Y.
Filed December 13, 1945. Serial No. 493,203. PUBLISHED APRIL 16, 1946. Class 6.

422,379. INSECTICIDE IN COMPOSITION FORM. THE GRIFFITH LABORATORIES, INC., Chicago, Ill.
Filed January 17, 1946. Serial No. 494,903. PUBLISHED APRIL 9, 1946. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

422,380. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TRIPLETT & BARTON INC., Burbank, Calif. Filed Jan. 20, 1943. Serial No. 458,052.

TRIPLETT & BARTON INC.

FOR AUTOMATIC INDUSTRIAL X-RAY MACHINES, AUTOMATIC FILM DEVELOPING AND DRYING MACHINES, ELECTRICAL CONTROLS FOR AUTOMATIC X-RAY MACHINES, ELECTRICALLY CONTROLLED APPARATUS FOR ADJUSTABLY MOUNTING AN X-RAY MACHINE, X-RAY TUBES, PORTABLE READING LAMPS FOR INTERPRETING X-RAY FILM, ELECTRONIC CONTROL EQUIPMENT FOR X-RAY MACHINES, AUTOMATIC FILM DISPENSERS, ELECTRIC CONTROLS FOR X-RAY TUBE CONDITIONING OVENS.
Claims use since Apr. 3, 1940.

422,381. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Feb. 16, 1945. Serial No. 479,887.

Value-Rite

The drawing is lined for the colors red and blue.
FOR PERCOLATORS, KETTLES, SAUCE PANS, DISH PANS, DRINKING CUPS, TEA KETTLES, RICE BOILERS, WASH BASINS, RINSING PANS, SAUCERS, COFFEE POTS, SOUP BOWLS, AND DINNER PLATES, ALL ENAMELWARE.
Claims use since Nov. 17, 1941.

422,382. (CLASS 20. MEASURING AND SCIENTIFIC APPLIANCES.) THE FOLMER GRAFLEX CORPORATION, Rochester, N. Y., now by change of name Graflex, Inc. Filed Feb. 27, 1945. Serial No. 480,286.

STERLING

FOR PHOTOGRAPHIC FILM AND PLATE HOLDERS OF THE CASETTE TYPE.
Claims use since 1900.

422,383. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PHELAN-FAUST PAINT MFG. CO., St. Louis, Mo. Filed Mar. 27, 1945. Serial No. 481,378.

MASK-LAK

FOR QUICK DRYING SYNTHETIC LUSTRELESS ENAMEL DESIGNED TO SECURE ONE COAT OBLITERATION OF STENCILLING MARKS ON WOOD, METAL OR FIBRE CASES.
Claims use since Sept. 8, 1943.

422,384. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HORACE M. DUNLAP, doing business as The Dunlap Company, Seattle, Wash. Filed Apr. 27, 1945. Serial No. 482,674.

DUN-KWIK

FOR WALL CLEANER.
Claims use since Apr. 2, 1945.

422,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERCULES GLUE COMPANY, LTD., doing business as Colloidal Products Corporation, San Francisco, Calif. Filed May 2, 1945. Serial No. 482,377.

COLLOIDAL
D.D.T. DEPOSITOR

FOR SPREADERS AND DEPOSIT BUILDERS FOR INSECTICIDES AND FUNGICIDES.
Claims use since Apr. 2, 1945.

422,386. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GENERAL ABRASIVE COMPANY, INC., Niagara Falls, N. Y. Filed May 17, 1945. Serial No. 483,473.

BUFRITE

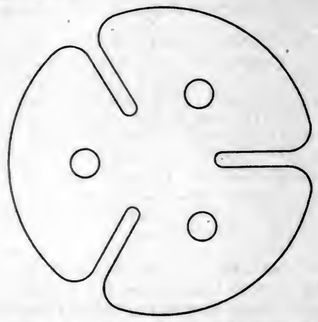
FOR CALCINED ALUMINA MATERIAL SOLD IN GRANULAR FORM IN BULK FOR BUFFING AND OTHER USES.
Claims use since May 7, 1935.

422,387. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NARRAGANSETT MACHINE COMPANY, Pawtucket, R. I. Filed Sept. 12, 1945. Serial No. 488,362.

HYDRO-TESTER

FOR APPARATUS FOR TESTING CLOSABLE CONTAINERS TO DETERMINE STRENGTH THEREOF TO RESIST PRESSURE FROM WITHIN.
Claims use since December 1944.

422,388. (CLASS 7. CORDAGE.) THE THOMAS JACKSON & SON CO., Reading, Pa. Filed Oct. 3, 1945. Serial No. 489,329.



The mark represents a strand guide or separating element used in rope making.
FOR CORDAGE—NAMELY, ROPE AND TWINE MADE FROM JUTE FIBERS, AGAVE FIBERS, AND ABACA FIBERS.
Claims use since Jan. 3, 1945.

422,389. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) STATLER MANUFACTURING COMPANY, Chicago, Ill., assignor to Statler Mfg. Co., Chicago, Ill., a corporation of Illinois. Filed Dec. 7, 1945. Serial No. 492,867.

STATLER MANUFACTURING COMPANY

FOR SYNTHETIC PLASTICS IN GRANULAR, SHEET, TUBE, AND ROD FORM FOR VARIOUS PURPOSES IN THE INDUSTRIAL ARTS.
Claims use since Aug. 10, 1944.

422,390. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FRED MELLOR, Shreveport, La. Filed Jan. 24, 1946. Serial No. 495,320.

LAYFLAT

FOR MOPS.
Claims use since January 1942.

422,391. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) H. A. ADAMS & CO., INC., New York, N. Y. Filed Feb. 21, 1946. Serial No. 497,005.

COINTOTER

FOR HANDBAGS AND PURSES.
Claims use since Apr. 2, 1945.

422,392. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) H. A. ADAMS & CO., INC., New York, N. Y. Filed Feb. 21, 1946. Serial No. 497,006.

KEYTOTER

FOR HANDBAGS, PURSES, AND KEY CASES.
Claims use since Apr. 2, 1945.

TRADE-MARK REGISTRATIONS RENEWED

28,076. **TEMPEST.** RUBBER SHOES. Registered Apr. 7, 1896. BOSTON RUBBER SHOE COMPANY, Boston and Malden, Mass. Re-renewed Apr. 7, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 39.

28,419. **20TH. CENTURY.** WOVEN FABRIC HOSE. Registered June 23, 1896. BENJAMIN L. STOWE, Jersey City, N. J. Re-renewed June 23, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

28,463. **REPEATER.** SHELLS FOR USE IN SHOTGUNS. Registered June 23, 1896. WINCHESTER REPEATING ARMS CO. Re-renewed June 23, 1946, to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware. Class 9.

50,462. **REPRESENTATION OF A DIAMOND (FIGURE).** ELECTRIC-CONDUIT FITTINGS FOR THE BRANCHING OF ELECTRIC WIRES. Registered Mar. 20, 1906. CROUSE-HINDS COMPANY, Syracuse, N. Y., a corporation of New York. Re-renewed Mar. 20, 1946. Class 21.

50,463. **CONDULET.** ELECTRIC-CONDUIT FITTINGS FOR THE BRANCHING OF ELECTRIC WIRES. Registered Mar. 20, 1906. CROUSE-HINDS COMPANY, Syracuse, N. Y., a corporation of New York. Re-renewed Mar. 20, 1946. Class 21.

51,020. **MIKADO.** LEAD-PENCILS. Registered Apr. 3, 1906. EAGLE PENCIL COMPANY. Re-renewed Apr. 3, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

51,234. **GLYCO PHOSPHO CALISO (NEWMANS).** NERVE AND NUTRITIVE TONIC. Registered Apr. 10, 1906. GEO. A. NEWMAN CO. Re-renewed Apr. 10, 1946, to Newman Pharmacal Company, Louisville, Ky., a firm. Class 6.

51,253. **"GAVITT'S" AND PORTRAIT.** MEDICINE FOR THE PURIFICATION OF THE BLOOD AND DISEASES OF THE LIVER, KIDNEYS, AND STOMACH. Registered Apr. 10, 1906. W. W. GAVITT MEDICAL CO. Re-renewed Apr. 10, 1946, to The Gavitt Loan and Investment Company, Topeka, Kans., a corporation of Kansas. Class 6.

51,569. **REPRESENTATION OF AN ENGINE-GOVERNOR.** ENGINE-GOVERNORS. Registered Apr. 17, 1906. THE PICKERING GOVERNOR COMPANY, Portland, Conn., a corporation of Connecticut. Re-renewed Apr. 17, 1946. Class 23.

51,989. **BELLCAPSIC.** MEDICINAL PLASTERS. Registered May 1, 1906. J. M. GROSVENOR & Co., Boston, Mass. Re-renewed May 1, 1946, to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Class 6.

52,140. **"BELL-CAP-SIC" AND DRAWING.** MEDICINAL PLASTERS. Registered May 1, 1906. J. M. GROSVENOR & Co., Boston, Mass. Re-renewed May 1, 1946, to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Class 6.

52,148. **BROOK'S.** SEWING COTTON AND THREAD. Registered May 1, 1906. JONAS BROOK & BROS., LIMITED, Meltham, England. Re-renewed May 1, 1946, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J., a corporation of New Jersey. Class 43.

52,268. **"AMAZON" AND DRAWING.** RUBBER PACKING. Registered May 8, 1906. GORHAM RUBBER COMPANY, San Francisco, Calif. Re-renewed May 8, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

52,274. **BULLDOZER.** WATER-PUMPS. Registered May 8, 1906. F. E. MYERS & BROTHER. Re-renewed May 8, 1946, to The F. E. Myers & Bro. Co., Ashland, Ohio, a corporation of Ohio. Class 23.

52,355. **CORONA.** COTTON THREAD. Registered May 8, 1906. THE CLARK MILE-END SPOOL COTTON CO., East Newark, N. J. Re-renewed May 8, 1946, to The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Class 43.

52,627. **PICKERING.** ENGINE-GOVERNORS. Registered May 15, 1906. THE PICKERING GOVERNOR COMPANY, Portland, Conn., a corporation of Connecticut. Re-renewed May 15, 1946. Class 23.

52,691. **BLACK DIAMOND.** READY TAR AND FELT ROOFING. Registered May 15, 1906. BARRETT MANUFACTURING COMPANY. Re-renewed May 15, 1946, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Class 12.

52,955. **"ZO" AND DESIGN.** ADHESIVE PLASTERS. Registered May 22, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed May 22, 1946. Class 44.

52,956. **LINTINE.** FELTED ABSORBENT COTTON. Registered May 22, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed May 22, 1946. Class 44.

52,957. **COTTONOID.** FELTED ABSORBENT COTTON. Registered May 22, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed May 22, 1946. Class 44.

53,167. **PARALLEL LONGITUDINAL SOLID LINES OF RED, WHITE, AND BLUE COLORS.** FABRIC HOSE. Registered May 29, 1906. EUREKA FIRE HOSE COMPANY, Jersey City, N. J. Re-renewed May 29, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

53,168. **PARALLEL LONGITUDINAL BROKEN LINES OF RED, WHITE, BLUE, WHITE, AND RED COLORS.** FABRIC HOSE. Registered May 29, 1906. EUREKA FIRE HOSE COMPANY, Jersey City, N. J. Re-renewed May 29, 1946, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Class 35.

53,173. **SYLPHON.** HEAT-REGULATORS FOR USE ON BOILERS, FURNACES, AND STOVES. Registered May 29, 1906. THE FULTON COMPANY. Re-renewed May 29, 1946, to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware. Class 34.

53,250. **REPRESENTATION OF A BEAR ON A HERALDIC ROLL.** SEWING COTTON WOUND ON SPOOLS OR REELS. Registered May 29, 1906. J. & P. COATS, LIMITED, Paisley, Scotland. Re-renewed May 29, 1946, to J. & P. Coats (R. I.) Inc., Pawtucket, R. I., a corporation of Rhode Island. Class 43.

53,460. **DUNHAM'S.** PREPARED COCOANUT. Registered June 5, 1906. DUNHAM MANUFACTURING COMPANY, New York, N. Y. Re-renewed June 5, 1946, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 46.

54,124. **K-Y.** ANTISEPTIC NON-FATTY AND SOLUBLE LUBRICATING JELLY. Registered June 19, 1906. VAN HORN & SAWTELL, New York, N. Y. Re-renewed June 19, 1946, to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Class 6.

54,235. **LONG LIFE.** SUSPENSORY BANDAGES. Registered June 26, 1906. Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Re-renewed June 26, 1946. Class 44.

54,249. **REPRESENTATION OF A RED CROSS.** SUSPENSORY BANDAGES. Registered June 26, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed June 26, 1946. Class 44.

54,308. **REPRESENTATION OF A RED CROSS.** MEDICINAL AND SURGICAL PLASTERS. Registered June 26, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed June 26, 1946. Classes 6 and 44.

54,309. **REPRESENTATION OF A RED CROSS.** CATHETERS, STOMACH-TUBES, AND BOUGIES. Registered June 26, 1906. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Re-renewed June 26, 1946. Class 44.

54,324. **REPRESENTATION OF AN ELEPHANT ON A HERALDIC ROLL.** DARNING-COTTON, CROCHET-COTTON, AND COTTON THREAD. Registered June 26, 1906. THE CLARK MILE-END SPOOL COTTON CO., East Newark, N. J. Re-renewed June 26, 1946, to The Clark Thread Company, Newark, N. J., a corporation of New Jersey. Class 43.

54,368. **RED SEAL.** TALKING-MACHINE RECORDS. Registered June 26, 1906. VICTOR TALKING MACHINE CO., Camden, N. J. Re-renewed June 26, 1946, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Class 36.

54,712. **MACK'S.** MEDICINAL PLASTERS. Registered June 26, 1906. J. ELLWOOD LEE COMPANY, Conshohocken, Pa. Re-renewed June 26, 1946, to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Class 6.

55,065. **STANDARD.** DICTIONARIES, ATLASES, AND CYCLOPEDIAS. Registered Aug. 7, 1906. FUNK & WAGNALLS COMPANY. Re-renewed Aug. 7, 1946, to Funk & Wagnalls Company, New York, N. Y., a corporation of Delaware. Class 38.

55,233. **BORDEN'S.** MILK, CONDENSED MILK, CREAM AND EVAPORATED CREAM, AND BUTTERMILK. Registered Aug. 7, 1906. BORDEN'S CONDENSED MILK CO., Jersey City, N. J., and New York, N. Y. Re-renewed Aug. 7, 1946, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

55,239. **"GAUNTLET" ETC.** SALAD-DRESSING AND SAUCES. Registered Aug. 7, 1906. E. R. DURKEE & Co., New York, N. Y. Re-renewed Aug. 7, 1946, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 46.

55,299. **CARBO MAGNETIC.** RAZORS AND POCKET-KNIVES. Registered Aug. 14, 1906. ALBERT L. SILBERSTEIN. Re-renewed Aug. 14, 1946, to Alfred L. Griffon, doing business as Griffon Cutlery Works, New York, N. Y. Class 23.

55,321. **"THE SELBY SHOE CO." AND DESIGN.** LEATHER BOOTS AND SHOES. Registered Aug. 14, 1906. THE SELBY SHOE CO., Portsmouth, Ohio, a corporation of Ohio. Re-renewed Aug. 14, 1946. Class 39.

55,340. **KIMBALL.** ORGANS. Registered Aug. 14, 1906. W. W. KIMBALL COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed Aug. 14, 1946. Class 36.

55,505. **"KEYSTONE" AND DESIGN.** VARNISHES, JAPANS, LIQUID FILLERS, AND WATERPROOF FINISH. Registered Aug. 14, 1906. KEYSTONE VARNISH COMPANY, Brooklyn, N. Y., a corporation of New York. Re-renewed Aug. 14, 1946. Class 16.

55,606. **"DOAN'S" ETC. AND DRAWING.** OINTMENTS. Registered Aug. 21, 1906. FOSTER-MCCLELLAN COMPANY, Buffalo, N. Y., a corporation of New York. Re-renewed Aug. 21, 1946. Class 6.

55,630. **BLUE LILIES.** PERFUMES. Registered Aug. 21, 1906. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Re-renewed Aug. 21, 1946, to Bourjois, Inc., New York, N. Y., a corporation of New York. Class 6.

55,669. **BOSTONIAN.** LEATHER BOOTS AND SHOES FOR MEN AND WOMEN. Registered Aug. 21, 1906. THE COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Re-renewed Aug. 21, 1946, to Commonwealth Shoe and Leather Company, Whitman, Mass., a corporation of Massachusetts. Class 39.

55,734. **"COMMONWEALTH" ETC.** LEATHER BOOTS AND SHOES FOR MEN, WOMEN, AND YOUTHS. Registered Aug. 21, 1906. THE COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Re-renewed Aug. 21, 1946, to Commonwealth Shoe and Leather Company, Whitman, Mass., a corporation of Massachusetts. Class 39.

55,859. **BRIGHTON.** HOSE-SUPPORTERS. Registered Aug. 21, 1906. PIONEER SUSPENDER COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Aug. 21, 1946. Class 39.

55,875. **"IROQUOIS" ETC.** LAGER-BEER. Registered Aug. 21, 1906. IROQUOIS BREWING CO. Re-renewed Aug. 21, 1946, to Iroquois Beverage Corporation, Buffalo, N. Y., a corporation of New York. Class 48.

56,080. **PETERS CLASSIC.** LEATHER SHOES. Registered Aug. 21, 1906. PETERS SHOE COMPANY. Renewed Aug. 21, 1946, to International Shoe Company, St. Louis, Mo., a corporation of Delaware. Class 39.

209,762. **"Y C O" AND DESIGN.** GASOLINE, BENZOL, MIXTURES OF GASOLINE AND BENZOL, MOTOR FUELS, LUBRICATING OILS AND GREASES. Registered Mar. 2, 1926. YELLOW CAB MOTOR FUEL COMPANY. Renewed Mar. 2, 1946, to Y-Co Motor Fuel Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 15.

209,763. **Y-CO.** GASOLINE, BENZOL, MIXTURES OF GASOLINE AND BENZOL, MOTOR FUELS, LUBRICATING OILS AND GREASES. Registered Mar. 2, 1926. YELLOW CAB MOTOR FUEL COMPANY. Renewed Mar. 2, 1946, to Y-Co Motor Fuel Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 15.

209,806. **BLUE FEATHER.** MATCHES. Registered Mar. 2, 1926. FRANK H. FROMM, doing business as F. H. Fromm & Co., Philadelphia, Pa. Renewed Mar. 2, 1946, to Frank H. Fromm, New York, N. Y. Class 9.

209,904. **BLUE BOY.** CANNED FRUITS, CANNED BERRIES, CANNED VEGETABLES, CANNED APPLE SAUCE, SAUERKRAUT, CHILI SAUCE, AND CATCHUP. Registered Mar. 2, 1926. STITTVILLE CANNING COMPANY, Utica, N. Y. Renewed Mar. 2, 1946, to Haxton Canning Company, Inc., Oakfield, N. Y., a corporation of New York. Class 46.

209,938. **"KEEP KOLOR" ETC. AND DESIGN.** COTTON FABRICS AND COTTON AND SILK FABRICS. Registered Mar. 2, 1926. WM. ANDERSON TEXTILE MFG. CO. INC. Renewed Mar. 2, 1946, to Wm. Anderson Textile Mfg. Co. Ltd., New York, N. Y., a corporation of New York. Class 42.

210,116. **"ORIOLE" AND DRAWING.** CANNED FRUITS AND FRUIT PRESERVES, CANNED VEGETABLES; CANNED SEA FOODS—NAMELY, OYSTERS, LOBSTER, SALMON, CLAMS, SHRIMP, HERRING, AND ANCHOVIES; CHEESE, CONDENSED MILK, COFFEE, COCOA, ICING, AND POWDERED SUGAR; SHELLED, UNSHELLED, AND SALTED NUTS; DATES, PREPARED AND DRIED FIGS, DRIED FRUITS, AND CONFECTIONERY—NAMELY, CANDY, CHOCOLATE CANDY, HARD CANDIES, AND STICK CANDY. Registered Mar. 9, 1926. REID, MURDOCH & CO., Chicago, Ill., a corporation of Illinois. Renewed Mar. 9, 1946. Class 46.

210,274. **"VENETIAN ODEURSANS" AND DESIGN.** DEODORANTS. Registered Mar. 9, 1926. FLORENCE N. LEWIS, doing business as Elizabeth Arden. Renewed Mar. 9, 1946, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Class 6.

211,176. **STERIPAK.** SURGICAL DRESSINGS. Registered Apr. 6, 1926. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Renewed Apr. 6, 1946. Class 44.

211,186. **Y.** STEEL PIPE AND PIPE COUPLINGS. Registered Apr. 6, 1926. THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio, a corporation of Ohio. Renewed Apr. 6, 1946. Class 13.

211,187. **"Y" IN A CIRCLE.** STEEL PIPE. Registered Apr. 6, 1926. THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio, a corporation of Ohio. Renewed Apr. 6, 1946. Class 13.

211,192. **ARDENETTE.** COSMETICS—NAMELY, FACE CREAMS, MASSAGE CREAMS, AND HAIR POMADES. FACE POWDER, ROUGE, AND TALCUM POWDER. Registered Apr. 6, 1926. FLORENCE N. LEWIS, doing business as Elizabeth Arden. Renewed Apr. 6, 1946, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Class 6.

211,504. **EVERSCRIPT.** FOUNTAIN PENS. Registered Apr. 13, 1926. THE WAHL COMPANY. Renewed Apr. 13, 1946, to Eversharp, Inc., Chicago, Ill., a corporation of Delaware. Class 37.

211,943. **REPRESENTATION OF AN AUREOLE.** CONFECTIONS—NAMELY, IN THE FORM OF TABLETS AND PASTILS, JAM, AND PRESERVED FRUIT. Registered Apr. 20, 1926. AKTIEBOLAGET PASTILL, Gefle, Sweden. Renewed Apr. 20, 1946, to F. Ahlgrens Tekniska Fabrik Aktiebolag, Gävle, Sweden, a corporation of Sweden. Class 46.

212,747. **KWIL-TES.** MATTRESSES. Registered May 11, 1926. A. BRANDWEIN & CO., Chicago, Ill., a corporation of Illinois. Renewed May 11, 1946. Class 32.

213,088. **"SLATEBESTOS" ETC.** BLACKBOARDS. Registered May 18, 1926. BECKLEY-CARDY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 18, 1946. Class 50.

213,223. **BLUE DANUBE.** CANDY. Registered May 25, 1926. I. KOSLOFF AND SONS. Renewed May 25, 1946, to I. Kosloff & Sons, Inc., New York, N. Y., a corporation of New York. Class 46.

213,259. **REPRESENTATION OF A SINGLE TUFT OF WHITE BRISTLES CENTRALLY DISPOSED IN BRUSH.** PAINTBRUSHES. Registered May 25, 1926. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed May 25, 1946. Class 29.

213,391. **ADAPTIC.** BANDAGES. Registered May 25, 1926. JOHNSON & JOHNSON, New Brunswick, N. J., a corporation of New Jersey. Renewed May 25, 1946. Class 44.

213,724. **"ENDO" AND DESIGN.** INTRAVENOUS SOLUTIONS FOR THE FOLLOWING MEDICINAL PURPOSES: ANÆMIA, RHEUMATISM, ASTHMA, SYPHILIS, ACNE, PYLETIS, BRONCHITIS, GOITER, NEURASTHENIA. Registered June 1, 1926. INTRAVENOUS PRODUCTS COMPANY OF AMERICA, INC., New York, N. Y. Renewed June 1, 1946, to Endo Products, Inc., Richmond Hill, N. Y., a corporation of New York. Class 6.

213,922. **FAHRALLOY.** HEAT-RESISTING AND CORROSION-RESISTING AND OXIDATION-RESISTING ALLOYS, BOTH IN THE RAW OR INGOT FORM AND IN THE FORM OF ROUGH CASTINGS, PARTIALLY-FINISHED CASTINGS, AND FINISHED CASTINGS. Registered June 8, 1926. AMERICAN MANGANESE STEEL COMPANY, Chicago and Chicago Heights, Ill., New York, N. Y., New Castle, Del., Denver, Colo., St. Louis, Mo., Los Angeles, and Oakland, Calif. Renewed June 8, 1946, to The Fahralloy Company, Harvey, Ill., a corporation of Illinois. Class 14.

214,265. **RAINBOW.** ANGULAR CELLULOID TAB GUIDES. Registered June 15, 1926. THE GLOBE-WERNICKE CO., Norwood, Ohio. Renewed June 15, 1946, to The Globe-Wernicke Co., Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 37.

214,308. **NELSON'S MASTER SLAB.** ASPHALT-COMPOSITION SHINGLES. Registered June 22, 1926. B. F. NELSON MANUFACTURING COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed June 22, 1946. Class 12.

215,247. **FLEECE TWIST.** TOPCOATS AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. Registered July 13, 1926. J. SCHOENEMAN, INCORPORATED, Baltimore, Md., a corporation of Maryland. Renewed July 13, 1946. Class 39.

215,282. **"ETHYL" ETC. AND DESIGN.** ANTIKNOCK COMPOUND. Registered July 13, 1926. ETHYL GASOLINE CORPORATION, Moraine City, Dayton, Ohio. Renewed July 13, 1946, to Ethyl Corporation, New York, N. Y., a corporation of Delaware. Class 6.

215,339. **"BRILLO" AND DESIGN.** CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTHS OF ABRADANT NATURE AND FOR REMOVING FOREIGN MATTER FROM METAL AND OTHER SURFACES. Registered July 13, 1926. BRILLO MANUFACTURING COMPANY, INC., Brooklyn, N. Y., a corporation of New York. Renewed July 13, 1946. Class 4.

215,340. **BUCYRUS.** ELECTRIC-LIGHTING PLANTS, MOTOR GENERATORS, CABLES FOR CARRYING ELECTRIC CURRENT, LIFTING MAGNETS, AND REPAIR, SPARE, AND REPLACEMENTS PARTS FOR THE GOODS SPECIFIED. Registered July 13, 1926. BUCYRUS COMPANY. Renewed July 13, 1946, to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware. Class 21.

215,422. **TRI-PLY.** COATS, VESTS, TROUSERS, KNICKERBOCKERS, AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. Registered July 20, 1926. J. SCHOENEMAN, INCORPORATED, Baltimore, Md., a corporation of Maryland. Renewed July 20, 1946. Class 39.

215,759. **REPRESENTATION OF A SHIELD-LIKE DESIGN.** HEAVY CHEMICALS, ALSO KNOWN AS COMMERCIAL OR TECHNICAL CHEMICALS, AND FOR REAGENT CHEMICALS. Registered July 27, 1926. GENERAL CHEMICAL COMPANY, New York, N. Y., a corporation of New York. Renewed July 27, 1946. Class 6.

216,004. **THREE BLACK BANDS ON A BROOM HANDLE.** BROOMS. Registered Aug. 3, 1926. FORTUNA BROOM COMPANY. Renewed Aug. 3, 1946, to Jacob L. Beck, doing business as Fortuna Broom Company, Beeville, Tex. Class 29.

216,023. **"ETHYL" ETC. AND DESIGN.** MOTOR FUEL OILS. Registered Aug. 3, 1926. ETHYL GASOLINE CORPORATION, Moraine City, Dayton, Ohio. Renewed Aug. 3, 1946, to Ethyl Corporation, New York, N. Y., a corporation of Delaware. Class 15.

216,141. **ETHYL.** MOTOR FUEL OILS. Registered Aug. 3, 1926. ETHYL GASOLINE CORPORATION, Moraine City, Dayton, Ohio. Renewed Aug. 3, 1946, to Ethyl Corporation, New York, N. Y., a corporation of Delaware. Class 15.

216,248. **SWEET MAMMA.** FACE LOTIONS. Registered Aug. 10, 1926. ELI S. LEFFLER, doing business as Leffler & Co., St. Louis, Mo. Renewed Aug. 10, 1946. Class 6.

216,266. **"SUPERBA" ETC. AND DRAWING.** GASOLINE, NAPHTHA, KEROSENE, AUTOMOBILE OIL, GAS OIL, FUEL OIL, ROAD OIL, AND FLUX OIL. Registered Aug. 10, 1926. PAUL W. BOSWELL, doing business as Boswell Oil Company, Cincinnati, Ohio. Renewed Aug. 10, 1946. Class 15.

216,267. **SNOW FLAKE.** CLEANSING PREPARATION USED EITHER AS A SUBSTITUTE FOR OR IN CONNECTION WITH SOAPS OR WASHING POWDERS. Registered Aug. 10, 1926. THE SOLVAY PROCESS COMPANY, Solvay, N. Y. Renewed Aug. 10, 1946, to The Solvay Process Company, New York, N. Y., a corporation of New York. Class 4.

216,366. **HERCOSOL.** HIGH-BOILING SOLVENT FOR GUMS AND CELLULOSE ESTERS. Registered Aug. 10, 1926. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed Aug. 10, 1946. Class 6.

216,448. **GOLD SEAL.** VINEGARS. Registered Aug. 10, 1926. DUFFY-MOTT COMPANY, INC., New York, N. Y., a corporation of New York. Renewed Aug. 10, 1946. Class 46.

216,491. **SLATOPLATE.** BLACKBOARDS. Registered Aug. 10, 1926. BECKLEY-CARDY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed Aug. 10, 1946. Class 50.

216,539. **"H & D" AND DESIGN.** CARTONS, BOXES, SHIPPING ENVELOPES, PARTITIONS FOR RECEPTACLES, AND WRAPPERS, ALL MADE OF PAPER BOARD. Registered Aug. 10, 1926. THE HINDE & DAUCH PAPER CO., Sandusky and Delphos, Ohio, Chicago, Ill., Philadelphia, Pa., New York, N. Y., Muncie, Ind., Gloucester, N. J., and Toronto, Canada. Renewed Aug. 10, 1946, to The Hinde & Dauch Paper Co., Sandusky, Ohio, a corporation of Ohio. Class 2.

216,585. **"GOLD STANDARD" AND DESIGN.** FISHING LINES. Registered Aug. 17, 1926. UNITED STATES WHIP COMPANY, doing business as U. S. Line Company, Westfield, Mass., a corporation of Maine. Renewed Aug. 17, 1946. Class 22.

216,592. **"THREE STAR" AND DRAWING.** HOPS. Registered Aug. 17, 1926. E. CLEMENS HORST COMPANY, San Francisco, Calif., a corporation of New Jersey. Renewed Aug. 17, 1946. Class 1.

216,627. **"DESITIN" AND DRAWING.** MEDICAL COMPOUND (OINTMENT) FOR TREATMENT OF WOUNDS OF ANY DESCRIPTION, FOR SKIN DISEASES OF ANY DESCRIPTION, SKIN ABRASIONS, BRUISES, ULCERS, X-RAY ULCERS, CARBUNCLES, BOILS, ECZEMA, SORE AND CHAPPED SKIN, COLDSORES, BEDSORES, SORE FEET, BURNS, SCALDS, SUNBURNS, WINDBITE, FROSTBITE, FISSURES OF THE LIPS, EXTERNAL INFLAMMATIONS, BALANITIS, RECTAL IRRITATION, HEMORRHOIDS, POISONOUS SKIN INFECTIONS, INSECT BITES, TO COVER EVERYTHING IN SKIN SURGERY, DERMATOLOGY, OTOLOGY, RHINOLOGY, LARYNGOLOGY, AND PEDIATRICS. Registered Aug. 17, 1926. DESITIN CHEMICAL CO. Renewed Aug. 17, 1946, to Desitin Chemicals Co., Providence, R. I., a corporation of Rhode Island. Class 6.

216,628. **DESITIN.** MEDICAL COMPOUND (OINTMENT) FOR THE TREATMENT OF WOUNDS OF ANY DESCRIPTION, FOR SKIN DISEASES OF ANY DESCRIPTION, SKIN ABRASIONS, BRUISES, ULCERS, X-RAY ULCERS, CARBUNCLES, BOILS, ECZEMA, SORE AND CHAPPED SKIN, COLDSORES, BEDSORES, SORE FEET, BURNS, SCALDS, SUNBURNS, WINDBITE, FROSTBITE, FISSURES OF THE LIPS, EXTERNAL INFLAMMATIONS, BALANITIS, RECTAL IRRITATION, HEMORRHOIDS, POISONOUS SKIN INFECTIONS, INSECT BITES, TO COVER EVERYTHING IN SKIN SURGERY, DERMATOLOGY, OTOLOGY, RHINOLOGY, LARYNGOLOGY, AND PEDIATRICS. Registered Aug. 17, 1926. DESITIN CHEMICAL CO. Renewed Aug. 17, 1946, to Desitin Chemicals Co., Providence, R. I., a corporation of Rhode Island. Class 6.

216,632. **"THE (HEART) OF GOOD-COAL" ETC. AND DESIGN.** COAL. Registered Aug. 17, 1926. BLUEFIELD COAL & COKE COMPANY, Bluefield, W. Va., a corporation of West Virginia. Renewed Aug. 17, 1946. Class 1.

216,773. **SNAP FLY DOPE.** INSECT REPELLANT. Registered Aug. 17, 1926. CHARLES L. HOYT, doing business as Snap Fly Dope Company. Renewed Aug. 17, 1946, to Lottie C. Hoyt, Springfield, Mass. Class 6.

216,826. **REPRESENTATION OF HERCULES.** HIGH-BOILING SOLVENT FOR GUMS AND CELLULOSE ESTERS. Registered Aug. 24, 1926. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed Aug. 24, 1946. Class 6.

216,875. **"SOUTHERN BREAD" ETC. AND DRAWING.** BREAD. Registered Aug. 24, 1926. CAROLINA BAKING COMPANY, Charlotte, N. C. Renewed Aug. 24, 1946, to Columbia Baking Company, Wilmington, Del., a corporation of Delaware. Class 46.

216,919. **REPRESENTATION OF HERCULES.** NITROCELLULOSE. Registered Aug. 24, 1926. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed Aug. 24, 1946. Class 6.

216,920. **HERCULES.** NITROCELLULOSE. Registered Aug. 24, 1926. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed Aug. 24, 1946. Class 6.

216,928. **BARONET.** GLOVES CONSTRUCTED OF LEATHER. Registered Aug. 24, 1926. O. C. HANSEN MANUFACTURING COMPANY. Renewed Aug. 24, 1946, to Hansen Glove Corporation, Milwaukee, Wis., a corporation of Wisconsin. Class 39.

216,942. **NAVA-HUE.** INSIDE GLOVES OF KNITTED, NETTED, OR TEXTILE FABRICS. Registered Aug. 24, 1926. O. C. HANSEN MANUFACTURING CO. Renewed Aug. 24, 1946, to Hansen Glove Corporation, Milwaukee, Wis., a corporation of Wisconsin. Class 39.

216,976. **THERMOID V-G VELVET GRIP.** CLUTCH RINGS, BEING FRICTIONAL PARTS FOR CLUTCH PLATES AND BEING COMPOSED OF ASBESTOS FABRIC. Registered Aug. 24, 1926. THERMOID RUBBER COMPANY. Renewed Aug. 24, 1946, to Thermoid Company, Trenton, N. J., a corporation of Delaware. Class 35.

217,048. **TUFENUF.** COMPOSITION SOLES FOR SHOES AND FOR LEATHER SHOES AND COMBINATION CLOTH AND LEATHER SHOES. Registered Aug. 24, 1926. MELVILLE SHOE CORPORATION, New York, N. Y., a corporation of New York. Renewed Aug. 24, 1946. Class 39.

217,089. **"MARILLYN CREPE" AND DRAWING.** CREPE SILKS IN THE PIECE. Registered Aug. 24, 1926. KLEIN BROTHERS. Renewed Aug. 24, 1946, to Belding Heminway Company, New York, N. Y., a corporation of Connecticut. Class 42.

217,093. **ASHES OF ROSES.** PERFUME, TOILET WATER, TALCUM POWDER, FACE POWDER, SACHET-POWDER, ROUGE, COLD CREAM, AND LIPSTICKS. Registered Aug. 24, 1926. BOURJOIS, INC., New York, N. Y., a corporation of New York. Renewed Aug. 24, 1946. Class 6.

217,188. **"APPLETON BLENDOWN" AND DRAWING.** COTTON PIECE GOODS. Registered Aug. 24, 1926. APPLETON COMPANY, Lowell, Mass. Renewed Aug. 24, 1946, to Appleton Company, Anderson, S. C., a corporation of Massachusetts. Class 42.

217,326. **"POCAHONTAS" ETC. AND DRAWING.** COAL. Registered Aug. 31, 1926. BLUEFIELD COAL & COKE COMPANY, Bluefield, W. Va., a corporation of West Virginia. Renewed Aug. 31, 1946. Class 1.

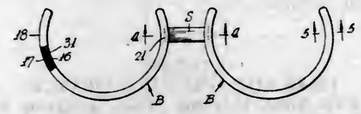
217,440. **"BLACK BEAUTY" AND DRAWING.** FISHING LINES. Registered Aug. 31, 1926. UNITED STATES WHIP COMPANY, doing business as U. S. Line Company, Westfield, Mass., a corporation of Maine. Renewed Aug. 31, 1946. Class 22.

217,530. **CRESTA BLANCA.** CANNED FISH—NAMELY, SARDINES, TUNNY, AND SQUID. Registered Aug. 31, 1926. K. HOVDEN CO. Renewed Aug. 31, 1946, to Hovden Food Products Corporation, Monterey, Calif., a corporation of California. Class 46.

REISSUES

JULY 16, 1946

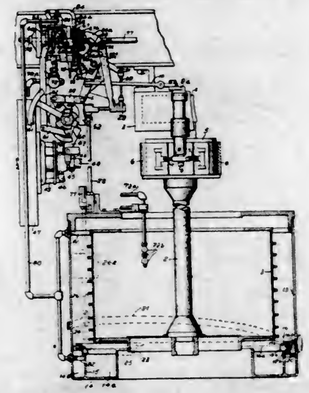
22,771
BRASSIÈRE
Anna Licht, New York, N. Y.
Original No. 2,380,978, dated August 7, 1945, Serial No. 503,181, September 21, 1943. Application for reissue April 18, 1946, Serial No. 663,022
16 Claims. (Cl. 2—42)



1. A brassière of the cup-type comprising arcuate fabric-sheathed stiffening braces, each having a relatively unobstructed longitudinal median passage through the sheaths flanked by elements of said stiffening braces, stitching across said passage connecting the braces to the lower rims of the respective cups, and a strap intervening between the two sheathed braces and secured thereto at its ends.

22,772
CENTRIFUGAL APPARATUS
Eugene Roberts, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah, a corporation of Utah
Original No. 2,145,633, dated January 31, 1939, Serial No. 732,114, June 23, 1934. Application for reissue June 30, 1945, Serial No. 602,605
18 Claims. (Cl. 210—67)

1. Centrifugal apparatus for purging, washing and drying sugar or like material comprising in combination with suitable driving means and a self-setting brake having actuating means including means operative when active to set the brake with a predetermined force, a manually operable shipper mechanism associated with said brake actuating means and having actuating connections with the driving means such that forward movement of the shipper mechanism from an "off" position to a driving position engages said driving means and reverse movement thereof disengages said driving means, cooperating elements connected respectively with said brake actuating means and with said shipper mechanism whereby the latter is moved from its driving position to its "off" position as the brake is set and whereby the brake is moved from its "set" to its "off" position upon forward manual movement of the shipper mechanism from its "off" position, and means rendered operative as



the brake is moved off for releasably holding said brake-setting means inactive, said cooperating elements constructed to be relatively movable while said holding means is operative so that said shipper mechanism then may be moved freely back and forth to disengage and reengage the driving means, whereby after the shipper mechanism is moved forward to unset the brake the brake is held off and the same shipper mechanism may be moved freely in effectuating the unloading, the washing out and the reloading of the centrifugal as desired.

PLANT PATENTS

GRANTED JULY 16, 1946

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

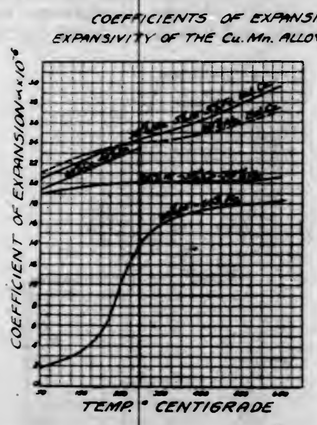
708
LILY PLANT
Frank Wurzlow, Sr., Houma, La.
Application November 5, 1945, Serial No. 626,743
1 Claim. (Cl. 47—60)

The herein disclosed and described variety of Creole Easter lily plant characterized by the fact that each of the leaves has a bordering fringe of white or silver; the stalk is more bushy; it does not grow so tall as the ordinary Creole Easter lily, and as many as six blossoms may be produced upon one plant.

PATENTS

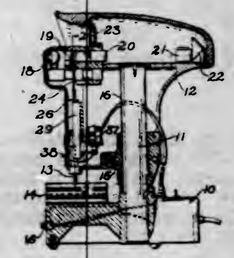
GRANTED JULY 16, 1946

2,403,895
THERMOSTATIC METAL
Clarence F. Alban, Pontiac, and Stanley R. Hood, Birmingham, Mich., assignors to W. M. Chace Company, Detroit, Mich., a corporation of Michigan
Application February 28, 1942, Serial No. 432,832
2 Claims. (Cl. 297—15)



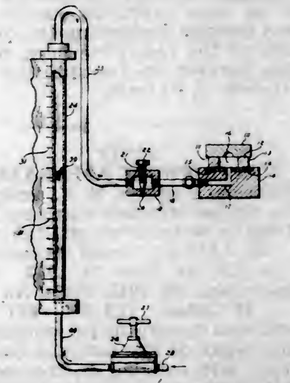
1. Thermostatic metal comprising a plurality of joined metallic laminations, one of said laminations having a relatively high coefficient of expansion and comprising an alloy of the following constituents by weight: manganese from 20% up to 50%, nickel 4% to 20%, balance substantially all copper; the other lamination having a relatively low coefficient of expansion.

2,403,896
GAUGING DEVICE
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application September 13, 1943, Serial No. 502,130
2 Claims. (Cl. 33—147)



1. A gauging device comprising a support, a work supporting base, a work engaging member having an arm rigid therewith, means mounting said member on said support for rectilinear movement towards and from a work position, electromagnetic means carried by said support and including a movable armature operable rectilinearly in a path parallel to the direction of movement of the work engaging member, said armature and arm having portions normally spaced apart and adapted for abutting operation to lift said arm by said armature, and a switch adapted for direct manual operation and carried by said base at a point removed from the work position to energize said armature and thus retract said work engaging member.

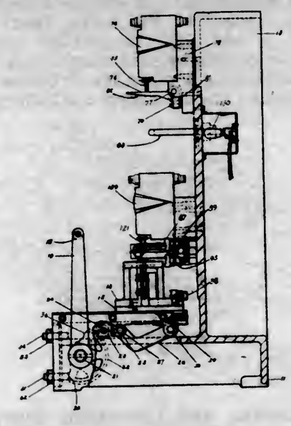
2,403,897
LEAKAGE GAUGING DEVICE
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application June 13, 1945, Serial No. 599,202
3 Claims. (Cl. 73—40)



1. A gauging device for measuring fluid leakage comprising a tube of tapering cross sectional area, means supporting said tube in substantially vertical position with the end of smaller area at the bottom, a pressure control means for supplying fluid under pressure to the lower end of the tube, a gravity actuated float operable along the tube by a flow of fluid through the tube, means providing a leakage orifice in communication with the upper end of the tube to provide a continuous leakage flow such as to cause elevation of the float, and a work connection member having a chamber communicating with the upper end of the tube and adapted for communication with a workpiece for testing leakage flow at the workpiece.

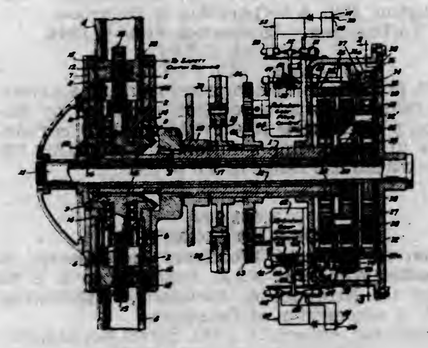
2,403,898
GAUGING DEVICE
Willis Fay Aller and Louis J. Mahlmeister, Dayton, Ohio, assignors to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Original application July 3, 1942, Serial No. 449,568. Divided and this application December 27, 1943, Serial No. 515,694
6 Claims. (Cl. 33—174)

1. Gauging apparatus comprising a support, a work holder movably carried by said support for operation to and from loading and work gauging positions, means for operating said work holder, gauging means carried by said support and including a gauging element adapted to be received in a groove of the work, and stop means adjacent said element and adapted to enter and



be by-passed by such groove if the work is properly mounted on the work holder and blocking the work from gauging position if the work is above a normal position on the work holder.

2,403,899
PROPELLER PITCH AND DIAMETER CONTROL
Francis Du Pont Ammen, Los Angeles, Calif.
Application October 6, 1941, Serial No. 413,741
4 Claims. (Cl. 170—160)



2. In propeller apparatus for aircraft, the combination of a propeller shaft, a propeller hub carried thereby, propeller blades movably mounted on the hub for regulating their pitch and extensible radially from the hub, a planetary gear mechanism adjacent the inner end of the shaft, said planetary gear mechanism including a relatively fixed pitch-control gear and a relatively fixed diameter-control gear, orienting means for adjustably orienting the pitch-control gear forward or back, means actuated by the said orientation at the said planetary gear mechanism for moving the blades to alter their pitch, means for adjustably orienting the said diameter-control gear forward or back, and means connecting the planetary gear mechanism to the blades for extending the same through the medium of said orientation of the said diameter-control gear.

2,403,900
DYE DEVELOPER
George L. Armour, New York, N. Y., assignor to American Aniline Products, Inc., New York. N. Y., a corporation of New York
No Drawing. Application November 29, 1941, Serial No. 420,965
2 Claims. (Cl. 8—48)

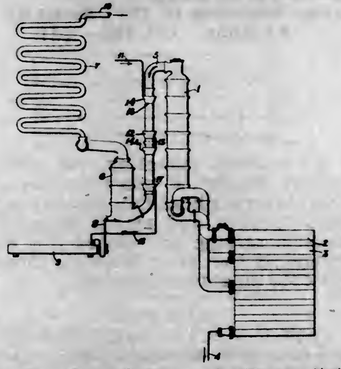
2. The method of developing colors on acetate rayon that consists in treating dyed and diazotized acetate rayon by immersing it in a bath containing a solution formed by adding beta hydroxy naphthoic acid to sodium formate and hot water, said immersion taking place in said solution at a temperature of 35° C. to 40° C., then raising the temperature of the bath to about 60° C. and maintaining this temperature for about thirty minutes, then rinsing the rayon with fresh water and extracting and drying it.

2,403,901
POLYGONAL SEPARABLE SECTION CONTAINER
Albert P. D. Belanger, Alton, Ill.
Application January 7, 1944, Serial No. 517,319
3 Claims. (Cl. 229—27)



2. A polygonal container formed of sheet material and having at least six substantially straight sides and having blind openings leading inwardly at the corners provided by inwardly tucked outwardly open folds into which a cutting blade can be inserted for separating the container into sections, the bottom wall portions of the container being weakened by lines of perforations thereacross from corner to corner with the lines of perforations extended along the inner edges of the inwardly tucked parts for expediting separation of the container into sections.

2,403,902
NITRIC ACID CONCENTRATION
Robert Sterling Bell, Tulsa, and Robert Davenport, Pryor, Okla., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 18, 1943, Serial No. 499,042
4 Claims. (Cl. 23—160)



1. The process of concentrating nitric acid which comprises passing a mixture including nitric acid and a dehydrating agent down through a dehydrating column, driving off therefrom strong nitric acid vapors, conducting the evolved vapors from the top of said tower through a fume

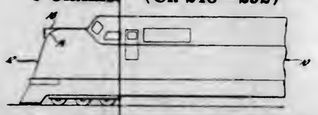
line, said fume line extending downwardly between the top of said column and a bleacher and being of sufficient length to supply a material extent of condensing surface, passing a liquid coolant downward over the exterior of said fume line to condense a portion of said vapors, withdrawing the condensate, liquefying the uncondensed vapors, stripping the undesirable gases from the resulting condensate, and withdrawing same as strong nitric acid.

4. An apparatus for concentrating nitric acid which comprises a dehydrating tower adapted to become heated by hot vapors entering at the base thereof, a bleacher having an outlet therein, a fume line passing downwardly from the top of said tower into said bleacher, a condenser attached to the bleacher, connecting joints in said fume line capable of obstructing the normal flow of a film of cooling liquid down over the exterior of said fume line, collecting vessels above the individual joints adapted to contain the downflowing cooling liquid, distributing vessels below said individual joints, adapted to distribute cooling liquid over said fume line below said vessels, and conduits around each joint connecting each pair of collecting and distributing vessels, whereby efficient cooling of the fume line is promoted.

2,403,903
MANUFACTURE OF PIPERIDINE DERIVATIVES
Franz Bergel, Nathan Chadwick Hindley, Alexander Lang Morrison, and Heinrich Rinderknecht, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application April 8, 1943, Serial No. 482,325. In Great Britain April 27, 1942
7 Claims. (Cl. 260—294)

1. A process for the manufacture of an ester of a 4-arylpiperidine-4-carboxylic acid which comprises heating a 4-arylpiperidine-4-nitrile with a mixture of an alcohol, sulphuric acid and water, the total amount of water being between 0.5 and 2.5 molecular equivalents of the nitrile used, and separating the ester from this reaction mixture after completion of the heating.

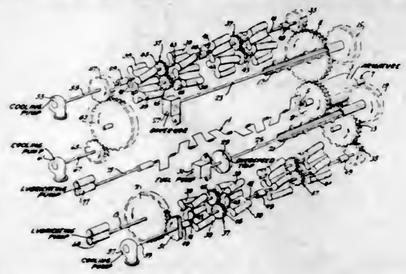
2,403,904
HEADLIGHT MOUNTING
Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 19, 1943, Serial No. 510,982
6 Claims. (Cl. 248—292)



1. In a headlight mounting, the combination of a support bracket, a hinge bracket pivotally connected thereto, a headlight housing secured to said hinge bracket, and means associated with said brackets serving to balance the weight of said housing as the latter is swung downwardly with respect to the support bracket.

2,403,905
ENGINE ACCESSORY DRIVE
William Elmer Brill, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 13, 1942, Serial No. 465,454
4 Claims. (Cl. 123—195)

1. An accessory drive for an internal combustion engine driving an electrical generator comprising a multi-throw engine crankshaft, a generator armature connected to one end of said crankshaft so that a nodal point in the torsional oscillation of said crankshaft is formed as a result of this connection, an engine camshaft operatively connected to the nodal point of said crankshaft, a plurality of engine accessories adapted to be driven by said crankshaft, said accessories comprising a plurality of Roots blowers, speed responsive engine speed controlling means

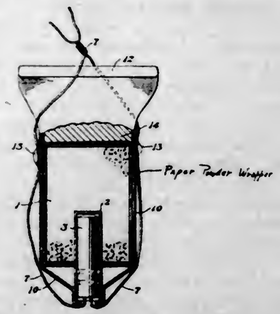


and fuel, cooling and lubricating pumps, said blowers being axially spaced uniformly along side said crankshaft to provide uniform air distribution for said engine, torsionally resilient driving means for said accessories, and angularly adjustable couplings between said blowers and said torsionally resilient driving means therefor so that said blowers may be connected in proper angularly phased relation to suppress the torsional oscillations between said blowers.

2,403,906
TREATMENT OF KERATINOUS MATERIAL
William James Burke, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 6, 1944, Serial No. 539,037
6 Claims. (Cl. 8—127.6)

1. A process which comprises treating a keratinous material with a solution prepared by dissolving a monomeric N-(acylthiomethyl) carbonamide in an alkaline solution and adjusting the pH to within the range of 4.0 to 9.0.

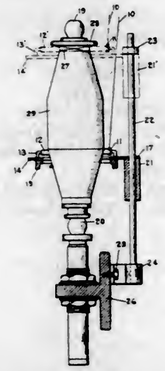
2,403,907
SMOKE POT IGNITER
Lawton A. Burrows, Woodbury, and George A. Noddin, Wenonah, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 12, 1942, Serial No. 454,562
3 Claims. (Cl. 102—70.2)



1. An electric ignition assembly comprising a main charge of black powder in the form of a

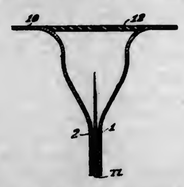
cohesive block, a cavity within said block, a thin metal sheath surrounding said black powder charge and in water-tight relationship therewith, said metal sheath being provided with an internal well projecting into the cavity in the explosive, an electric initiator within said internal well, and a reinforcing additional body of solid material at the side of the black powder charge opposite to that through which the cavity enters, whereby upon initiation the direction of the flame from the black powder toward the side adjacent to the internal cavity is favored.

2,403,908
WINDING APPARATUS
Theodore E. Carlson, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application January 17, 1945, Serial No. 573,158
3 Claims. (Cl. 57—75)



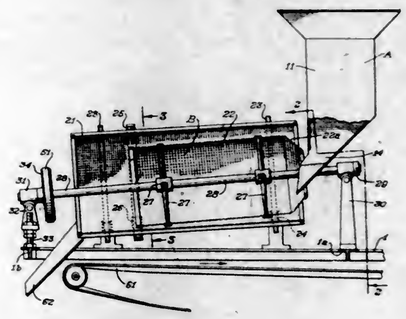
1. In a device for producing yarn packages having a transfer tail, the combination with yarn traversing means, including a ring rail, a plate normally seated on said ring rail, a ring holder on said plate, a spinning ring in said holder and a traveler for winding yarn on a rotating yarn holder, of manually operated means for raising said plate, the ring holder, ring and traveler from said ring rail to a position beyond the normal traverse of said ring holder, ring and traveler with respect to said yarn holder, so as to cause the winding of a relatively small amount of yarn on the yarn holder at a point spaced from the main body of yarn, said small amount of yarn being available for use as a transfer tail.

2,403,909
BROADCAST ANTENNA
Philip S. Carter, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 10, 1941, Serial No. 422,356
19 Claims. (Cl. 250—11)



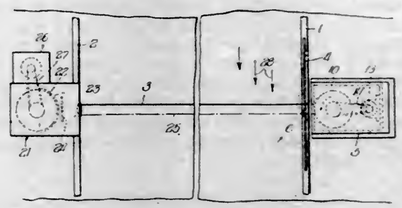
14. A radiant energy transmission system including a hollow wave guide member having a transverse dimension such that propagation of the radiant energy field within said guide may take place without the presence of an inner conductor, said member being flared at one end to such an extent that the field within said guide is free from said system, and said flare being further continued so that the end of said guide is curved back on itself.

2,403,910
FLAKING MACHINE FOR FISH AND THE LIKE
Andrew L. Christiansen, Willowbrook, Calif.
Application March 14, 1939, Serial No. 261,744
23 Claims. (Cl. 146—90)



1. In a machine of the class described, a pair of drums, one of the drums being foraminous and one positioned within and rotatable relative to the other, the lower elemental portion of both drums being inclined downwardly toward one end, said lower portions being transversely adjustable relative to each other to vary their relative angular inclination.

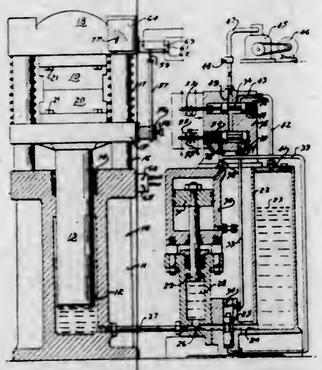
2,403,911
METHOD OF AND MEANS FOR RECORDING
Robert E. Crowley, Baltimore, Md.
Application September 21, 1942, Serial No. 459,078
6 Claims. (Cl. 95—11)



1. The combination with a camera in which a film is moved at a uniform rate of speed past a narrow aperture to record on the film images of objects moving across the narrow band-like field of the camera at right angles to the longer dimension of said field, of a timing device comprising, a stationary frame having an opening disposed in the field of the camera with one edge of the opening coinciding with one edge of the field, a timing means on said frame and visible to said camera only through said opening, means for moving said timing means uniformly in the same direction as and at approximately the same

speed as said objects move across said field, and indicia on said timing means rendered visible through said opening at regular intervals by the uniform movement of the timing means.

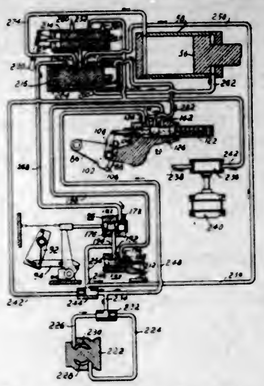
2,403,912
PRESS OPERATING DEVICE
Frank A. Doll, Detroit, Mich., assignor to Link Engineering Co., Detroit, Mich., a partnership composed of Herbert W. Link, Martha F. Link, and Frank A. Doll
Application January 17, 1944, Serial No. 518,523
3 Claims. (Cl. 60—54.5)



2. The combination with a press having a bed moved by a ram in a cylinder to operative position, a reservoir for a liquid, a booster connected to the cylinder and solenoid operated control valves for a source of air, of a control circuit which includes a normally open starter switch, a relay shunting said switch, a normally closed switch in circuit with said relay, one of said solenoid valves also being in circuit with said relay and actuated to connect the air supply to the reservoir the liquid in which moves the bed to operative position, a normally open switch actuated to closed position when the press is moved to operative position, which movement also opens said normally closed switch and deenergizes said relay and first solenoid valve, a second solenoid valve actuated by the closing of said second switch to connect the air to the booster and for disconnecting the cylinder from the reservoir, and a third switch for opening the circuit to the second solenoid which reverses the flow of air on the booster and connects the cylinder to the reservoir to permit the press to quickly return to inoperative position.

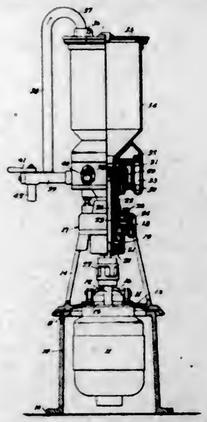
2,403,913
POWER TRANSMISSION
Arthur L. Ellis, Deep River, Conn., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Original application January 14, 1936, Serial No. 59,072. Divided and this application October 4, 1941, Serial No. 413,588
6 Claims. (Cl. 103—38)

1. A control device for a variable displacement pump comprising in combination, means for varying the pump displacement, means for regulating the pump displacement in response to pump discharge pressure variations, and means operated concurrently with the displacement varying means for varying the response of the displacement regulating means to cause it to re-



spond at different pressures in accordance with changes in pump displacement.

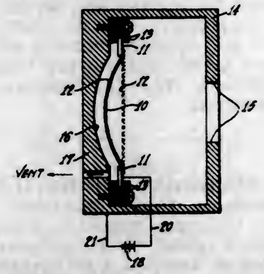
2,403,914
VERTICAL MILL
Edwin G. Eppenbach, Manhasset, and Henry Imshaug, Flushing, N. Y.; said Imshaug assignor to said Eppenbach
Application April 7, 1942, Serial No. 437,979
1 Claim. (Cl. 241—285)



In a colloidal mill, a hollow base having an upper flange arranged to provide a central opening at the top of the base, an open frame structure mounted upon the upper base flange and comprising a dished frame-supporting element overhanging the base and an upwardly tapering open framework connected to the dished element, said dished element having a central opening, a motor with an upwardly extending vertical shaft suspended from the dished element and concentrically aligned in the hollow base with the central opening, an upwardly dished centrally apertured stationary drip guard concentrically aligned with the shaft and spaced above and overhanging the central opening, and attachment means between the drip guard and the frame supporting element for preventing liquid or moisture from entering the base and damaging the motor, the shaft of the motor extending through and above the drip guard, a mill unit surmounted by a feed hopper supported upon the top of the frame structure and including a vertically adjustable disk centrally coupled to a vertically downward-

ly extending shaft, the lower end of the mill shaft being shouldered to form a shaft portion of reduced diameter, a ball bearing unit mounted about the reduced shaft portion with the inner race contacting the shaft shoulder, a bearing cup vertically adjustably mounted within and to the top of the open frame structure and supporting the outer race of the ball bearing unit, a coupling disposed directly above the drip guard and directly below the bearing cup, and operatively connecting the upwardly extending motor shaft and the downwardly extending mill shaft, the bearing cup and coupling being readily accessible due to their location with respect to the open frame work.

2,403,915
APPARATUS FOR DEFORMING THIN DIAPHRAGMS
John Evans, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 15, 1944, Serial No. 522,527
5 Claims. (Cl. 88—74)



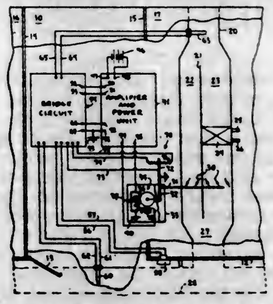
3. In a device of the character stated, a hollow body having a metal wall to form one terminal of an electrical circuit, a transparent membranous diaphragm stretched transversely in spaced relation to said wall, said body having a sight opening located on the opposite side of said diaphragm from said wall and coaxially with respect to said diaphragm, a metallic film on said diaphragm juxtaposed to said wall to form the second terminal of said circuit and also transform the diaphragm into a mirror to reflect a light beam entering said sight opening, and a source of current in said circuit for causing a difference of potential between said terminals, whereby said diaphragm is deformed to assume a datum position.

2,403,916
ALIGNMENT HOLDER FOR DIES
Robert O. Ferguson, Bristol, Tenn., assignor to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application February 21, 1945, Serial No. 579,032
6 Claims. (Cl. 101—28)



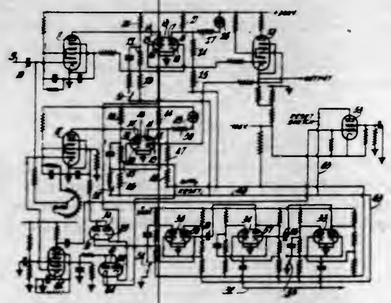
1. A holder for a die or other similar tool, comprising an elongated casing having a longitudinal passage for the entire length of the casing for the reception of a die, an elongated slot extending through an outer wall of said casing to said passage, said slot extending for at least a major portion of the length of said casing, an elongated spring, said spring having a bowed central portion and end portions, said slot having parallel walls, securing means mounting one of said portions on one side of the walls of said slot, another of said portions being located to extend into said longitudinal passage, said portions being adapted to frictionally engage a side of a die locked in said passage whereby to position said die therein.

2,403,917
CONTROL APPARATUS
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 20, 1942, Serial No. 439,673
19 Claims. (Cl. 236—1)



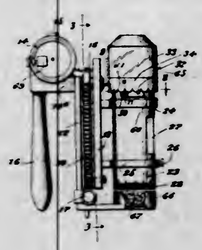
13. Electrical temperature control apparatus for an aircraft, comprising in combination, heat producing means on said aircraft, means for utilizing the flow of air caused by the motion of said aircraft to conduct air into heat exchange relation with said heat producing means, means for controlling the amount of heat transferred from said heat producing means to said air, reversible electrical motor means for operating said heat transfer control means, an electrical resistance element having an appreciable temperature coefficient of resistance and exposed to a temperature indicative of the need for operation of said heat transfer control means, means including said element for producing an alternating electrical signal of a phase dependent upon the direction in which said heat transfer control means needs to be operated, amplifier means for controlling the direction of operation of said motor means in accordance with the phase of said signal, said amplifier means having an input circuit and an output circuit, means coupling said signal producing means and said input circuit, means coupling said output circuit and said motor means, and means for supplying said signal producing means, said amplifier means and said motor means with alternating electrical energy of fixed frequency and predetermined phase relationships, said energy supplying means comprising a transformer having a primary winding and at least three secondary windings, means connecting one of said secondary windings to said signal producing means, means connecting a second of said secondary windings to said amplifier means, means connecting a third of said secondary windings and said motor means, and means including a battery and an inverter for supplying said primary winding with alternating electrical energy.

2,403,918
METHOD OF OPERATING THE ELECTRONIC CHRONOGRAPHS
Igor E. Grosdoff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1943, Serial No. 516,086
5 Claims. (Cl. 250—27)



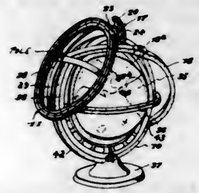
1. The combination of a plurality of input tubes each having input and output terminals, a control tube having a control grid, a multivibrator having a first electron discharge element connected to one of said output terminals and to said control grid and a second electron discharge element, reset means connected to the other of said output terminals and to said second electron discharge element for transferring current from one to the other of said elements, means for applying spaced signals to said input terminals, and means for blocking the second of said signals from said reset means.

2,403,919
PORTABLE ANGLE-MEASURING DEVICE
Frederick H. Hagner, San Antonio, Tex., assignor to Archbold-Hagner Instrument Laboratory, Inc., a corporation of Delaware
Application October 25, 1941, Serial No. 416,570
5 Claims. (Cl. 33—70)



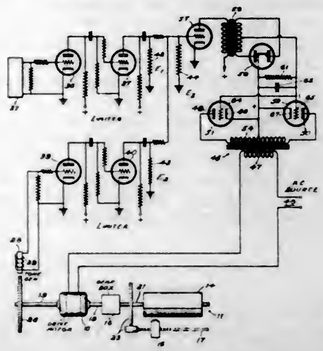
1. An angle-measuring device comprising a carrier, a sight tube fixed on said carrier, a measuring arc fixed on said carrier and having its axis normal to the optical axis of said tube, a hanger pendulously pivoted on said carrier on an axis coincident with the axis of said arc, means on said hanger for recording the true vertical at the time of an observation, a second hanger pivoted on an axis coincident with the axis of said arc, and having indicating means readable on said arc, and a reading device also carried by said second hanger and having indicating means movable into registration with a record made by said recording means.

2,403,920
NAVIGATION AND INSTRUCTION INSTRUMENT
Frederick H. Hagner, San Antonio, Tex., assignor to Position Finder Corporation, San Antonio, Tex., a corporation of Texas
Application November 20, 1942, Serial No. 466,310
5 Claims. (Cl. 35—46)



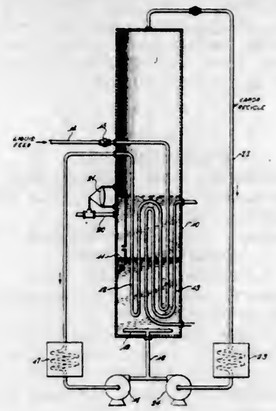
1. An instrument of the class described comprising a support, a declination arc slidable upon said support, a pole located on said declination arc, a removable and replaceable celestial reference means carried by said support, a local hour angle circle rotatable about said pole in a plane at right angles to said declination arc, an azimuth scale carried by the support, and an altitude arc suspended from said support centrally of said celestial reference means and having means moving over said azimuth scale for indicating azimuth of a body observed.

2,403,921
SYNCHRONIZING DEVICE
Henry E. Hallborg, Upper Montclair, N. J., and Charles N. Gillespie, Brooklyn, and Gilbert R. Clark, Staten Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application June 19, 1943, Serial No. 491,538
8 Claims. (Cl. 172—293)



8. A motor speed control system for synchronizing a motor by comparing the relative phase relationship of two alternating current waves of substantially identical frequency and of substantially constant amplitude comprising, means for producing an alternating current wave of a frequency related to the speed of the motor, means for producing a second alternating current wave of synchronizing frequency, the two waves being of substantially identical frequency and of substantially constant amplitude, means for comparing the two waves to produce a resultant alternating current wave having a variable amplitude determined by the phase displacement of the two waves, means for developing a unidirectional pulsating current of varying intensity from the resultant wave, means for developing an average voltage of varying intensity from the unidirectional pulsating current, and means for applying said voltage to produce a resistance effect in the supply circuit of the motor.

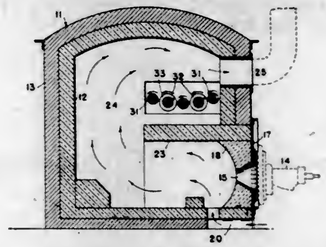
2,403,922
CATALYTIC HYDROCARBON REACTIONS
Wendell P. Hawthorne, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application November 22, 1944, Serial No. 564,629
4 Claims. (Cl. 260—683.4)



1. In a process for synthesizing valuable hydrocarbon products by exothermic reaction of an isoparaffin and an olefin in the presence of liquid hydrogen fluoride, the steps which comprise maintaining a reaction zone containing said liquid hydrogen fluoride under conditions favorable to said reaction such that the products of said reaction will be predominantly liquid and the reactants will be predominantly vaporous, introducing to said liquid hydrogen fluoride a vapor phase feed containing isoparaffin and olefin prepared as hereinafter described to thereby induce said reaction with formation of a liquid product while permitting unreacted material to remain predominantly in the vapor phase, removing liquid hydrocarbons from said reaction zone and recovering the product therefrom, preparing a liquid phase fresh charge mixture containing isoparaffin and olefin, vaporizing and expanding said charge mixture in indirect heat exchange relationship with said liquid hydrogen fluoride to thereby cool said reaction zone, withdrawing vaporous unreacted hydrocarbons from said reaction zone and mixing them with said vaporized charge mixture to form said vapor phase feed and introducing said vaporized feed to said liquid hydrogen fluoride as aforesaid.

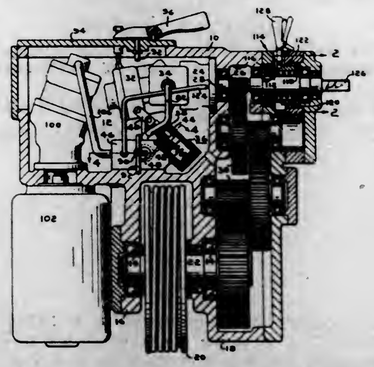
2,403,923
DEVICE FOR PEELING AGRICULTURAL PRODUCTS
George T. Hemmeter, Berkeley, Calif., assignor to the United States of America, as represented by the Secretary of Agriculture
Application June 25, 1943, Serial No. 492,303
2 Claims. (Cl. 99—443)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device for peeling agricultural products, comprising a furnace having a combustion chamber, a furnace ceiling which becomes heated to provide high-temperature radiant heat, and a wall forming a ceiling for the combustion chamber, said wall providing an opening for egress of the combustion gases, and means for conveying products through the furnace and for tumbling them about, thereby to expose all surfaces of the products to the radiant heat under substantially the same conditions of heat ray intensity and interval of time and to heat penetrate the peelings without substantially affecting



the under-surfaces to render the peelings readily removable from the unaffected under-surfaces, said conveying means being located above the wall beside the opening and under the furnace ceiling, said wall acting as a baffle to direct hot gases from the combustion chamber away from the products and against the furnace ceiling, the furnace also having exhaust ducts located near the ceiling above the conveying means to carry off the exhaust hot gases without substantial contact of the gases with the products.

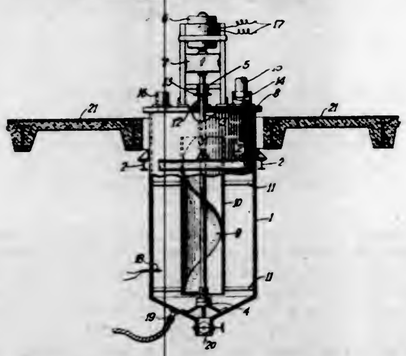
2,403,924
POWER TRANSMISSION
Kenneth R. Herman, James Robinson, and John D. Dietiker, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application September 2, 1939, Serial No. 293,156
8 Claims. (Cl. 254—172)



1. In a device for pulling on an object while subject to varying external forces, the combination of a winch, a variable displacement fluid motor connected to drive the winch, means responsive to motor operating pressure for varying the motor displacement and arranged to increase the motor displacement upon an increase in pressure, means forming a source of pressure fluid for operating the motor, means for selectively controlling the delivery of fluid from the source to the motor to operate the latter in either direction, valve means for selectively connecting the pres-

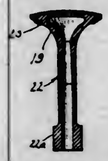
sure responsive means to said source or to exhaust the pressure responsive means, and a common actuator for the delivery controlling means and said valve means.

2,403,925
MANUFACTURE OF SOAP
Martin Hill Ittner, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application July 20, 1940, Serial No. 346,534
14 Claims. (Cl. 252—370)



1. The process of making floating soap which comprises aerating molten soap to a definite desired extent employing a sufficient degree of agitation of said soap while still in a molten state in order to comminute the gas particles to an extremely fine and substantially uniform state of subdivision, applying pressure to the molten soap with a reduction in volume thereof substantially equal to the reduction in volume the same soap would suffer at atmospheric pressure in cooling from the same temperature to its solidifying point, then cooling and solidifying the soap.

2,403,926
SHEATHED VALVE
Paul P. Johnson, Willoughby, Ohio, assignor to Thompson Products Inc., a corporation of Ohio
Application January 24, 1942, Serial No. 428,135
4 Claims. (Cl. 123—188)



1. A poppet valve comprising a metal valve body defining a valve stem with an outwardly flaring neck portion terminating in a valve head of larger diameter than the stem, a thin metal sheath completely covering said head and extending over the peripheral edge of the head, said sheath having an inturned portion underlapping the head to define a valve seat, a metal bond including metal different than the body and sheath metals integrally joining the sheath and body, and a metal bead weld in said neck portion of the body adjacent the head underlapping portion of the sheath sealing the bond metal said metal bead weld being composed of a metal selected from the group consisting of metal forming the valve body and metal forming the sheath.

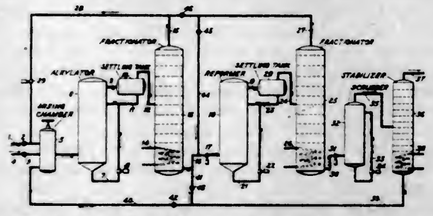
2,403,927
IMPROVERS FOR PHOTOGRAPHIC EMULSIONS
John David Kendall, Douglas James Fry, and James Douglas Brooks, Ilford, England, assignors to Ilford Limited, Ilford, Essex, England, a British company
No Drawing. Application November 12, 1943, Serial No. 510,040. In Great Britain December 3, 1942
21 Claims. (Cl. 95—6)

1. A method of improving photographic silver halide emulsions in regard to the quality of images developed therein, which comprises treating the emulsion, at a stage not later than its development, with a small quantity of a 5-mercapto-tetrazole having in the 1-position thereof a group taken from the class consisting of a hydrogen atom and a hydrocarbon radical.

2,403,928
COMPOSITION
Milton P. Kleinholz, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 9, 1945, Serial No. 609,938
4 Claims. (Cl. 252—56)

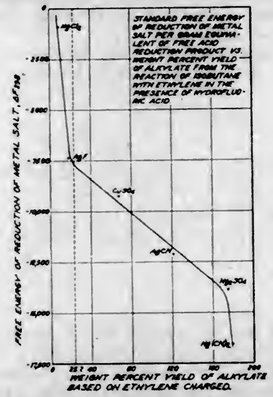
1. An improved mineral oil composition which comprises a petroleum lubricating oil fraction with which there has been compounded a proportion, effective to retard rusting, of a semilactide of the alpha hydroxy aliphatic acid in which the aliphatic radical contains from 10 to 18 carbon atoms.

2,403,929
CATALYTIC REFORMING PROCESS
Carl S. Kuhn, Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 22, 1942, Serial No. 455,775
2 Claims. (Cl. 260—683.4)



1. The process which comprises contacting a mixture of an isoparaffin and an olefin in which the mol ratio of the isoparaffin to the olefin is greater than two to one with an alkylation catalyst consisting essentially of hydrofluoric acid under alkylating conditions of temperature and pressure for said catalyst to form a relatively narrow-boiling alkylate, separating at least a sufficient amount of the isoparaffin from the hydrocarbon product mixture to reduce the isoparaffin-alkylate mol ratio to less than one to one, contacting the alkylate product containing less than one mol of isoparaffin per mol of alkylate with an alkylation catalyst consisting essentially of hydrofluoric acid under alkylating conditions of temperature and pressure to reform said alkylate to higher and lower boiling saturated hydrocarbons, allowing the hydrocarbons and catalyst to remain in contact until the desired amount of the original narrow-boiling fraction has been reformed to give a mixture of hydrocarbons whose boiling range has a desired distribution over the gasoline boiling range, separating the hydrocarbons from the hydrofluoric acid catalyst, fractionating the hydrocarbons to remove saturated hydrocarbons boiling below and saturated hydrocarbons boiling above the desired range, returning the hydrocarbons so separated in admixture for further contacting with the alkylation catalyst, and recovering the desired hydrocarbon fraction of controlled boiling characteristics.

2,403,930
ALKYLATION PROCESS
Carl S. Kuhn, Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1942, Serial No. 459,525
20 Claims. (Cl. 260—683.4)



1. A process for the alkylation of isoparaffins with ethylene which comprises contacting the isoparaffin with the ethylene in the presence of hydrofluoric acid of at least 90 percent concentration and a metallic salt of an inorganic acid whose standard free energy of reduction to metal and non-aqueous acid is more negative than about —8,000 calories per gram equivalent of free acid reduction product, which salts do not form stable double salts with the acid catalyst, and are characterized by being the salt of a metal below hydrogen in the electromotive force series.

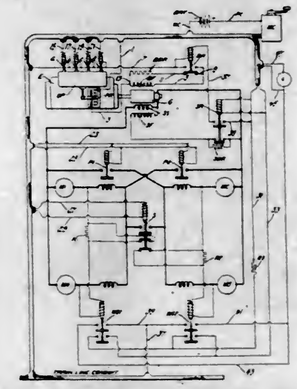
2,403,931
CATALYTIC ALKYLATION PROCESS
Carl S. Kuhn, Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 24, 1942, Serial No. 459,526
8 Claims. (Cl. 196—10)

1. A process for the alkylation of isoparaffins with ethylene which comprises contacting the isoparaffin with the ethylene in the presence of a catalyst comprising concentrated sulphuric acid and a metallic cyanide selected from the group consisting of mercuric cyanide and silver cyanide.

2,403,932
A LOW-FREEZING OXIDANT
Walter E. Lawson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 18, 1943, Serial No. 502,993
2 Claims. (Cl. 252—186)

1. A chemical product consisting essentially of nitrogen tetroxide and from approximately 9 to 50% of nitrous oxide.

2,403,933
GENERATING ELECTRIC DRIVE AND CONTROL SYSTEM
Torsten O. Lilliquist, Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 28, 1944, Serial No. 551,596
6 Claims. (Cl. 105—61)



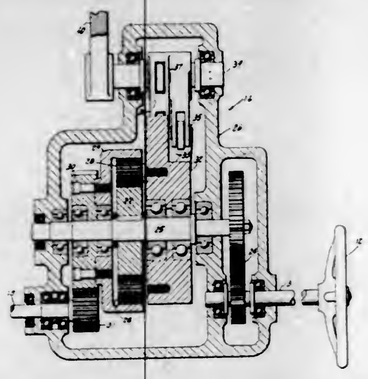
1. A traction system comprising pairs of traction motors, the motors of each pair being electrically connected in parallel, separate means electrically connected between the individual motors of each pair to detect any slight unbalance in electrical conditions and speed therebetween, means for modifying the sensitivity of each of said separate means, and switching means for connecting said pairs of motors in series or parallel power circuit relation and for rendering said sensitivity modifying means operative to change the sensitivity of said separate detecting means upon the establishment of one of said motor circuit relations and for rendering said sensitivity modifying means inoperative upon the establishment of the other of said circuit relations.

2,403,934
BUILDING CONSTRUCTION
Thor G. Lindstrom, Seattle, Wash.
Application August 24, 1942, Serial No. 455,869
2 Claims. (Cl. 20—4)



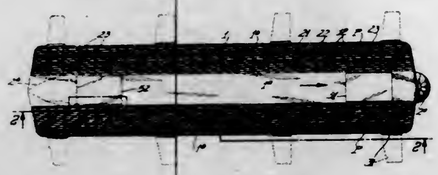
1. In a device of the class described, a wall formed of relatively moist timbers, each provided with a longitudinal V shaped groove, having a base which coincides with the base of the timber and which is rounded at the apex of the groove, disposed in superposed relation and with juxtaposed grooves paired to form in section a rectangular opening with upper and lower rounded corners; and a compressed rectangular and relatively dry key member disposed in said opening characterized in that corners of said key member have been compressed and conform to the configuration of said opening.

2,403,935
STORAGE MOTION FOLLOW-UP MECHANISM
Harry W. Link, Merion, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application June 2, 1943, Serial No. 489,588
3 Claims. (Cl. 74—96)



1. A control mechanism having a plurality of oscillatable cams, a pair of arms respectively engageable with said cams, one of said cams and arms having a neutral position and arranged so as to angularly shift the arms away from their neutral position upon adjustment of the cams, the cam surfaces having provision whereby upon further rotation of the cams they will maintain only a constant relation to the arms and will cause both arms to have engagement with the respective cams at points of contact on opposite sides of a common line intersecting the axes of the cams and arms thereby locking the arms in position against rotation in any direction of movement, a third arm located between the other two arms, and the cams having surfaces shaped so that the third arm and middle arm can function with respect to the cams upon opposite rotation of the cams in the same manner as the first two arms.

2,403,936
AIRCRAFT
Edgar A. Loback, New York, N. Y.
Application March 11, 1944, Serial No. 526,013
11 Claims. (Cl. 244—6)

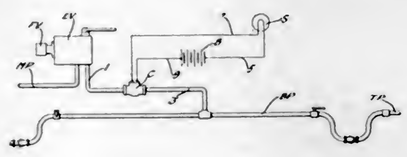


1. In an aircraft, a long fore and aft body, a plurality of propellers located at and spaced from the sides of the body, said propellers being pivotally mounted on axes transverse to the longitudinal extent of the body, means for shifting the rotating axes of the propellers from forwardly to upwardly directed positions, and a horizontal grating positioned above the propellers providing a substantially continuous airplane landing surface from bow to stern of the aircraft and laterally between the laterally outer edge portions of the grating.

2,403,937
TREATMENT OF KERATINOUS MATERIAL
Herbert August Lubs, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 30, 1943, Serial No. 516,285
4 Claims. (Cl. 167—87.1)

1. A process which comprises treating a keratinous material with an aqueous alkaline solution of at least one part by weight, per 19 parts by weight of the keratinous material, of formamidinesulfinic acid.

2,403,938
AIR BRAKE SIGNAL SYSTEM
Albert L. Macan, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 17, 1943, Serial No. 483,516
4 Claims. (Cl. 177—311)



1. An air brake system for a locomotive comprising a source of pressure, a brake pipe, means for controlling the pressure in the brake pipe and flow of pressure to and from the pipe to cause proper application and release of the brakes, said means being connected between the source of pressure and the brake pipe, a signal located adjacent the controlling means, two way pressure flow responsive signal control means connected between the pressure controlling means and brake pipe, said flow responsive control means being adapted to act in response to flow in excess of a predetermined rate necessary to compensate for normal leakage of air from the brake pipe, and control connections between said signal and signal control means to cause operation of said signal to indicate improper and dangerous conditions of leakage from the brake pipe and overcharging of said pipe.

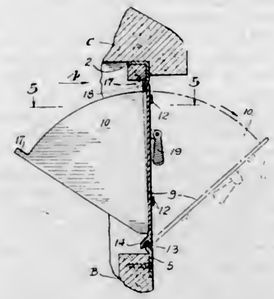
2,403,939
PROCESS FOR TREATMENT OF DOLOMITE AND HIGH-CALCIC LIMESTONES
Walter H. MacIntire, Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a corporation of Maine
No Drawing. Application May 31, 1944, Serial No. 538,207
11 Claims. (Cl. 23—134)

3. The process of making a separation of the calcium and magnesium components of a dolomitic calcine in the form of calcium pentasulfide and magnesium oxide which comprises calcining the dolomite to its constituent oxides of calcium and magnesium, suspending the calcine in an aqueous solution of ammonium sulfide in the proximate proportion of one part of calcine to twelve to fifteen parts of solution by weight, boiling the suspension in a closed system for forty-five minutes or less until the ammonia is liberated completely, filtering and concentrating the calcium pentasulfide solution, and gently calcining the filtered magnesic residuum.

2,403,940
PRODUCTION OF MAGNESIUM THIOSULPHATE AND MAGNESIUM OXIDE FROM DOLOMITE
Walter H. MacIntire, Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a corporation of Maine
No Drawing. Application January 19, 1945, Serial No. 573,624
4 Claims. (Cl. 23—115)

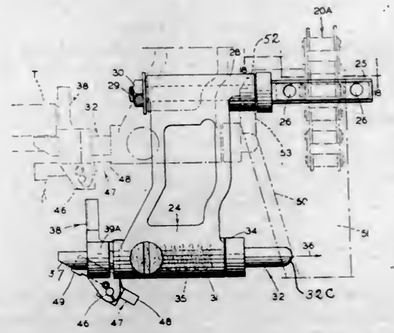
1. A process of treating dolomite which comprises calcining the dolomite to form magnesium and calcium oxides, suspending the calcine in water together with sulphur and heating the suspension to form a solution of calcium pentasulphide, injecting sulphur dioxide into the suspension-solution to convert the pentasulphide into calcium thiosulphate, then treating the suspension-solution with carbon dioxide forming precipitated calcium carbonate in suspension in a solution of magnesium thiosulphate, separating the undissolved material from the solution, and recovering the magnesium thiosulphate.

2,403,941
CHUTE STRUCTURE FOR INCINERATORS
James Todd MacLaren, Los Angeles, Calif.
Application July 11, 1944, Serial No. 544,353
2 Claims. (Cl. 193—34)



1. In an incinerator of the class described having a rectangular door opening, the top of this opening being spanned by a cross bar, said bar having an inwardly and downwardly extending flange across the top of the door, the said opening spanned by a threshold bar at the bottom thereof, said bar having a vertical flange across the opening of the door, an outward extending offset on said upward flange, a door plate covering the entire door opening and resting on the said offset of the said threshold and the top of the said door plate overlapping the bottom of the said flange on the top of the door, an inwardly and downwardly extending flange on the inside and at the bottom portion of the said door plate overriding the said vertical flange on the said threshold which overriding flange together with the bottom portion of the said door plate rests on the said offset of the said threshold to form the hinge for the door: in combination with side plates attached to the side portions of the said door plate and approximating a triangular shape and with their apex ends located at the bottom of the said door plate and extending upwardly therefrom at an approximate angle of forty five degrees and the upper inner corner of said plates extending to a distance above the lower edge of the downward flange of the said cross bar in a narrow projection that when the face plate is rocked about its hinged center to an open angle of approximately forty five degrees, the said projection on the inside corner of the said side plate will contact the inside of the downward flange of the bar across the top of the opening, the top edges of the triangularly shaped pieces having those edges on a radii line around the hinge center at the bottom of the front plate whereby when the parts are assembled the door plate and its side plates will be retained in place, the bottom of the door hinging over the threshold flange and the top of the door retained in place by the curved top of the side plates contacting the bottom of the flange on the cross bar at the top.

2,403,942
STACKING MACHINE
Stephen P. Mathers, Philadelphia, Pa., assignor to National Equipment Co., New York, N. Y., a copartnership
Application February 8, 1945, Serial No. 576,887
5 Claims. (Cl. 214—6)



1. In a machine for stacking objects, a pair of endless conveyor chains which have respective ascending runs which are parallel to each other, said machine having a loading station between the tops and bottoms of said ascending runs, means to actuate said chains in unison, said chains having respective pairs of holders, said holders being directed laterally towards each other between said runs, each said holder comprising a member which is connected to the respective run and movable supporting means which are movable laterally towards and away from the other respective run, the movable supporting members of each said pair being constructed and shaped to hold a respective object intermediate said runs when said supporting means are in operative position, biasing means which bias said supporting means to inoperative position, said machine having automatic setting means which are operative to force said supporting means into operative position below said loading station so that said supporting means pick up said object at said loading station, each said holder having automatic means for maintaining the respective supporting means in operative position, said automatic means comprising a latch which is movably connected to the respective holder, said latch being biased to move into operative position and being moved into operative position when said supporting means are moved to operative position, each said latch being moved to its inoperative position when an upward force is exerted thereon.

2,403,943
SOLDERING MACHINE
John M. McClatchie, Middletown, N. Y., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
Application September 1, 1943, Serial No. 500,783
6 Claims. (Cl. 113—68)



1. In a machine for soldering can ends and the like, a solder roll journalled in spaced bearings, means for applying molten solder to the solder roll, and means for tensioning the portion of the solder roll which lies between said bearings.

2,403,944
ARCH SUPPORT
Charles G. Muller, Elmhurst, Long Island, N. Y.
Application December 13, 1944, Serial No. 567,963
4 Claims. (Cl. 36—71)

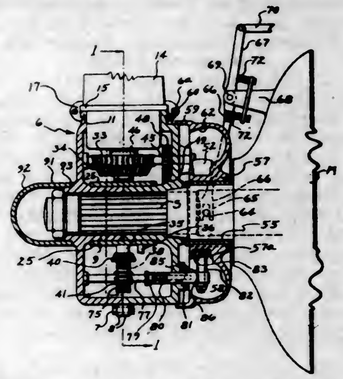


1. An arch support comprising a leather member of substantially semi-circular outline, said member being of the general shape of the arch portion of a human foot, a metal plate of the same general outline and shape as said memebr, but smaller than said member, and secured to the concave side of said member, an elongated adjusting spring member secured to said metal plate, said spring member being provided at each of its ends with elongated longitudinally arranged slots, an elongated block having transverse grooves therein, said block being secured to said spring member intermediate the length of the spring member, said block being positioned between the spring member and the metal plate, and a detent member secured to said metal plate at one end and operatively engaging said block at the other end.

2,403,945
MILDEWPROOFING
David M. Musser, Orange, N. J., assignor to Pacific Mills, Boston, Mass., a corporation of Massachusetts
No Drawing. Application January 27, 1944, Serial No. 519,951
7 Claims. (Cl. 117—138.5)

1. A mildewproofed fibrous material rendered resistant to mildew by the presence therein of a relatively water-insoluble ortho hydroxy diphenyl compound containing an acyl group, said acyl group containing an alkyl group and being directly attached to the oxygenated ring of the diphenyl, said acyl group being in a position other than the ortho position in relation to the hydroxyl group of the diphenyl compound.

2,403,946
PROPELLER
Hazlehurst R. Noyes, Los Angeles, Calif.
Application March 7, 1944, Serial No. 525,382
6 Claims. (Cl. 170—163)

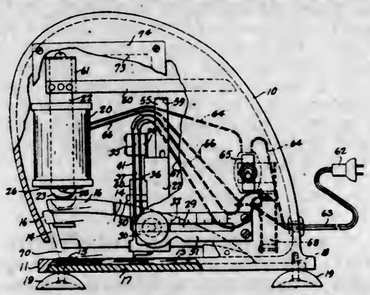


1. A propeller comprising in combination with an object being propelled, a drive shaft carried by the object, a hub secured on the drive shaft to rotate therewith, a blade longitudinally slidably mounted in and projecting radially from the hub, screw means in the hub longitudinally threadedly engaging the inner end of the blade, said screw means being rotatable relative to the blade whereby to effect longitudinal sliding movement of the blade relative to the hub, and means for so rotating said screw comprising a collar non-rotatably carried by the object for sliding movement towards and away from the hub, said collar presenting oppositely disposed concentric annular friction surfaces, a shaft journaled in the hub, a friction roller secured on the last-named shaft in position to be selectively engaged by the respective friction surfaces of the roller, a gear secured on the screw, gear means operatively connecting said last-named shaft to the last-named gear, manually controlled means operatively associated with the collar to slide the collar towards and away from the hub, whereby to selectively engage said friction surfaces with the friction roller, and means for arresting rotative movement of the screw after a predetermined number of revolutions thereof, comprising a gear operatively connected to the last-named shaft, a shaft to which the last-named gear is secured, said last-named shaft being threaded at one end, a nut threadedly mounted on the threaded end of the last-named shaft, a slide bar having lost motion engagement with the nut, and means on the slide bar adapted to engage the collar and slide the latter relative to the hub.

2,403,947
ELECTRIC FASTENER DRIVING MACHINE
James J. Oussani, Brooklyn, N. Y.
Application May 19, 1944, Serial No. 536,296
8 Claims. (Cl. 1—3)

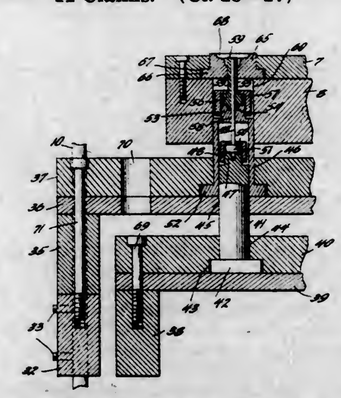
1. An electrically operated fastener driving machine comprising a housing, a fastener driving device mounted in the housing including fastener driving means and a movable member for operating it, electrical means for operating said device comprising a solenoid mounted over the device provided with an armature plunger engaging said member, a carrier, one side wall of the housing being provided with an elongated slot, means for mounting the carrier including means extending through the slot permitting adjustment of the carrier to different positions along the slot and

a hand grip on said latter means for clamping the carrier in adjusted positions, a control switch for the electrical device mounted on the carrier, a movable abutment mounted on the carrier adapted to be shifted by the articles to be oper-



ated upon as they are inserted to fastening position, means operated by shifting of the abutment to close the switch to operate said electrical means, and means operated by the electrical means to cause opening of the circuit to prevent continued operation.

2,403,948
METHOD OF AND APPARATUS FOR DEEP HOLE MOLDING
Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application June 30, 1944, Serial No. 542,962
11 Claims. (Cl. 18—17)



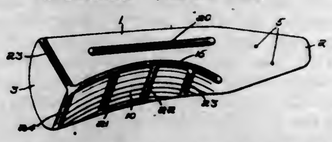
7. In combination with a press for molding plastics, having a plurality of upper and lower dies; headers located on the opposite sides of the press, knock-out bars supported on said headers, ejector mechanisms supported by said knock-out bars, and movable into and out of the lower dies, knock-out posts, the said headers secured near their opposite ends to said knock-out posts, means for elevating the knock-out posts with relation to the lower dies to actuate the headers, cross-bars and ejector mechanisms; additional headers also located on the opposite sides of the press, molding-pin bars and molding-pin mechanisms supported on said last mentioned headers, the said molding pins slideable in said ejector mechanisms also adapted to be projected within said dies, and means carried by the said knock-out posts to project said molding pins into the said die cavities after the dies are closed, the molding pins and ejectors also operated in unison by an elevation of said knock-out posts as the headers and dies approach their fully opened position.

10. A method of deep hole molding a solid article which consists in first subjecting a charge of fusible plastic material to heat and pressure in separable molding dies at least one of which has a cavity therein to reduce the charge to its fluid state, then slideably projecting a molding-pin of relatively small diameter into the material while in the fluid state, not wholly therethrough, but for a distance substantially four times as great as the diameter of the pin, to thus form the bore and densify the plastic material, then curing the plastic material while the molding-pin remains in its projected position, then parting the dies and retracting the molding-pin whereby the article remains in the cavity in one of said separable dies, then projecting a support for the molded article separate from said pin into the die containing said article to partially raise the molded article from the die cavity and at the same time support the same, and finally removing the finished article from its support.

2,403,949
RECOVERY OF PURE 3-PICOLINE
George Riethof, Mount Lebanon, Pa., assignor to Pittsburgh Coke & Chemical Company, a corporation of Pennsylvania
No Drawing. Application June 30, 1944, Serial No. 543,055
6 Claims. (Cl. 260—290)

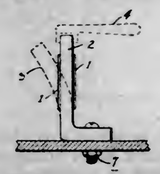
1. A process for the recovery of pure 3-picoline from basic oil mixtures containing 3-picoline and possessing a boiling point of 140–147° C., which comprises reacting said oil mixture with ketene and thereafter separating unreacted 3-picoline from the reaction mixture.

2,403,950
SHANK STIFFENER
Nathan Rosenthal, Newton, Mass.
Application February 28, 1945, Serial No. 580,191
2 Claims. (Cl. 36—76)



1. A metal shank stiffener of the kind described, comprising a longitudinally curved portion and a laterally extending concavo-convex side portion, said side portion being formed in a divergent line or curve from the longitudinal curve, the side portion being reinforced.

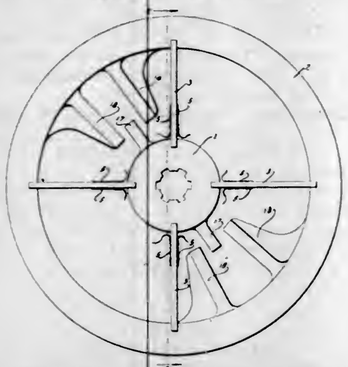
2,403,951
VARIABLE RESISTOR
Arthur C. Ruge, Cambridge, Mass., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,765
10 Claims. (Cl. 201—63)



1. A variable resistor comprising, in combination, a plastic member formed of material subject

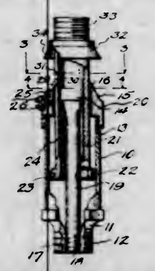
substantially entirely to plastic deformation upon application of an external force thereto, and electrical impedance means secured to said member and whose impedance is subject to change upon deformation of said member, whereby said member when deformed by said force to a desired extent for producing a given change of impedance will of itself without the external force and solely by reason of its plastic deformation retain a permanent set deformed position substantially identical to that which was obtained by application of said force and thereby hold the impedance change which was brought about by said force.

2,403,952
TORQUE METER
Arthur C. Ruge, Cambridge, Mass., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application September 2, 1944, Serial No. 552,526
3 Claims. (Cl. 73—136)



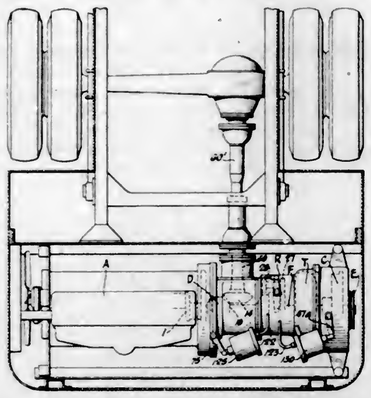
1. A torquemeter comprising hub and rim members, flexible spokes connecting said members together to allow relative angular movement between said hub and rim members in accordance with the torque transmitted between the same, and strain responsive means secured to said flexible spokes so as to be responsive to surface strain induced therein by torque transmitted therethrough.

2,403,953
LAWN SPRINKLER
Harry A. Scherrer, San Diego, Calif.
Application June 29, 1945, Serial No. 602,321
2 Claims. (Cl. 299—61)



1. A sprinkler assembly of the class described comprising a hollow body adapted to be connected to a water supply, a hollow plunger slidable in said body adapted to support a sprinkler head, said plunger having a longitudinally extending key slot formed therein, the body having a portion provided with a channel formed therein and registering with the slot in said plunger, a key member secured to the body and fitting snugly in said channel and lying flush with the outer face of the body, an extension carried by the key and fitting snugly in said slot in said plunger and lying flush with the outer face of the plunger, said extension holding said plunger against rotation relative to the body and providing a sealing and scraping means for said slot to prevent debris from passing longitudinally of said slot beyond the key and also providing means for scraping debris from said slot.

2,403,954
TURBODRIVE AND CONTROL
Hans O. Schjolin, Pontiac, Mich., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application February 9, 1938, Serial No. 189,596. Divided and this application February 9, 1939, Serial No. 255,497
22 Claims. (Cl. 74—189.5)

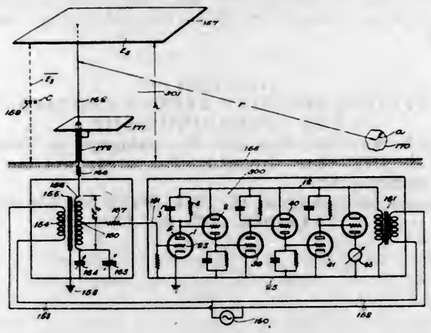


1. In a power transmission assembly, for motor vehicles in combination, a power shaft, a fluid turbine torque-multiplying transmission mounted to rotate concentrically with said shaft, a clutch device connecting said transmission with said shaft, operating means for said device, a power receiving shaft concentric with said power shaft, a gearing unit arranged to transmit reverse geared drive between said transmission and said power receiving shaft and to couple them directly, a load shaft arranged at right angles intersecting the centerline of said power shaft and said power receiving shaft, and a drive coupling consisting of a jaw clutch adapted to drive said power receiving shaft directly from said power shaft located adjacent the intersection of said centerline with said load shaft.

2,403,955
ELECTRON TUBE CIRCUIT
Kurt Schlesinger, West Lafayette, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application May 11, 1943, Serial No. 486,521
34 Claims. (Cl. 177—352)

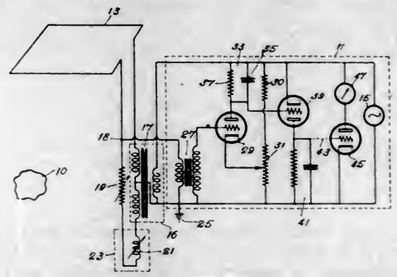
23. An electrical apparatus comprising an electrode element positioned in predetermined spaced relationship relative to ground, an electron tube circuit including a plurality of thermionic tubes

connected in series cascade with the output of one tube being connected to the input of the succeeding tube of the cascade, an energy storage circuit connected with each tube of the cascade and arranged to be charged in accordance with the current flowing in the associated tube, a source of alternating current, means for connecting said tubes of the cascade alternately to the source of alternating current in a polarity such that the plurality of tubes of the cascade is divided into two alternately operative groups, a transformer for supplying the energy of the alternating current source and having its secondary winding connected between the first named electrod element and ground to develop an electrical field therebetween of predetermined magnitude, capacity means connected serially with the transformer secondary winding and ground to provide a balanced bridge connection of which an intermediate point on the said transformer winding is normally at a predetermined equilibrium potential relative to ground, means for biasing the said tube cascade relative to ground to a predetermined voltage whereat a predetermined normal current flows through the cascade in sequential steps from one to another of the tubes thereof, and a connection from the input circuit of the first of the tubes of the cascade to the said equilibrium point, whereby disturbing conditions tending to alter the capacity between the electrode member and ground produces an unbalance of the bridge and a signal voltage is applied to the said cascade and a load circuit connected to receive the energy output of the said cascade and to produce an indication of the magnitude of the departure from equilibrium value of the voltage across the said bridge.

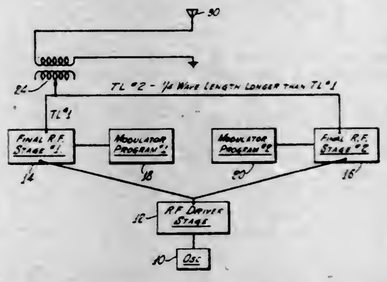


2,403,956
STORAGE AMPLIFIER CIRCUIT
Kurt Schlesinger, West Lafayette, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application May 11, 1943, Serial No. 486,522
29 Claims. (Cl. 177—352)

1. An electron tube circuit comprising a plurality of cascade connected rectifier devices, a source of alternating current for supplying operating voltages for said rectifier devices with alternate tubes of the cascade being connected to be energized in alternate polarity so as to form the cascade into two groups of alternately conductive rectifier devices, an energy storage circuit connected to each rectifier to receive an electrical charge built up in accordance with the output current flow through the individually connected rectifiers, inductive loop means, means for connecting the said source of alternating current to said inductive loop means to develop an electro-magnetic field relative thereto and within a reaching distance thereof determined by the supply of alternating current, means to initiate a current flow in the first rectifier of the cascade in accordance with the presence of bodies coming within the reaching range of the effect of the developed electro-magnetic field, a direct connection from the output of each rectifier of the cascade to the input of the next succeeding rectifier to control in sequence the current flow in the rectifiers and the charge stored in the associated storage circuit under the influence of the first stored charge from the first of the rectifiers to the last of the cascade at each half-cycle of the supplied alternating current, and a load circuit connected to receive the energy output of the last rectifier of the cascade sequence.

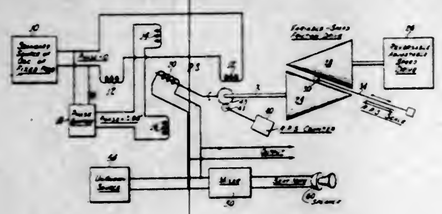


2,403,957
MULTIPLE PROGRAM SYSTEM
Stuart W. Seeley, Roslyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 29, 1942, Serial No. 460,040
12 Claims. (Cl. 179—15)



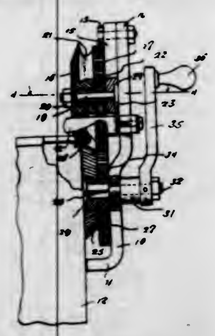
4. The method of signalling by means of carrier wave energy and at least two currents corresponding to different signals which includes the following steps, modulating portions of said carrier wave of like phase in accordance with the respective currents, transmitting said portions in phase displaced relation as a new carrier, receiving said new carrier, subjecting the carrier to an amplitude demodulation process and to a frequency demodulation process, combining output resulting from the frequency demodulation process in relatively phase advanced relation with output derived from the amplitude demodulation process to derive one of said two currents, and combining output derived from said frequency demodulation process in relatively phase retarded relation with output derived from said amplitude demodulation process to derive the other of said two currents.

2,403,958
WAVE PRODUCING AND WAVE FREQUENCY MEASURING DEVICE
Stuart W. Seeley, Roslyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 13, 1942, Serial No. 465,428
9 Claims. (Cl. 250—39)



1. In an arrangement of the nature described, a source of wave energy the frequency of which is unknown, a source of oscillations of fixed known frequency, connections to said source of oscillations for producing a field having components at right angles to each other, a winding in said field, driving mechanism for rotating said winding in either direction to thereby set up in said winding current of the frequency of said source plus or minus the rate of rotation of said winding, a stage for beating said wave energy against said current and means for adjusting the rate of rotation of said winding.

2,403,959
CAN OPENER
Parker T. Simmons, San Francisco, Calif.
Application August 25, 1944, Serial No. 551,151
3 Claims. (Cl. 30—15)

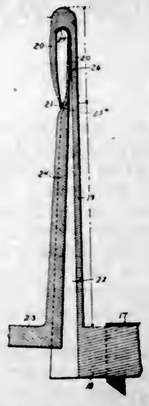


1. In a can opener, a vertical rigid bar including an abutment to be engaged by the side of a can, means for supporting said bar, a lever pivoted on said bar above said abutment, a rotary cutter and gear having driving connection with each other journaled on said lever, a shaft journaled on said bar between said abutment and said lever, a feed wheel and gear secured on said shaft with the latter-named gear meshable, the first named gear being placed in mesh with the last named gear when said lever is swung downwardly to force the cutter into cutting engagement with the top of the can, a crank handle secured to said shaft, and an arm secured to the bar and including stop portions, one of which is adapted to be engaged by the lever in its lowered position and the other by the can.

2,403,960
ANTISTATIC TREATMENT OF VINYL RESIN ARTICLES
William N. Stoops, South Charleston, W. Va., and Alexander L. Wilson, Sharpsburg, Pa., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application April 10, 1943, Serial No. 482,622
12 Claims. (Cl. 117—139.5)

1. The process for reducing the tendency of filaments, fibers, yarns, fabrics and other articles comprising a resinous polymerization product of at least one vinyl compound including a vinyl halide to accumulate charges of static electricity, which comprises applying to the surface of such an article a liquid composition containing, as an essential anti-static component, at least one water-dispersible compound having a polyalkylene polyamine nucleus, said nucleus having an average molecular weight of at least 300.

2,403,961
KNITTING MACHINE NEEDLE AND MEANS FOR OPERATING SAME
Roy C. Amidon, Reading, Pa., assignor to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application August 18, 1944, Serial No. 550,061
16 Claims. (Cl. 66—86)

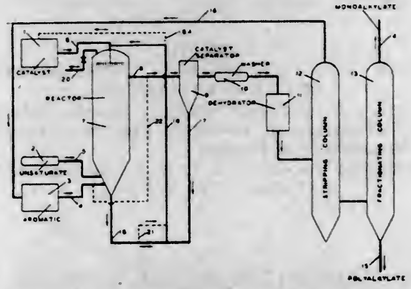


15. A knitting machine needle having a shank and a hook, the point of the hook being spaced from the shank a distance sufficient to provide a thread passage; a tongue having a shank and a hook-closing portion, one end of said tongue being anchored in the hook, said tongue being adapted to lie adjacent the shank of the hook when said thread passage is open and having a recess to receive the point of the hook when the thread passage is closed.

2,403,962
METHOD FOR TREATING STYRENE
Làszló Aüer, South Orange, N. J.
No Drawing. Application October 12, 1942, Serial No. 461,798
7 Claims. (Cl. 260—91)

1. In the treatment of styrene to modify the properties thereof, the process which comprises incorporation in the styrene from 0.5% to 10% of an inorganic salt, which is a member of the class consisting of sodium bisulfite, sodium sulfate and sodium bisulfate, to promote the solidification of the styrene which would tend to take place under the treatment conditions applied, and heating the mixture above 100° C. but not above the point at which appreciable distillation or decomposition, whichever is lower, takes place under the conditions of the treatment, the heating being continued until the material produced is appreciably harder than the same material heated to the same temperature and under the same conditions but without a modifying agent.

2,403,963
ALKENYLATION PROCESS
William Nelson Axe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 3, 1942, Serial No. 433,192
3 Claims. (Cl. 260—671)



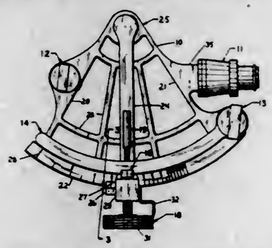
1. A process for the reaction of benzene with butadiene to produce phenyl butenes, which comprises intimately contacting a hydrocarbon mixture comprising a major proportion of benzene and a minor proportion of butadiene with an alkylation catalyst comprising hydrated boron fluoride containing from about 1.0 to about 1.5 mols of water per mol of boron fluoride while maintaining a reaction temperature within the range of from about 70° F. to about 120° F. and a reaction pressure and recovering from effluents of said reaction as a product of the process a hydrocarbon fraction which consists mainly of phenyl-butenes.

2,403,964
SURFACE COATING FOR PACKAGING POLYMERS
John H. Bannon, Union, and Harvey N. Mims, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 9, 1942, Serial No. 468,424
3 Claims. (Cl. 260—23)

1. An improved liquid coating composition for containers to prevent adherence thereto of tacky high molecular weight hydrocarbon polymers consisting essentially of 0.1 to 0.2 part by weight of a low temperature copolymer of an iso-monoolefin and a diolefin, 0.8 to 0.9 part by weight of petroleum wax, 0.5 to 2 parts by weight of zinc stearate and 4 to 10 parts by weight of a light petroleum naphtha.

2,403,965
STADIMETER
Thomas O. Brandon, United States Navy
Application October 30, 1943, Serial No. 508,311
1 Claim. (Cl. 88—2.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In a stadimeter, a main frame having a circular arcuate side; a horizon mirror mounted in relatively fixed position on said frame; an eyepiece fixed to said frame in alignment with and spaced from said horizon mirror; a curved index arm mounted on said frame for pivotal movement about an axis adjacent one end of said arcuate side, said index arm being adjacent to said arcuate side and substantially concentric with said arcuate side when in operating position; an index mirror mounted on said index arm substantially at its pivotal mounting; a second arm mounted on said frame for pivotal movement about an axis coinciding with the center of said arcuate side, the other end of said arm slidably



engaging said arcuate side; clamping means to fix said second arm against rotation; screw means mounted for radial movement on said second arm to rotate said index arm about its pivot; a slide member universally connected to said screw means and engaging the lower edge of said index arm; a spring-biased member on said second arm opposed to the slide member to urge the index arm resiliently against the slide member; and scale means to indicate the positions of said arms with respect to said frame, including graduations on said arcuate side, a graduated drum on the outer end of said screw means, and indicating means on said second arm.

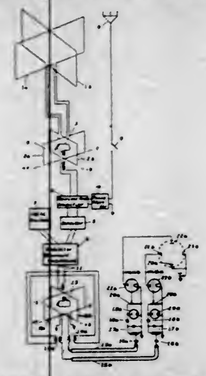
2,403,966
POLYMER SLURRY PROCESS
John R. Brown, Jr., Westfield, and Irving E. Lightbown, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 14, 1942, Serial No. 461,986
8 Claims. (Cl. 260—8)

1. In a polymerization process in which a major quantity of an isoolefin of 4 to 8 carbon atoms is polymerized with a minor quantity of a diolefin of 4 to 12 carbon atoms at a temperature of from —20° to —160° C., by means of a solution of a Friedel-Crafts catalyst dissolved in an alkyl halide which is liquid at polymerization temperatures, the step of conducting the polymerization in the presence of an inert deflocculating agent, then separating the polymer in a dispersed form from the polymerization mixture, slurrying the polymer in water, and maintaining it in a dispersed form after polymerization by the action of the deflocculating agent.

2,403,967
RADIO DIRECTION FINDER
Henri G. Busignies, Forest Hills, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 27, 1941, Serial No. 380,759
20 Claims. (Cl. 250—11)

7. A radio direction finder comprising a constantly rotating member, pick-up means for deriving from an incoming radio wave a radio fre-

quency signal varying in amplitude in dependence on the direction of said wave and the rotation of said member, means for detecting said radio frequency signal to yield a detected signal, means for producing a carrier modulated in accordance with said detected signal means for dividing said modulated carrier into two components, a cathode ray oscillograph at a point re-



mote from said modulated carrier producing means, said cathode ray oscillograph including two deflecting systems, means for transmitting said two components of said modulated carrier frequency to said remote point, and means for energizing said two deflecting systems in accordance with said two component signals transmitted to said point.

2,403,968

TUBULAR LAMP MOUNTING

Charles E. Dansereau, Lakewood, R. I., assignor of one-half to Harry M. Burt, Narragansett, and one-half to Guy H. Burt, Cranston, R. I.

Application December 16, 1942, Serial No. 469,227

23 Claims. (Cl. 173—328)



1. A socket member for mounting on a support member a lamp having at least one contact pin at each end thereof, said socket member having at least one recess to receive a pin at one end of the lamp, said recess extending inwardly of said socket member from a face thereof, a contact member carried by said socket member and disposed so as to engage a pin in said recess, means to mount said socket member for free pivotal movement on said support member so that said recess can be swung toward and away from said pin, and means to resiliently bias said socket member toward said lamp, said recess being remote from the axis of pivotal movement of said socket member and on the side thereof on which the lamp is disposed.

2,403,969

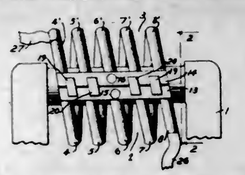
SPLIT INDUCTION COIL FURNACE

Jacob H. Fiedel-Beck, Dorchester, Mass.

Application March 10, 1943, Serial No. 478,634

3 Claims. (Cl. 219—13)

1. An induction furnace comprising a helical cylindrical coil split along the axis of the coil forming two parts, the parts being formed as segments of hollow conductive turns sealed off along the split portions, inlet and outlet means adjacent the split ends for supplying cooling fluid to cir-



culate through the hollow conductive members, and means mechanically and electrically joining the two parts at their split ends for permitting current to circulate through the helical turns of the coil.

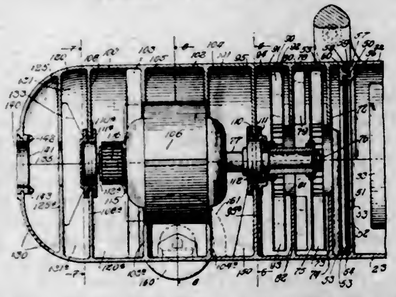
2,403,970

SPLIT CAST CYLINDRICAL HOUSING FOR SUCTION CLEANERS

Edward A. French and George Sporney, Chicago, Ill., assignors to Birtman Electric Company, a corporation of Illinois

Application November 2, 1944, Serial No. 561,538

7 Claims. (Cl. 183—36)



1. In a suction cleaner, a cast housing centrally and horizontally split into upper and lower housing members and subdivided longitudinally into a dust chamber at one end of the housing, a fan chamber, and a motor chamber; there being an air inlet through the housing to the dust chamber and an air outlet through the housing communicating with the motor chamber; a pair of split transverse vertical walls in the motor chamber integral with the cast housing and each of said split walls having a central opening defining a seat for a bearing of an electric motor.

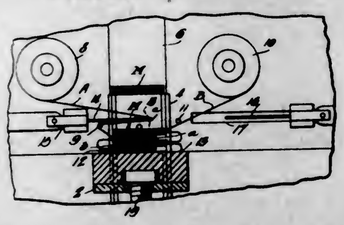
2,403,971

METHOD OF MAKING MICA CAPACITORS

Joseph A. Fried, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1941, Serial No. 386,133

3 Claims. (Cl. 270—32)



1. The method of making an automatically stacked capacitor which comprises forming, in a

continuous strip of metal, a plurality of folds each one having two outer faces and a pair of inner faces which lie contiguous to each other throughout the greater portion of their lengths, depositing a dielectric element of larger area than said folds and located with three side margins upon an outer face of each one of said folds, forming a similar number of folds in another strip of metal which alternately extend in from an opposite side of said first mentioned folds and alternately depositing a similar dielectric element with three similar side margins upon an outer face of each one of said folds which are located opposite said first mentioned folds.

2,403,972

PROCESS FOR EXTRACTING AN AROMATIC HYDROCARBON FROM A MIXTURE CONTAINING OTHER HYDROCARBONS

Bernard S. Friedman, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 20, 1943, Serial No. 487,806

15 Claims. (Cl. 260—674)

1. A process for extracting an aromatic hydrocarbon from a mixture additionally containing other hydrocarbons but relatively free of olefins which comprises contacting said mixture with a separating agent prepared by dissolving a silver compound selected from the group consisting of silver sulfate, silver oxide and silver carbonate in sulfuric acid and then reacting the resulting mixture with a hydrocarbon to produce a final mixture containing the silver compound, sulfuric acid and a sulfonic acid.

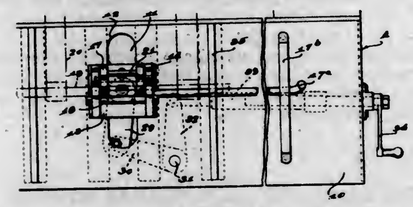
2,403,973

MATERIAL SPREADER HITCH

Charles L. George and Robert N. Bennett, Findlay, Ohio, assignors to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio

Application February 26, 1944, Serial No. 523,972

1 Claim. (Cl. 280—33.15)



A hitch for material spreaders comprising in combination with a spreader body having a vertically elongate slot curved at the top and bottom ends, an annular disc fitting said slot and slidable vertically therein, a back plate abutting said disc and disclosed on the inside of said body, a latch housing on the outside of said body and arranged adjacent said disc, a bolt and nut assembly common to said latch housing, disc and back plate for holding such assembly rigidly together, vertical guide plates fixed to the inside of said body on opposite sides of and in guiding relation to said disc, said back plate extending laterally beyond opposite sides of said disc in abutting relation to said guide plates respectively, link and lever means for vertically adjusting said latch housing, disc and back plate assembly, a movable latch in said latch housing, manual means for actuating said latch, a horizontally disposed bar fixed to the towing vehicle, and engageable in said latch housing, said bar projecting a substantial distance on opposite sides of said latch housing, and brace bars on the outside of the spreader body wall in position to be engaged by the projecting end portions of said bar respectively when the spreader is out of alignment with respect to the towing vehicle.

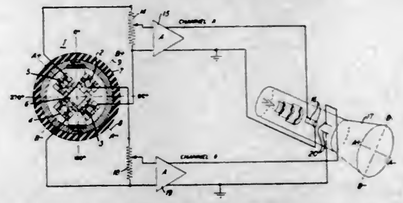
2,403,974

SYSTEM FOR LOCATING THE SOURCE OF AN EXPLOSION WAVE

Walter D. Goodale, Jr., Convent Station, N. J., Benjamin F. Lewis, Bayside, N. Y., and William H. Martin, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 28, 1943, Serial No. 515,886

2 Claims. (Cl. 177—352)



1. Apparatus for locating the source of an explosion wave comprising at least two inertia type pressure gradient microphones mounted on a common support with their axes of sensitivity in quadrature, a shell enclosing the microphones and means for producing a directional indication in accordance with the magnitudes and polarities of the outputs of the microphones produced by the first pulse of the wave produced by the explosion.

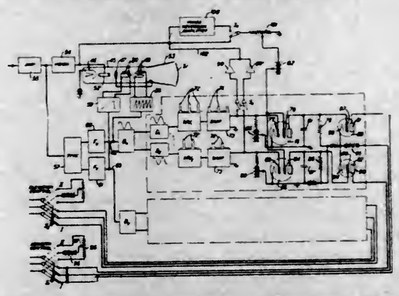
2,403,975

AUTOMATIC FOLLOWING SYSTEM

Robert E. Graham, Bronx, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 24, 1941, Serial No. 412,074

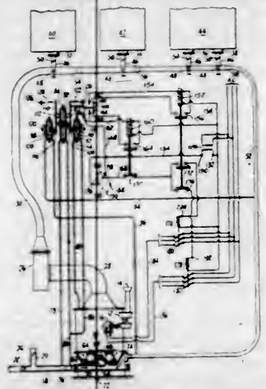
24 Claims. (Cl. 178—6.8)



1. In a television system of the type in which a pick-up device produces signals having a vision component which is representative of the light-tone values of an object field and another component which is independent of said values, said device being under control of aim-altering means, apparatus for holding stationary an image synthesized from said vision signal component which comprises means for producing an auxiliary signal pulse having a controlled time relation to said other component, and means responsive to the elapsed time between said auxiliary signal pulse and a selected part of the wave form of said vision component for producing control energy for actuating said aim-altering means

in a sense to hold said pick-up device aimed at a part of said object field which is represented by said selected part of said vision signal component.

2,403,976
SYSTEM OF PULVERIZING, FEEDING, AND TRANSPORTING OF MATERIAL
James L. Harvey, Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application May 22, 1943, Serial No. 488,013
12 Claims. (Cl. 241—34)

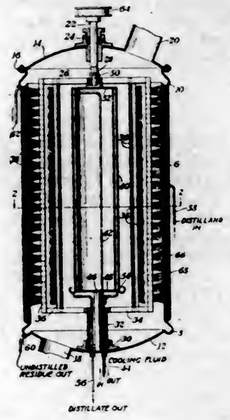


2. In a system of the class described, an air-swept pulverizer having an annular grinding zone within the lower portion thereof in which material in the process of pulverization is maintained during normal operation, said pulverizer having an outlet from its upper portion for discharging a fluent mixture comprising pulverized material suspended in air, means for withdrawing from said system varying amounts of the total mixture discharged from said pulverizer outlet, means for supplying air to said pulverizer at a level below said grinding zone, means separate from said air supplying means for returning to said pulverizer a remaining portion of said mixture at a density substantially equal to the density of the total mixture initially discharged, means for mingling the returned portion of said mixture with said supplied air, means for directing said returned portion mingled with said supplied air upwardly through said pulverizer inclusive of said grinding zone, means for feeding material to be pulverized into said pulverizer above said grinding zone, means for regulating said feeding means comprising pressure sensitive means responsive to a pressure differential indicative of said mingled fluid flow through said pulverizer inclusive of said grinding zone, and means for rendering said regulating means operative in accordance with a measure of the return flow of said remaining mixture portion.

2,403,977
DICHLORIDES OF THE ETHYLENE SERIES
Joseph R. Heard, Jr., New York, N. Y., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
Application January 8, 1944, Serial No. 517,594
15 Claims. (Cl. 260—660)

1. In the process of making dichlorides of the ethylene series, the step of contacting the gaseous olefine with gaseoue chlorine, in the presence of a stable liquid co-solvent for said gases, and in the presence of a small amount of a nitro-paraffin.

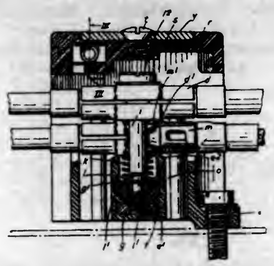
2,403,978
VACUUM DISTILLATION APPARATUS
Kenneth C. D. Hickman and Edmond S. Perry, Rochester, N. Y., assignors to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application September 12, 1944, Serial No. 553,688
9 Claims. (Cl. 202—205)



1. Vacuum distillation apparatus comprising in combination a stationary vaporizing surface, a condensing surface, said surfaces being separated from each other by substantially unobstructed space, means positioned between the vaporizing and condensing surfaces for mechanically distributing distilland onto the stationary vaporizing surface in the form of a thin film and for rapidly agitating and renewing said thin film by mechanical action which means offers relatively little resistance to the flow of vapors from the vaporizing to the condensing surface, means for heating the vaporizing surface, means for cooling the condensing surface, means for introducing distilland onto the vaporizing surface, means for removing undistilled residue from the vaporizing surface, means for removing distillate from the condensing surface and means for maintaining a vacuum in the space between the vaporizing and condensing surfaces.

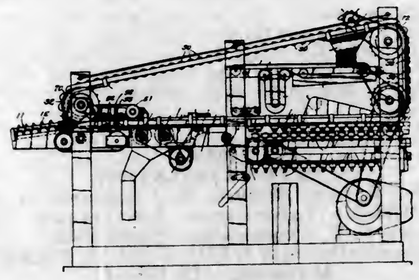
2,403,979
COUPLING FOR ELECTRICAL WIRING SYSTEMS
Walter E. Hill, Streetly, and Thomas D. G. Wintle, and Richard W. Morgan, Walsall, England, assignors to J. A. Crabtree & Co. Ltd., Walsall, England, a company of Great Britain
Application June 13, 1944, Serial No. 540,058
In Great Britain September 17, 1943
10 Claims. (Cl. 173—328)

1. A socket for an electric coupling comprising an insulating block, a clamp member supported in said block and adapted to be positively locked in embracing engagement with a plug inserted therein, a locking screw extending through said member, said screw having a head for engaging one side of said clamp member and having an abutment adjacent its opposite end positioned in spaced relation from the other side of said clamp, a tapped nut in the block for receiving said locking screw, and a spring around said screw and operative compressively between a clamp member and the abutment on the screw for maintaining resilient pressure of a clamp member on



an inserted plug in the event of inadvertent loosening of the screw.

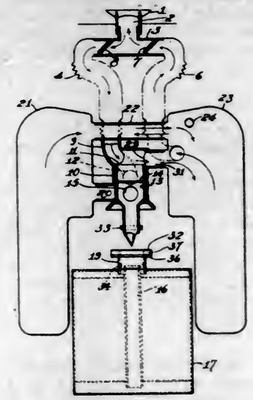
2,403,980
CENTERING DEVICE
George F. Hodson, Altus, Okla., and Lyman L. Campbell, Riverdale, Ill., assignors to Wilson & Company, Inc., a corporation of Delaware
Application October 25, 1944, Serial No. 560,263
11 Claims. (Cl. 198—20)



1. An egg centering device comprising an egg carriage, a pair of egg grippers, means for advancing an egg on the carriage, means for advancing the grippers synchronously therewith with the center of each gripper in a plane passing through the long axis of the egg, a centering member normally urged to contact the equator of an egg in said carriage and freely movable in a vertical direction, and means operatively connected with said centering member for adjusting the relative positions in a vertical plane of the grippers and the carriage by approximately one-half the variation in position of the centering member.

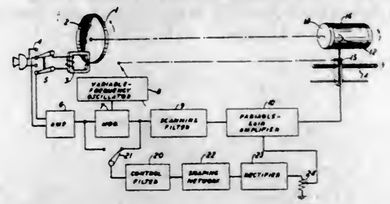
2,403,981
BREATHING APPARATUS
Carey B. Jackson, Forest Hills, John H. Schneider, Ross Huntingdon Township, Westmoreland County, and William P. Yant, Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 1, 1939, Serial No. 302,358
5 Claims. (Cl. 128—191)

4. Self-contained breathing apparatus comprising a face-piece, exhalation and inhalation tubes connected thereto, a check valve in each tube, a removable air-purifying canister provided with substantially concentric inlet and outlet ports, and a valve communicating with said tubes and said ports, said valve being formed for actuation by engagement with the canister whereby to establish communication through the valve between said tubes and ports, and said valve being formed for shutting off communication be-



tween it and the atmosphere when the canister is removed.

2,403,982
ANALYSIS AND REPRESENTATION OF COMPLEX WAVES
Walter Koenig, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 19, 1944, Serial No. 568,880
18 Claims. (Cl. 179—1)

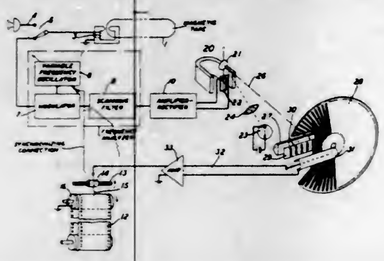


1. In combination, a source of complex waves, frequency analyzer means for deriving from each of successively different parts of the frequency range occupied by said waves an effect individual thereto that varies in intensity in dependence on the variations in wave power found in the individually corresponding part of the frequency range, and means for altering the range of variations in the intensity of said derived effect including means for modifying the intensity of each said effect in dependence on the amount of wave power found at frequencies lying outside the said individually corresponding part of the frequency range.

2,403,983
REPRESENTATION OF COMPLEX WAVES
Walter Koenig, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 3, 1945, Serial No. 586,308
10 Claims. (Cl. 179—1)

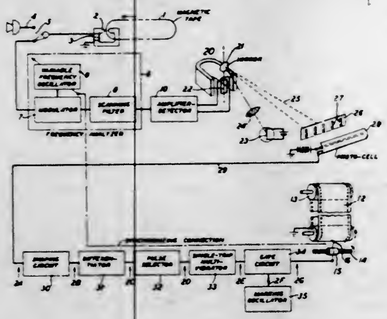
1. In a system for producing on a record surface a visual representation of complex waves in the form of a pattern the dimensions of which have the sense of a frequency axis and a time axis, respectively, frequency analyzer means operative on the complex waves for deriving from each of a multiplicity of component frequency bands thereof an electrical effect individual to said band that varies in accordance with the

varying effective intensity of the wave components therein, means for producing a beam of light, a screen having a multiplicity of aperture means respective to different values of said varying electrical effect, means controlled by said effects in succession for directing said beam of



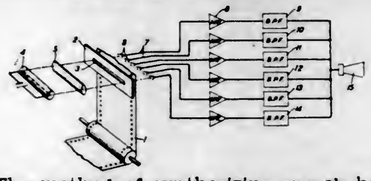
light to said aperture means selectively according to the varying value of each said effect, and means responsive to the light received successively by said aperture means for marking the variation in effective intensity appearing in each of said bands on said record surface in the coordinate position respective to each.

2,403,984
REPRESENTATION OF COMPLEX WAVES
Walter Koenig, Jr., Clifton, N. J., and Alfred E. Ruppel, Queens Village, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 3, 1945, Serial No. 586,309
8 Claims. (Cl. 179—1)



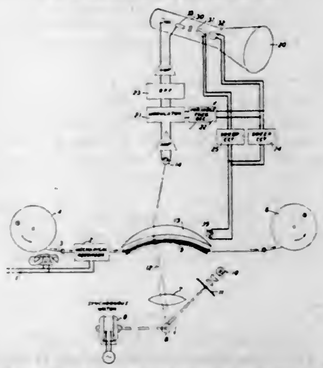
1. A system for producing a spectrogram of complex waves comprising means for storing the said waves, means for reproducing the stored waves repeatedly in electrical form, means for deriving from the reproduced waves during each successive reproduction a control voltage that varies in magnitude substantially in conformity with the varying wave power content of a respective different frequency band, means responsive to said control voltage for producing a succession of electrical pulses variable spaced as a predetermined function of the varying magnitude of said control voltage, means actuated by said pulses for producing a correspondingly spaced succession of equilength bursts of alternating current, a record surface, stylus means movable relative to and across said surface along a different one of a multiplicity of collateral paths during respective different reproductions, and means for marking on said record surface including means for applying said bursts of alternating current to said stylus means.

2,403,985
SOUND REPRODUCTION
Walter Koenig, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 3, 1945, Serial No. 586,310
13 Claims. (Cl. 179—1)



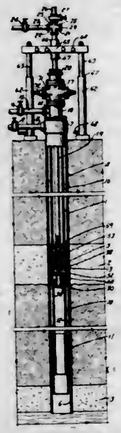
1. The method of synthesizing speech bearing waves represented in a speech spectrogram which comprises detecting substantially simultaneously the variations in envelope amplitude that are recorded in different portions of the spectrogram respective to different parts of the speech frequency range, continually scanning said spectrogram transversely of striations appearing in portions thereof representing voiced sounds to derive a measure of the varying fundamental voice frequency, generating electric wave components having a multiplicity of different frequencies, varying the strength of the different generated components in conformity with the variations detected in corresponding different portions of the spectrogram, varying the pitch of said generated components under the control of said derived measure, and translating the said components of varying strength and pitch into speech bearing sound waves.

2,403,986
WAVE TRANSLATION
Lester Y. Lacy, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 8, 1944, Serial No. 534,669
19 Claims. (Cl. 179—1)



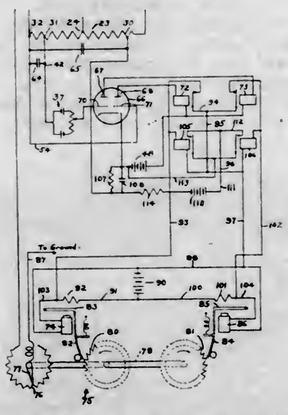
1. A system for translating recorded sound waves into a visual representation, comprising means for repeatedly reproducing the recorded waves in the form of electrical waves at a periodic rate such that the frequency band occupied by said electrical waves is many times as wide as that occupied by said sound waves, frequency selective means cyclically operative over the said frequency band for selectively transmitting in succession the various component frequency bands represented in said electrical waves, said periodic rate being many times the cyclical rate of operation of said selective means, and means for visually representing the effects transmitted by said selective means.

2,403,987
WELL FLOWING APPARATUS
James O. Lewis, Houston, Tex., assignor, by direct and mesne assignments, of one-half to E. C. Will and one-sixth to P. R. Haas, both of Corpus Christi, Tex.
Application December 18, 1940, Serial No. 370,611
6 Claims. (Cl. 166—2)



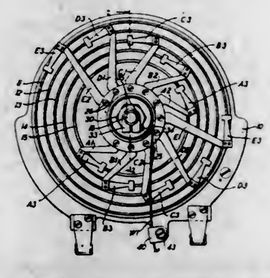
1. In an apparatus of the character described, a transfer valve including a body having spaced guides therein and an inlet port between said guides, and a valving member slidable in said guides and having shoulders for respectively engaging opposite sides of one of the guides and provided with a passageway adapted to connect with said port when one of the shoulders engages said guide, said valving member being arranged to close said port when the other shoulder engages the guide, said valve body having a bypass for directing fluid around the valving member.

2,403,988
PEAK VOLTAGE INDICATOR AND REGULATOR
Harry Charles Likel, Brooklyn, N. Y.
Original application October 16, 1943, Serial No. 506,500. Divided and this application July 11, 1944, Serial No. 544,447
7 Claims. (Cl. 178—60)



1. In a device for regulating the artificial line resistance of a duplex telegraph circuit, in combination, a voltage divider having a center tap and adapted to have said center tap connected to the split of the duplex and its ends connected one to the real line and one to the artificial line of the duplex, said voltage divider having two additional taps the first one of which is located a predetermined electrical distance from the main line connection of the divider and the second one of which is located twice that electrical distance from the artificial line end of the voltage divider, a pair of electron tubes each having an input circuit and an output circuit, the input circuit of one of said tubes including that portion of the voltage divider between said first and said second mentioned additional taps, the input circuit of the second electron tube including that portion of the voltage divider between the first mentioned additional tap and the artificial line end of the voltage divider, means in the output circuit of each of said electron tubes, said means being operable only upon the application thereto of a certain minimum voltage, means to adjust the output of one of said tubes to cause both said output means to function upon the application of a particular voltage to the corresponding electron tube input circuit, means to connect said voltage divider to said duplex circuit, and means operated by said output means individually one to vary the artificial line resistance in one direction and the other in the opposite direction to thereby maintain the artificial line in balance with the real line.

2,403,989
POTENTIOMETER DEVICE
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 30, 1944, Serial No. 538,084
6 Claims. (Cl. 201—55)

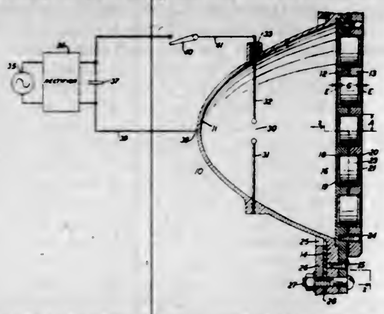


1. In a potentiometer, a mounting, a plurality of resistance coils secured to said mounting, a pair of wipers for each of said resistance coils frictionally engaging the latter, means for moving said pairs of wipers on said resistance coils collectively, a contact for each of said wipers, means electrically connecting said wipers to said contacts respectively, and stationary brushes frictionally engaging said contacts.

2,403,990
COMPRESSIONAL WAVE RADIATOR
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 1, 1942, Serial No. 453,225
14 Claims. (Cl. 177—386)

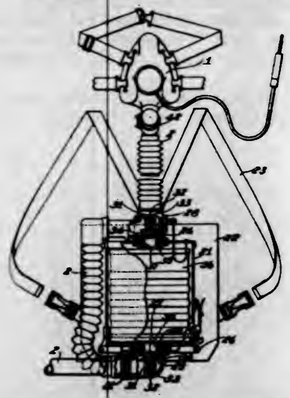
1. A compressional wave radiator comprising a water-tight container, liquid within said container, means for delivering a strong impulse to said liquid and filtering means associated with

said container for transmitting therethrough a band of frequencies while attenuating frequencies outside of said band, said filtering means including a plurality of mechanical filter units



and each of said units comprising two diaphragms rigidly supported at their peripheries and an interposed layer of elastic material having a comparatively low Young's modulus.

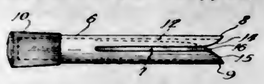
2,403,991
BREATHING APPARATUS
Cornelius J. Murphy and William P. Yant, Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 6, 1939, Serial No. 307,783
3 Claims. (Cl. 128—191)



1. The combination with a face-piece, a breathing chamber, a breathing tube connecting said chamber and face-piece, and an oxygen container for supplying the chamber with oxygen, of an air-purifying canister provided with an inlet and an outlet, a pair of spaced valves mounted in the wall of said tube and adapted to be opened by said canister inlet and outlet when associated therewith, means detachably connecting the canister to said valves, and an inhalation check valve disposed in said tube between said pair of valves adjacent the canister outlet valve.

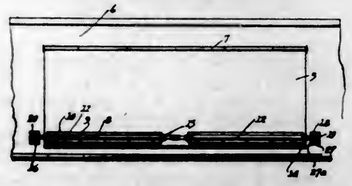
2,403,992
HAIR CURLER
Allan A. Norin, Chicago, Ill., assignor to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware
Application November 24, 1944, Serial No. 564,926
1 Claim. (Cl. 132—33)

A hair curler formed of thermoplastic material, comprising a tubular body having a thin wall section, said body having diametrically opposed slots extending inwardly from one end thereof to provide a pair of opposing fingers, the ends of said fingers being rounded to define a flaring mouth opening into said opposed slots, and a rib formed on the inner wall of one of said fingers and centrally disposed within said body, the edge of said



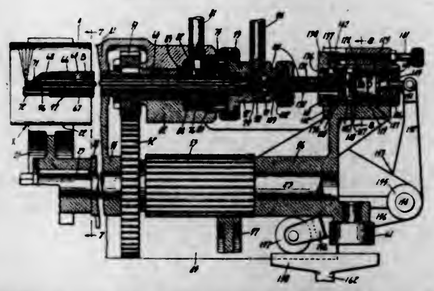
rib being disposed in spaced annular relation to the inner wall of the opposing finger to define therewith an inwardly converging hair engaging recess, said rib extending inwardly from the end of its supporting finger and having a rounded end formed to define with the rounded end of the opposing finger a flaring mouth opening into said hair engaging recess.

2,403,993
DOOR LOCKING DEVICE
Theodore John Nyhus, Crane Valley, Saskatchewan, Canada
Application March 19, 1945, Serial No. 583,613
2 Claims. (Cl. 292—218)



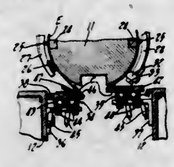
1. A door locking device consisting of a bolt having a locking element on one end thereof, said locking element being rectangular in cross section and provided with a conical centering head located outwardly of said locking element, and a keeper attachable to the frame of the door and provided with an opening to receive the centering head and a slot to receive the locking element, the keeper having a recess communicating with the slot in which the locking element may be turned at right angles to the slot to lock the bolt in the keeper against endwise displacement and lateral displacement.

2,403,994
SPRAYING MACHINE
Horace J. Paynter, Union, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 19, 1944, Serial No. 540,927
10 Claims. (Cl. 91—45)



5. In a machine for spraying a coating material on the interior surface of an irregular shaped tubular can body, the combination of an indexing turret for advancing a can body through the machine and for holding the body in a stationary position during a spraying operation, a slide having reciprocal movement adjacent said turret, a rotatable spray gun carried on said slide and having a discharge orifice, said gun being movable by said slide longitudinally of said held can body for spraying the interior surface thereof, a valve rod located in said gun for controlling the effective size of said orifice, means mounted on said slide for moving said valve rod to open and close said orifice, and devices carried by said slide and having independent movement thereon in accordance with the distance between the gun and that portion of the interior surface of the held can body being sprayed for further moving said valve rod after the orifice has been opened for altering the size of said orifice to control the quantity of spraying material discharging therefrom to provide an even thickness coating on the interior surface of the can body.

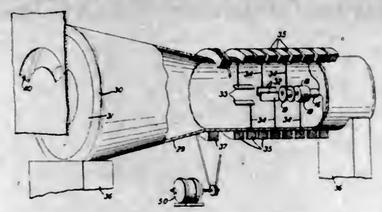
2,403,995
METHOD OF MAKING FIBER CONTAINER BODIES
John F. Peters, Leonia, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 8, 1943, Serial No. 513,429
2 Claims. (Cl. 93—94)



1. A method of producing tubular fiber container bodies having marginal edge portions embodied in an adhesively secured side seam, which comprises forming a fiber body blank into substantially tubular shape to produce a partially formed container body, feeding said body successively through preheating, adhesive applying and seam forming zones, preheating the side seam edge portions of said body at said preheating zone, applying a film of heated adhesive to one of said preheated side seam edge portions while continuing the preheating of the other edge portion at said adhesive applying zone, and bringing said preheated side seam edge portions together in overlapping relation with the adhesive interposed therebetween and pressing the overlapped edge portions together to bond them into an adhesively secured side seam to complete the tubular body at said seam forming zone.

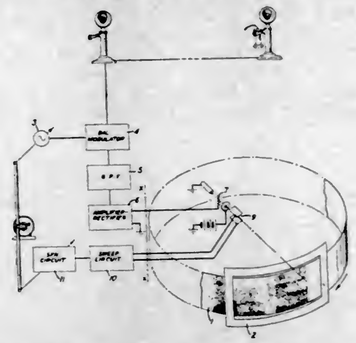
2,403,996
ELECTRON DISCHARGE APPARATUS
Ralph K. Potter, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1941, Serial No. 422,194
9 Claims. (Cl. 250—157)

1. Electron discharge apparatus comprising an enclosing vessel having an end wall, a fluorescent screen on said wall, an electron gun within said vessel and substantially coaxial with said screen for projecting an electron stream thereagainst, means adjacent said gun for subjecting said stream to a field rotating about the axis of alignment of said gun and said screen, means for rotating said vessel about said axis and in the direction opposite to the direction of rotation of



said field, and means for sweeping said stream linearly across said screen.

2,403,997
REPRESENTATION OF COMPLEX WAVES
Ralph K. Potter, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 14, 1942, Serial No. 438,878
44 Claims. (Cl. 179—1)

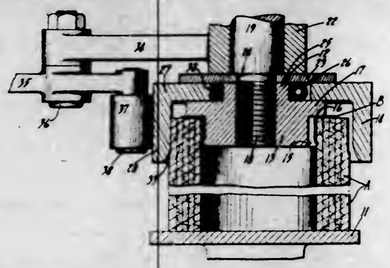


1. The method of pictorially representing speech-bearing waves in the form of a half-tone pattern on a record surface which comprises assigning to said surface dimensional coordinates representative of time and frequency respectively, and impressing at substantially each point on said surface a visual record the intensity of which is graded according to the intensity which the speech wave component represented by the frequency coordinate of the point has at the instant of time represented by the time coordinate of the point.

2,403,998
APPARATUS FOR SECURING A METALLIC ANNULUS
Ralph K. Pottle, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 12, 1942, Serial No. 458,157
10 Claims. (Cl. 153—1)

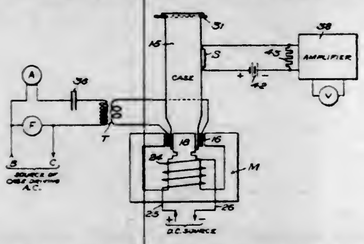
1. In an apparatus for securing a metallic annulus having a depending flange upon the end of a fibre tube, the combination of a crimping head, a chuck located within said head and having a peripheral beading ridge, said chuck being rotatable on a fixed axis, a floating ring mounted on and surrounding said chuck in radially spaced relation thereto, said ring being adapted to encircle an assembled tube member and annulus inserted in the head with the said annulus surrounding the beading ridge on said chuck in radially spaced substantially concentric relation thereto, and means for laterally moving said

floating ring said tube member into eccentric relation and clamping engagement with the said beading ridge of the rotating chuck to effect rel-



ative rotation of the said parts to embed the annulus flange into the interior wall of the tube member to permanently secure the annulus thereon.

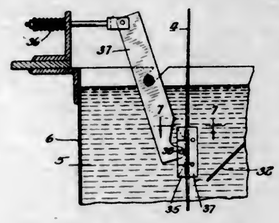
2,403,999
SONIC METHOD FOR TESTING METAL
Thomas A. Read, Herbert I. Fusfeld, and Sumner W. Kitchen, Philadelphia, Pa.
Application February 22, 1944, Serial No. 523,430
4 Claims. (Cl. 73—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a method of testing metal for the presence of defects, the steps which comprise exciting a specimen of said metal to longitudinal vibration, adjusting the frequency of this longitudinal vibration to the specimen's natural frequency of resonance, measuring the amplitude of this resonant frequency vibration to indicate the resulting peak stresses which are set up in the specimen metal, intensifying this resonant frequency vibration's amplitude until said indicated peak stresses attain a predeterminedly high value at which a defective-metal specimen exhibits a damping capacity sharply differing from that of a sound-metal specimen, and measuring said damping capacity at the so intensified amplitude of vibration whereby to determine whether the metal of said tested specimen is sound or is defective.

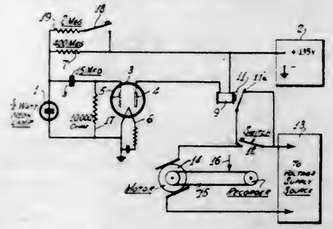
2,404,000
COATING MACHINE AND METHOD OF COATING
Glenn L. Sherwood, Benton Harbor, Mich., assignor to Kaywood Corporation, Benton Harbor, Mich., a corporation of Michigan
Application July 24, 1940, Serial No. 347,135
11 Claims. (Cl. 117—115)

6. An apparatus for continuously coating a metal ribbon with a liquid coating composition which comprises a container for the liquid coating composition, means for guiding the metal ribbon into and out of the liquid in the container at a slow even speed, whereby to uniformly coat the metal ribbon with a thin smooth film of the coating composition and means for preventing vibration of the coated metal ribbon as it leaves the body of liquid coating composition in said container including means having a slot therein which slot is arcuate transversely of the line of travel of said metal ribbon, through which slot



the metal ribbon passes, the said means having the arcuate slot therein being located adjacent the upper surface of the coating composition in said container whereby the coated metal ribbon has a temporary arcuate form transversely of its length as it leaves the body of coating composition.

2,404,001
PERIODIC MOMENTARY SWITCH
Arthur Z. Smith, Wading River, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 10, 1942, Serial No. 457,844
7 Claims. (Cl. 234—1.5)

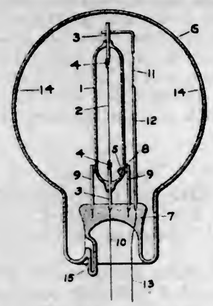


2. A periodic momentary switching system for intermittently moving a telegraph recorder tape comprising an electric motor circuit, a telegraph recorder having a tape arranged to be moved by said motor, means for applying ink to said tape, a gaseous discharge device, a source of voltage, a charging resistance connected in series with said source of voltage and said gaseous discharge device, a charging condenser connected to said charging resistance and across said gaseous discharge device, means to complete said electric motor circuit, whereby the frequency of intermittent operation of said closing device is governed by the value of said source of voltage, said resistance and said condenser for momentarily providing the current flow between a source of voltage and said motor circuit to prevent the recorder ink from congealing in said means.

2,404,002
ELECTRICAL GASEOUS DISCHARGE LAMP
Charles G. Smith, Medford, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application December 4, 1940, Serial No. 368,469
17 Claims. (Cl. 176—122)

1. An electrical discharge device comprising an envelope containing a polyatomic gas, thermal

means independent of the discharge for decomposing said polyatomic gas into a gas of smaller



molecular weight and means for producing an electrical discharge within said envelope.

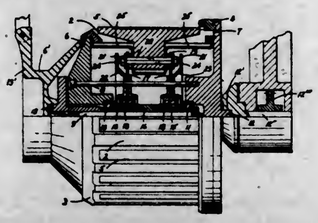
2,404,003
DETERGENT COMPOSITION
Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application March 14, 1942, Serial No. 434,789
5 Claims. (Cl. 252—132)

1. A detergent composition comprising a mixture of tolyl ethyl alcohol and an alkali metal soap, said tolyl ethyl alcohol being present in said mixture in a proportion between 0.05 and 5% by weight of said soap.

2,404,004
DETERGENT COMPOSITION
Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application July 7, 1942, Serial No. 450,081
6 Claims. (Cl. 252—132)

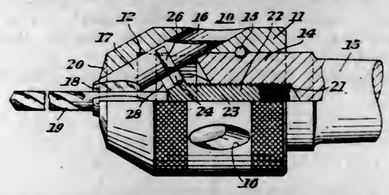
1. A detergent composition, comprising a mixture of an ester of tolyl ethyl alcohol and an alkali metal soap, said ester of tolyl ethyl alcohol being present in said mixture in a proportion between 0.05 and 5% by weight of said soap.

2,404,005
THREAD-ADVANCING DEVICE
Richard W. Stanley, Drexel Hill, and William B. Lowe, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 1, 1945, Serial No. 597,108
12 Claims. (Cl. 28—71.6)



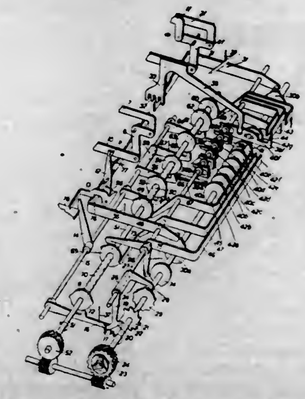
1. Apparatus for handling continuous strands of filamentary material comprising a thread-storing, thread-advancing reel, means for rotating the strand-carrying surface thereof, and a generally ring-shaped strand-receiving surface adjacent the discharge end of the reel, the ring-shaped surface having a smaller diameter than the strand-carrying surface of the thread-advancing reel.

2,404,006
TOOL CHUCK
Albert Thomas, Munhall, Pa., assignor to James J. Duane, Pittsburgh, Pa.
Application April 3, 1944, Serial No. 529,336
4 Claims. (Cl. 279—60)



1. In a tool chuck comprising a shank adapted to be attached to the spindle of a machine tool and having a concentric threaded bore in its free end, a body carried by said end of said shank and adapted for rotation with respect to said shank, tool gripping jaws, the gripping surfaces of which are substantially coaxial with said shank, supported in said body and adapted to move inwardly to grip the sides of a tool between its ends upon relative rotation of said shank and body in one direction; a jaw actuating screw co-operating with said jaws and threaded into said bore and having jaw actuating recesses and a coaxial frustro-conical recess in its outer end, the wall of which is adapted to engage the peripheral edge of the adjacent end of a machine tool to force the tool into coaxial relation to said shank so the tool will be rigidly held at axially spaced areas to assure coaxial alignment of the tool in spite of stresses encountered in operation.

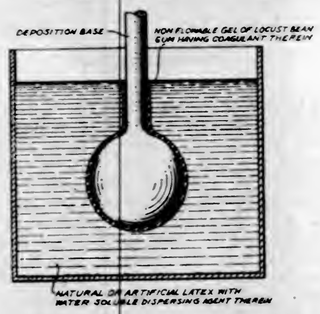
2,404,007
TELEGRAPH APPARATUS
Alfred Edward Thompson and Reginald Dennis Salmon, Croydon, England, assignors to Creed and Company Limited, Croydon, England
Application August 20, 1943, Serial No. 499,310
In Great Britain August 21, 1942
19 Claims. (Cl. 178—80)



1. A keyboard operated Morse code transmitter comprising a plurality of keys each representing a character, means common to all keys and selectively actuated by each key for analyzing into

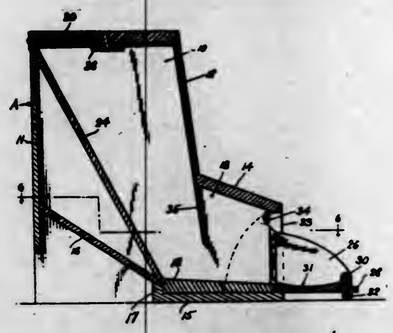
elements the Morse signal corresponding to the key character means common to all keys for causing transmission of said elements in sequence in accordance with the operations of said selectively actuated means, and means for returning the transmitter to transmitting position after the final element of said signal has been sent.

2,404,008
STABILIZED DISPERSIONS AND FORMING SHAPED ARTICLES
Pierce M. Travis, Ridgewood, N. J., assignor, by mesne assignments, of one-fourth to J. D. Silberman and one-fourth to Morris Hirsch, both of New York, N. Y.
Application July 25, 1940, Serial No. 347,479
15 Claims. (Cl. 18—58)



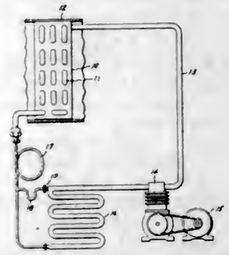
13. In making a shaped rubber article, the method which comprises applying over a shaping form a non-flowable highly porous coating carrying an aqueous solution of a latex coagulant and then applying to said coating an aqueous dispersion of rubber-like material and of vulcanizing material therefor, and including also as a stabilizing agent .005 to .025 part of the alcohol precipitate of colloidal extract of Irish moss to 100 parts of rubber and thereupon subjecting the shaped rubber composition to vulcanization.

2,404,009
CAPSULE CONTAINER AND VENDER
Harold C. Trimble, Miami Springs, Fla.
Application October 12, 1944, Serial No. 558,350
2 Claims. (Cl. 222—129)



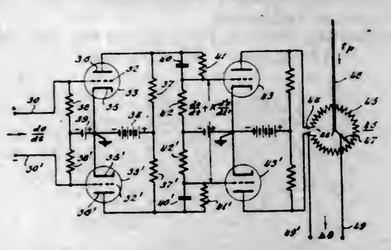
1. An apparatus of the kind described, comprising a body having a forwardly projecting discharge throat portion at the lowermost portion of its front, vertical spaced partitions within the body for forming a plurality of separated compartments therein for communication with the throat portion, a door swingingly supported for opening and closing movements at the throat portion and having dished inner face forming a tray and wings built on the door and slidably interfitting the body and partitions for dividing the tray face of the door in conformity with the compartments and a removable backing in the compartments and inclined in the direction of the throat portion for gravity action of the contents of such compartments thereto.

2,404,010
REFRIGERATING MACHINE
Fred O. Urban, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Original application January 19, 1943, Serial No. 472,818. Divided and this application November 13, 1943, Serial No. 510,105
4 Claims. (Cl. 62—8)



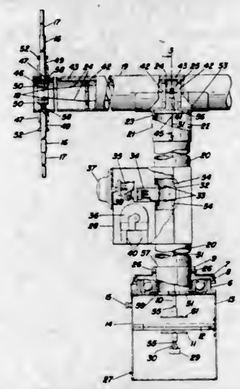
1. A refrigerating machine including an evaporator, means for withdrawing vaporized refrigerant from said evaporator, means for condensing the withdrawn refrigerant to liquefy the same, a capillary tube restrictor for conducting liquid refrigerant from said condensing means to said evaporator, and means associated with a portion of said tube intermediate the ends thereof for admitting to said tube gaseous refrigerant from said condensing means for maintaining the flow of refrigerant to said evaporator within a predetermined range regardless of changes of pressure within said condensing means.

2,404,011
PREDICTION APPARATUS
Walter T. White, Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York
Application June 21, 1943, Serial No. 491,637
5 Claims. (Cl. 235—61.5)



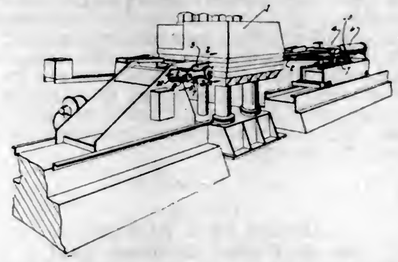
1. In a fire control system, wherein a measure of the time rate of change of a coordinate of the target position is received as the magnitude of a first variable voltage, and a measure of the projectile time of flight is received as an angular displacement of a shaft, prediction apparatus comprising an electrical network receiving said first voltage and consisting of a first resistor connected in series with a parallel arrangement of a second resistor and a condenser, a potentiometer unit having a linearly wound resistive winding connected to receive the voltage across said first resistor, and a rotating contact arm cooperating with the potentiometer winding actuated from said shaft.

2,404,012
RADIO DIRECTION FINDER
Robert H. Worrall, Honolulu, Territory of Hawaii
Application December 8, 1938, Serial No. 244,710
13 Claims. (Cl. 250—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



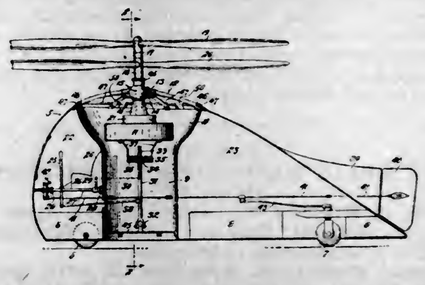
1. Direction finding means, comprising a shielding housing, a detachable vertical shielding tube rotatably mounted thereon, a horizontal shielding tube detachably mounted at its longitudinal center on said vertical tube, an upper and a lower vertical detachable collector secured at each end on said horizontal shielding tube and insulated therefrom and from each other, a conductor inside said horizontal shielding tube connecting each said upper collector to said lower collector at the opposite end of said horizontal shielding tube, insulating guide means to rotate the common plane of said conductors from the vertical at each end of said horizontal shielding tube to the horizontal at its center, two down leads extending through said vertical shielding tube, fixed clip means connected to said down leads so located as to engage said conductors in said horizontal shielding tube at the exact center of each, a series condenser connected in each said down lead, a low capacity switch to short circuit each said series condenser, a variable balancing condenser having a separate stator connected to each said down lead and a rotor connected to said vertical shielding tube, a variable tuning condenser connected across said down leads, a variable condenser connected between said tuning condenser and said vertical shielding tube to make the capacity of the stator of said tuning condenser to ground equal the capacity of its rotor and shield to ground, a shielding enclosure for said condensers and switches, a rotatable coil disposed in said shielding housing connected to said down leads and rotating with said vertical shielding tube, a fixed coil mounted in said shielding housing below said rotatable coil and magnetically coupled thereto, an electrostatic shield disposed between said coils, and an azimuth scale attached to said vertical shielding tube.

2,404,013
REMOVABLE MANDREL FOR BELT STRETCHERS
Thomas P. Tapper, Prospect Park, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application August 24, 1944, Serial No. 551,022
2 Claims. (Cl. 74—216.5)



1. A separable roller and supporting structure therefor comprising, in combination, a roller, an arm for supporting an end thereof, means for pivotally supporting one end of said arm and for allowing axial shifting thereof along its pivotal axis, a bearing disposed in said arm, a mandrel journalled in said bearing, means for permanently maintaining the mandrel in operative relation to the bearing and arm, and separable means for connecting the mandrel and roller together, whereby the arm may be axially shifted to separate the mandrel from the roller while allowing the bearing and mandrel to remain undisturbed in the arm during said axial shifting.

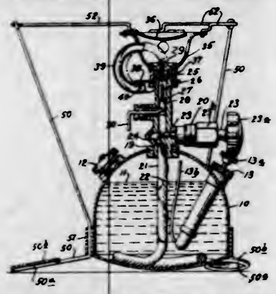
2,404,014
HELICOPTER
Fred Thornes, Toms River, N. J.
Application February 1, 1943, Serial No. 474,401
1 Claim. (Cl. 244—17)



Aircraft of the character disclosed comprising a fuselage having a vertical air passage down through the body of the same, a universal mounting on said fuselage at the upper end of said air passage, an engine suspended by said universal mounting in said vertical air passage and free for universal swinging adjustments but held against rotary movement in said passage, rotary sustaining means carried and driven by said universally mounted engine above said air passage and arranged to force a blast of air at various angles or straight down through said air passage, depending upon different angular adjustments of said engine in said passage, control means in said fuselage exteriorly of said vertical air passage, and operating connections extending from said control means into said air passage for swinging said engine angularly in said air passage in accordance with operation of said control means, said operating connections including universal

joint connections and being readily separable and said universal mounting for the engine and sustaining means being readily separable from the fuselage to enable the engine being readily lifted up out of the air passage, a fixed support across the lower end of said air passage, said universal joint connections including a generally vertical post having a universal, non-rotating mounting at its lower end on said support and a non-rotative, sliding universal connection between the upper end of said post and said engine, and said operating connections including mechanical connections engaged with said post between its upper and lower ends for swinging the same in different directions and for thereby swinging said engine into different angular positions in said vertical air passage.

2,404,015
LIQUID FUEL BURNER
Brooks Walker, Piedmont, Calif.
Application January 16, 1942, Serial No. 426,993
6 Claims. (Cl. 158—81)



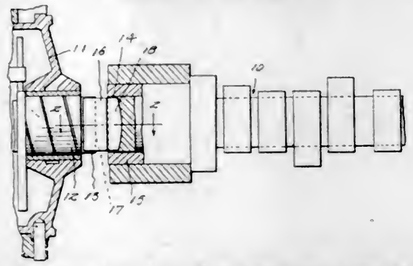
1. A burner operated on vaporized liquid fuel having a burner cup, a generator, a fuel jet, and a starting element forming a hollow passage from a point adjacent the jet to a point adjacent the generator so a flame may be directed against said generator during the starting operation, said starting element being adapted to be moved out of engagement with the fuel from said fuel jet, and said generator being directly below and forming a straight passage to said fuel jet.

2,404,016
METHOD OF MAKING ELECTROMAGNETIC DEVICES
David E. Wiegand, Zanesville, Ohio, assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Original application September 20, 1944, Serial No. 554,945. Divided and this application July 13, 1945, Serial No. 604,908
2 Claims. (Cl. 29—155.57)



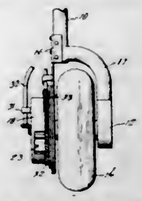
1. The method of making a three phase transformer comprising forming three closed cores of wound magnetic ribbon each core having a pair of straight leg portions, clamping the straight leg portions of each core and turning the clamped straight leg portions to place the planes of the ribbon in one straight leg portion at an angle to the planes of the ribbon in the other straight leg portion for each core and allowing the end portions to arch outwardly at each end of each core, annealing the cores while they are clamped and while the straight leg portions for each core are held in their angular relation to each other, assembling the cores with the edges of the laminations in adjacent cores arranged in a substantial edge to edge contact, and winding three conducting winding assemblies around the straight leg portions of the cores with each winding assembly surrounding a straight leg portion of each of two adjacent cores.

2,404,017
DISTRIBUTOR SHAFT AND CAMSHAFT ADAPTATION
Charles W. Wilkinson, Plant City, Fla., assignor to James G. Helms, Plant City, Fla.
Application March 18, 1943, Serial No. 479,664
1 Claim. (Cl. 64—1)



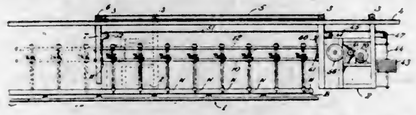
A coupling key for connecting the cam shaft of a replacement motor with the shaft of a distributor of the original motor comprising a body member having a slot on one side to operate with a projection on the end of the distributor shaft and having a projection parallel to and opposite the slot for cooperation with a slot in the end of the cam shaft, said projection having an arcuate end for cooperation with a corresponding shaped depression in the end of the cam shaft.

2,404,018
AIRPLANE LANDING GEAR
Bernard E. Yaggy, Waterloo, Iowa
Application March 23, 1944, Serial No. 527,811
4 Claims. (Cl. 244—103)



1. In combination with the wheel support and the wheel of an airplane landing gear, a member secured to said support, said member having a circular flange on the outside thereof providing a circular groove thereon, a substantially cylindrical housing having a rotor therein and having an external flange registering rotatably in said groove, said rotor having vanes, said housing having a front opening adapted to direct the air stream to said vanes to rotate said wheel in a forward direction when the airplane is landing, said peripheral wall having spaced rack teeth thereon, a worm in mesh with said rack teeth, and means for rotating said worm.

2,404,019
BILLET NICKING MACHINE
August H. Yoch, Melrose, Pa., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application December 15, 1942, Serial No. 469,073
6 Claims. (Cl. 266—23)



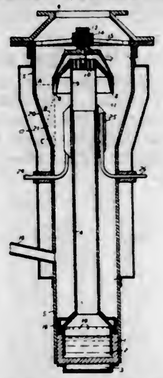
5. In a billet nicking machine or the like having a vertically movable tool support, guiding means along which the support is movable, and driving mechanism for moving the support along the guiding means comprising a chain that has a run extending generally parallel to the guiding means, a rotatable shaft movable with said support, a sprocket on said shaft in position to engage the chain and be rotated by the chain when the support is stationary, and a motor for driving the chain continuously at the desired speed of movement of the support, the improvement which comprises a friction brake at one end of said shaft adapted when applied to arrest rotation of the shaft to cause the support to move with the chain, manually operable means located adjacent to the other end of said shaft and operatively connected to the friction brake for applying the same, and a hand wheel on that end of the shaft adjacent which said manually operable means for the brake is located.

2,404,020
PRESSURE-APPLYING AVIATOR'S SUIT WITH HELMET
John D. Akerman, Minneapolis, Minn.
Application March 10, 1943, Serial No. 478,640
6 Claims. (Cl. 128—144)



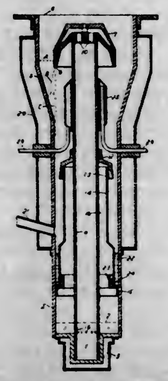
1. A pressure-applying aviator's suit for use at high elevations having in combination a highly flexible envelope covering the torso, limbs and arms of the wearer in practical fitting relationship, a substantially rigid helmet surrounding the head of the wearer and proportioned to be spaced throughout its periphery from the head to permit of free tilting and turning movements of the head in all directions therein, said helmet having the entire front portion thereof extending from a position above the head of the wearer to a point below the neck of the wearer constructed of transparent material, the lower peripheral edge of said helmet having its forward portion slanting downwardly below the neck of the wearer to permit free downward vision, means for forming a sealed joint between the lower edge of said helmet and the upper portion of said envelope, means for discharging a gaseous medium under pressure into said suit and means associated with said suit for controlling the pressure therein.

2,404,021
VACUUM PUMP OF THE VAPOR TYPE
Paul Alexander, Berkhamsted, and Cecil Whiley, London, England
Application May 26, 1945, Serial No. 596,034
In Great Britain April 21, 1945
4 Claims. (Cl. 230—101)



1. A vapor vacuum pump comprising a boiler, a central tube adapted to lead the vapor upwards towards the inlet of the pump, a water cooled outer tube surrounding the central tube having the pump outlet near the bottom of the tube, an annular jet at the top of the central tube adapted to direct vapor in the pumping direction into the annular space between the outer and central tubes, the outer tube diminishing in diameter at a point near jet orifice level to an extent determined by the length of vapor jet measured along a cone with angle 15 degrees from the pumping direction not exceeding 2.6 times the width of the annular space at jet orifice level.

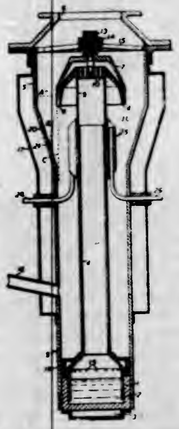
2,404,022
VAPOR VACUUM PUMP OF THE DOUBLE JET TYPE
Paul Alexander, Berkhamsted, and Cecil Whiley, London, England
Application May 26, 1945, Serial No. 596,035
In Great Britain April 21, 1945
1 Claim. (Cl. 230—101)



A vapor vacuum pump comprising a boiler for the vapor, a central tube depending into said boiler and having apertures in its depending part, an outer tube forming with said central tube an

annular space in said boiler, an intermediate tube between said central and outer tubes forming inner and outer annular spaces respectively therebetween, upper and lower annular jets supplied with vapor from the boiler respectively through the central tube and the inner annular space, and a liquid seal between the lower end of said intermediate tube and said outer tube into which seal falls condensed vapor from said jets and from which the condensed vapor returns to said annular boiler space.

2,404,023
VAPOR VACUUM PUMP
Paul Alexander, Berkhamsted, and Cecil Whiley, London, England
Application May 26, 1945, Serial No. 596,036
In Great Britain April 21, 1945
1 Claim. (Cl. 230—101)

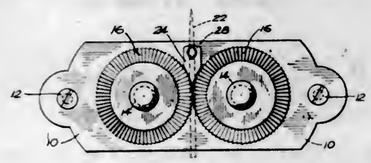


A vapor vacuum pump comprising a central tube and an outer tube surrounding the same and forming therebetween an annular space, an annular jet on said central tube having a jet orifice arranged to project vapor therefrom downwardly into said annular space, and a water-cooled jacket surrounding and spaced from said central tube and extending downwardly over a length thereof from just below said jet orifice.

2,404,024
CONVERSION CATALYST
James C. Ballie, Chicago, Ill., Llewellyn Heard, Hammond, Ind., and Rodney V. Shankland, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application May 14, 1943, Serial No. 487,024
4 Claims. (Cl. 196—52)

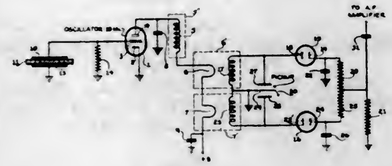
1. The process of reforming petroleum naphtha which comprises subjecting the vapors of said naphtha and hydrogen at 800–1100° F. and a space velocity of about 0.1 to 10 to the action of a refractory solid metal oxide catalyst consisting essentially of active alumina prepared from aluminum dross by treating with acid until substantially all gas evolution has ceased, precipitating, drying and igniting the resulting aluminum oxide and promoting the catalyst for the reforming reaction by about 2 to 20 percent of a group VI metal oxide, the promoter being introduced by adding a salt of said group VI metal before drying the said alumina.

2,404,025
KNIFE SHARPENER
Joseph L. Barnes, Indianapolis, Ind.
Application October 6, 1944, Serial No. 557,427
5 Claims. (Cl. 76—86)



4. In a knife sharpener of the character disclosed, a pair of rotary abrasive elements, said elements being frustum cone shaped, and a wedge biased to frictionally engage between said elements for permitting of their rotation in one direction and preventing their rotation in the opposite direction.

2,404,026
METHOD OF AND SYSTEM FOR TRANSLATING SIGNALS
Joseph G. Beard, Haddonfield, and Robert W. Harralson, Masonville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 29, 1944, Serial No. 528,611
12 Claims. (Cl. 179—100.4)

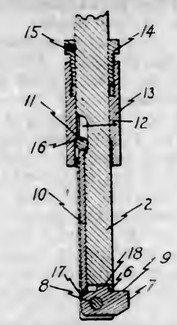


1. A method which includes the steps of generating high frequency oscillations of a predetermined frequency, introducing said oscillations into a pair of resonant circuits tuned to a common frequency differing by a predetermined relatively small frequency value from said oscillation frequency, separately rectifying voltages induced in each of said tuned circuits, combining in polarity opposition the rectified voltage resulting in each of said rectification steps, and concurrently varying in opposite senses the frequency of each of said tuned circuits in response to displacements of a mobile element.

2,404,027
SPOT FACING TOOL
Louis Belanger, Salem, Mass.
Application January 26, 1945, Serial No. 574,726
2 Claims. (Cl. 77—58)

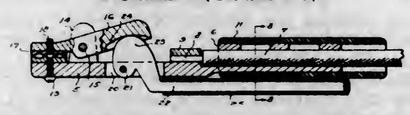
1. A spot facing tool comprising a body having driving means at one end to be received in the spindle of a machine tool and a cutter mandrel at its other end, a cutter freely rotatable about a transverse axis in the outer end of said mandrel to swing downward into position in line with the mandrel axis thereby to permit the mandrel to be passed through a workpiece aperture, a rod extending lengthwise of said mandrel having one of its ends engaging said tool and its other end extending to a remote point upwardly in the said mandrel, a sleeve surrounding and having

threaded engagement with said mandrel and means for transferring longitudinal motion of the sleeve to the rod whereby the rod engages and



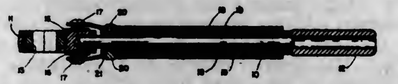
locks the cutter in its cutting position with its end projecting laterally outward beyond said mandrel.

2,404,028
ELECTRIC WELDING ROD HOLDER
Albert De Wain Best, Sandusky, Ohio
Application September 5, 1944, Serial No. 552,777
1 Claim. (Cl. 219—8)



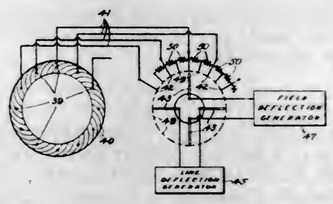
An electrode rod holder comprising an elongated frame having a handle at one end, means for attaching an electric cable to the frame, the other end of the frame constituting a stationary jaw, a movable jaw pivoted intermediate its ends to the frame on one side thereof for engagement of one end thereof with said stationary jaw for clamping an electrode rod thereto and a lever mounted on said frame for swinging on the other side thereof toward the same in the plane of the frame, the mounting for said lever comprising an end cam thereon extending through and pivoted to the frame to engage the other end of the movable jaw, said cam pivoting in the plane of the movable jaw, said movable jaw having a recess in said other end thereof in which said cam seats to obviate relative side play of the movable jaw and the cam.

2,404,029
TORQUE WRENCH
Paul M. Birk, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application May 6, 1944, Serial No. 534,476
6 Claims. (Cl. 73—139)



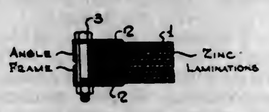
1. In a torque measuring wrench, the combination of a head which is engageable with a part to be turned, a resilient beam connected to said head and which is deflected by the force applied to it in turning said part, a handle at the outer end of said beam, an indicator, a pivot for said indicator carried by said head, an actuating arm fixed at its outer end to said handle, and a slot and pin connection between said indicator and the inner end of said arm in the vicinity of said pivot.

2,404,030
TELEVISION SYSTEM
Cecil Oswald Browne, deceased, late of Buckinghamshire, by Margaret Winifred Browne, Gerrard's Cross, and Ernest William Tole, Bower Ashton, Long Ashton, England, administrators, and Henry William Hobbs, Haslemere, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application March 7, 1944, Serial No. 525,408
In Great Britain March 17, 1938
1 Claim. (Cl. 250—156)



A deflecting yoke for a cathode ray tube wherein a cathode ray beam is adapted to be produced, comprising a continuous tapped electromagnetic winding for producing deflecting fields in response to the application of deflecting potentials to certain of the taps of the winding, and switching means for selecting different taps of the winding in order to alter the direction of deflection of the cathode ray beam.

2,404,031
CORROSION PREVENTING ELECTRODE
Charles H. Bunn, Jr., Westfield, and Leo W. Schrader, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application June 18, 1943, Serial No. 491,382
5 Claims. (Cl. 204—148)

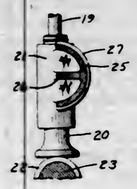


1. A method for protecting a tank composed of a metal more noble than zinc against the corroding influence of solution contained therein which cause adherent scale formation on zinc which comprises immersing in said solution a plurality of superimposed layers of zinc foil electrically connected to said metal tank and having a thickness between 0.004" and 0.014" whereby the corrosion of the exterior layers of zinc results in the exposing of succeeding layers of zinc.

2,404,032
VALVE TAPPET MOUNTING
George E. Burks, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application July 9, 1945, Serial No. 603,799
7 Claims. (Cl. 123—90)

3. A device for mounting valve tappets on an engine block for engagement with spaced cams on an engine cam shaft which comprises, a bracket, tappet guides bored in the bracket, and a cylindrical surface on the bracket formed on an

axis at right angles to the axes of said tappet guides, whereby the cylindrical surface will seat



in a cylindrical recess bored in the block parallel to the cam shaft to position the tappets at right angles to the cam shaft.

2,404,033

A CELLULOSE ESTER COMPOSITION CONTAINING A ROSIN ESTER AND THE METHOD OF PREPARING SAID ROSIN ESTER

Harry Burrell, Paramus, N. J., assignor, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 3, 1943, Serial No. 474,551

22 Claims. (Cl. 106—173)

8. A nitrocellulose-compatible resin which comprises essentially pentaerythritol triabietate-mono-(monobutyl maleate) and is essentially the product of the reaction of approximately 1 molecular proportion of pentaerythritol, approximately 3 molecular proportions of rosin, approximately 1 molecular proportion of butyl alcohol and approximately 1 molecular proportion of maleic anhydride.

2,404,034

BUTTER PRODUCT AND PROCESS FOR PRODUCING THE SAME

Loran O. Buxton, Belleville, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application August 14, 1941, Serial No. 406,831

7 Claims. (Cl. 99—118)

6. A process for producing a butter concentrate, the steps which comprise contacting butter with a monohydroxy alcohol containing one to three carbon atoms and separating the alcohol bearing in solution a major portion of the vitamin, flavor-imparting and antioxidant constituents of the butter.

2,404,035

BUTTER EXTRACT

Loran O. Buxton, Maplewood, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Original application August 14, 1941, Serial No. 406,831. Divided and this application July 18, 1945, Serial No. 605,844

8 Claims. (Cl. 99—118)

1. A process for producing a butter concentrate, the steps of which comprise contacting butter with a solvent selected from the group consisting of hydrocarbons having 5 to 8 carbon atoms and chlorinated hydrocarbons having 1 to 3 carbon atoms to dissolve at least a major portion of the butter, cooling the mass to a temperature at least as low as 10° C. and separating from the mass the solvent bearing in solution a major portion of the vitamin, flavor-imparting and antioxidant constituents of the butter.

2,404,036

PRODUCTION OF BUTTER EXTRACT

Loran O. Buxton, Maplewood, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Original application August 14, 1941, Serial No. 406,831. Divided and this application July 18, 1945, Serial No. 605,845

8 Claims. (Cl. 99—118)

1. A process for producing a butter concentrate, the steps of which comprise contacting butter with a solvent selected from the group consisting of aliphatic ketones containing 3 to 5 carbon atoms to dissolve at least a major portion of the butter, cooling the mass to a temperature at least as low as 10° C. and separating from the mass the solvent bearing in solution a major portion of the vitamin, flavor-imparting and antioxidant constituents of the butter.

2,404,037

PROCESS OF EXTRACTING BUTTER

Loran O. Buxton, Maplewood, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Original application August 14, 1941, Serial No. 406,831. Divided and this application July 18, 1945, Serial No. 605,846

8 Claims. (Cl. 99—118)

1. A process for producing a butter concentrate, the steps of which comprise contacting butter with a solvent selected from the group consisting of aliphatic esters containing 2 to 5 carbon atoms to dissolve at least a major portion of the butter, cooling the mass to a temperature at least as low as 10° C. and separating from the mass the solvent bearing in solution a major portion of the vitamin, flavor-imparting and antioxidant constituents of the butter.

2,404,038

METHOD OF TREATING MUD-LADEN DRILLING FLUIDS

William T. Cardwell, Jr., Whittier, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 18, 1944, Serial No. 531,643

4 Claims. (Cl. 252—8.5)

1. A method of treating aqueous drilling mud to produce a drilling fluid which will possess desirable viscosity, wall-building and water loss properties when used in the process of drilling a well from a mud which does not originally possess such properties presumably due to the presence of exchangeable alkaline earth or other polyvalent cations, which comprises commingling said mud with a coarsely divided, water-insoluble cation- selective material adapted to substitute alkali metal cations for alkaline earth or other polyvalent cations present in said mud, agitating said mixture to improve its filter loss characteristics to the desired extent, and separating from said improved mud said materials.

2,404,039

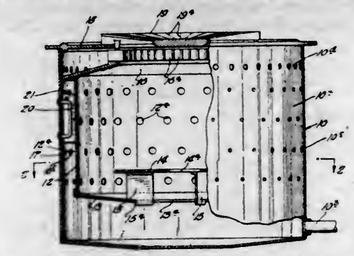
OIL BURNER

Boyd F. Castle, Quincy, Ill., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill., a corporation of Illinois

Application July 13, 1944, Serial No. 544,656

6 Claims. (Cl. 158—91)

1. A burner of the class described comprising a pot having an imperforate bottom wall a side wall provided with primary air holes and means to supply liquid fuel to said pot, a shell inside the pot and spaced from and co-axial with said side wall, said shell being provided with air holes in alignment with said primary air holes in said



side wall, a gas ring having a central aperture and extending inwardly from said shell below the air holes therein and above the bottom of said pot, and a pilot ring located above the aperture in said gas ring and in spaced relation thereto.

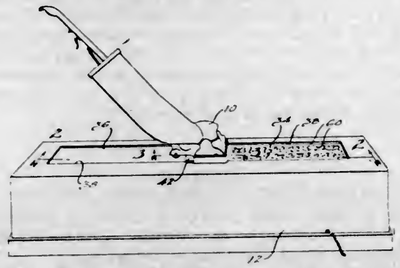
2,404,040

DEMONSTRATING DEVICE FOR VACUUM CLEANERS

Archibald J. Chapman, Grosse Pointe, Mich., assignor to Eureka Williams Corporation, a corporation of Michigan

Application September 25, 1944, Serial No. 555,689

9 Claims. (Cl. 35—13)



1. A device for exhibiting suction cleaners comprising a piece of carpeting arranged so as to have an exposed horizontally extending portion, said piece of carpeting having litter or dirt secured thereto, a second piece of clean carpeting arranged so as to have an exposed horizontally extending portion in line with and adjoining that of said first-mentioned piece of carpeting, a suction cleaner overlying the gap between the horizontally extending portions of said pieces of carpeting and having its nozzle arranged over and presented toward said first-mentioned piece, and means for moving both of said pieces of carpeting relative to said cleaner at substantially the same speed and in a direction corresponding with movement from front to rear of said cleaner.

2,404,041

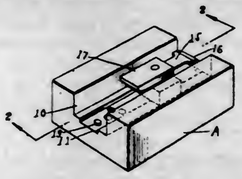
APPLICATOR FOR BELT FASTENERS

Hugh L. Coats, Wheaton, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a corporation of Illinois

Application December 6, 1944, Serial No. 566,911

9 Claims. (Cl. 69—20)

1. An applicator for U-shaped attaching members of a V belt fastener, comprising: a main member having guiding means for a V belt end; a knife cooperable with said guiding means to pre-slit a V belt end when moved along said guiding means against the knife; means for retaining an attaching member of a V belt fastener in position on said main member while the pre-slit belt end is moved toward said attaching member and



one arm thereof inserted in the pre-slit; and means for limiting the extent to which the belt end may be moved toward the knife and said retaining means.

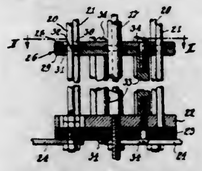
2,404,042

ELECTRON DISCHARGE DEVICE

Hampton J. Dailey and Leo C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 12, 1944, Serial No. 558,300

6 Claims. (Cl. 250—27.5)



1. An electron discharge device having a grid and a cathode within the grid, a spacer transverse to a part of said cathode and in proximity to a part of said grid, and an insulator in said spacer embedded inwardly of exposed surfaces of said spacer.

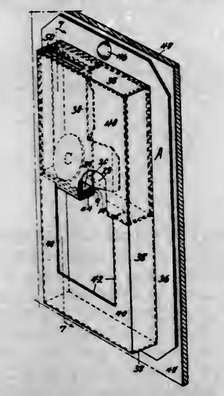
2,404,043

CHECK RETAINER

June D. Dilley, Huntington, W. Va., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey

Application August 20, 1943, Serial No. 499,376

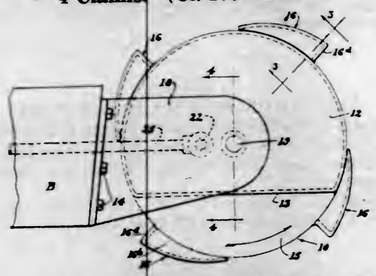
5 Claims. (Cl. 232—1)



1. A check retainer comprising, a casing including inner and outer walls adapted to be secured to a supporting structure, said casing being formed with a window in the lower portion and a slot in the upper portion thereof, and a partition member housed by said casing and pro-

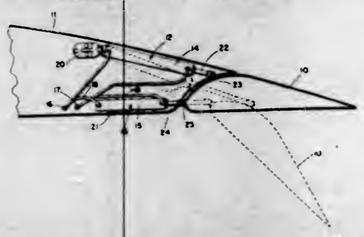
viding a labyrinth path connecting said slot and window, said partition member being formed by a plate portion located substantially midway between the inner and outer walls of the casing and held in place by a lower tab inclined toward and fixed to the inner wall and by an upper tab inclined toward and fixed to the outer wall said tabs forming deflectors for the coin during its movement in said path.

2,404,044
PROPELLING DEVICE
Marcus Falk, Boston, Mass.
Application August 23, 1945, Serial No. 612,190
4 Claims. (Cl. 170—141)



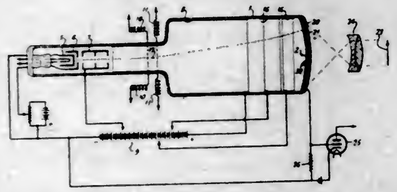
1. A propelling device comprising a propeller embodying a body portion having a plurality of blades, at the periphery thereof, a guide member associated therewith having a portion of its peripheral surface curved and a portion straight, means to support said member and propeller adapted to be connected to a boat, and means operatively connected to said propeller to rotate it, said blades being outside of, opposite to and adjacent said curved peripheral surface.

2,404,045
AIRFOIL MOUNTING AND ACTUATING MECHANISM
Fredric E. Flader, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application November 20, 1943, Serial No. 511,155
2 Claims. (Cl. 244—42)



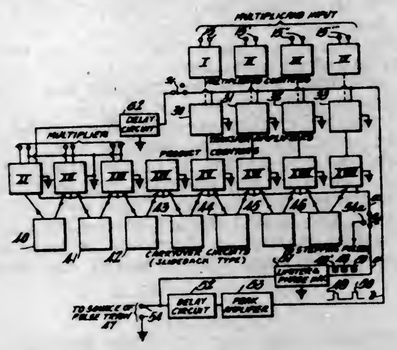
1. Mechanism for attaching an auxiliary airfoil to a main airfoil and for actuating the auxiliary airfoil, said mechanism including a plurality of arms, each having a hydraulic cylinder and an extensible plunger carried by the cylinder, means for pivotally connecting said plungers to said auxiliary airfoil, means for connecting certain of said cylinders to said main airfoil so that they are supported against angular movement, means for pivotally connecting other of said cylinders to said main airfoil so that they are free to move angularly, and means for introducing hydraulic fluid into said cylinders to cause said plungers to move said auxiliary airfoil with relation to said main airfoil.

2,404,046
TELEVISION TRANSMITTING APPARATUS
Leslie E. Flory, Oaklyn, N. J., Ernest A. Massa, Osborn, Ohio, and George A. Morton, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 21, 1941, Serial No. 399,110
8 Claims. (Cl. 178—7.2)



1. Apparatus for television transmission comprising an evacuated envelope having an end portion which is spherically concave to the interior thereof, a substantially transparent electrically conducting electrode on one surface of said end portion, a mosaic of light sensitive photoemissive particles adjacent said electrode and in capacitive relation therewith the exposed surface of said mosaic conforming to the spherical concavity of said end portion, an electron gun oppositely disposed from said mosaic to develop an electron beam, scanning means to direct said beam along paths oblique with respect to the radii of said curved end portion and centered at a point more remote from said mosaic than the center of spherical concavity thereof, and means to divert said beam from the oblique paths immediately adjacent said mosaic to paths radially incident thereon to develop signals in response to light projected upon said mosaic.

2,404,047
ELECTRONIC COMPUTING DEVICE
Leslie E. Flory and George A. Morton, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 21, 1943, Serial No. 473,146
7 Claims. (Cl. 235—61)



1. A binary multiplying device for two quantities including a first binary counter circuit having a plurality of trigger circuits, means for applying one of said quantities to said counter as a multiplicand, a second binary counter circuit having a plurality of trigger circuits, means for transferring said multiplicand to said second counter, means for repeating said transfer a number of times corresponding to the occurrence of

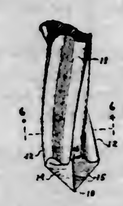
binary 1 terms in said other quantity as a multiplier, means including a plurality of normally stable trigger circuits each adapted to polarization reversals for predetermined small time intervals for shifting the count on said second counter circuit one binary place a number of times corresponding to the number of binary terms in said multiplier, and means including said second counter and said normally stable trigger circuits for deriving the binary sum of said repeated multiplicands.

2,404,048
DRILL
Franklin G. Gepfert, Shaker Heights, Ohio
Application August 5, 1944, Serial No. 548,150
2 Claims. (Cl. 77—70)



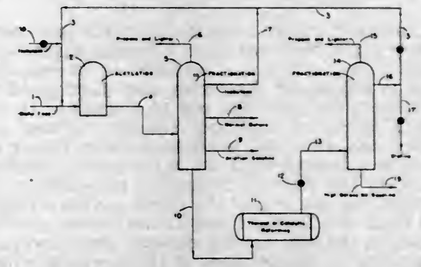
1. A drill of the type described, comprising in combination, a round shank portion receivable by a holder, a body portion substantially triangular in cross section integral with the shank portion and having spiraliform flutes thereon forming helical fillets therebetween, the said flutes having substantially flat surfaces and the said fillets having peripheral surfaces concentric with the said shank portion, and a pyramidal end portion integral with the body portion and having flat facets thereon forming straight radially and longitudinally extending ridges therebetween, each of the said facets abutting a flute and forming thereat a lateral ridge, each of the said radially extending ridges abutting a fillet and all of the same forming a sharp point at the axis of the drill, the said body and end portions having a concave groove at each lateral ridge, and each of the said grooves consuming a substantially large portion of the facet thereat.

2,404,049
DRILL
Franklin G. Gepfert, Shaker Heights, Ohio
Application August 30, 1944, Serial No. 551,842
2 Claims. (Cl. 77—70)



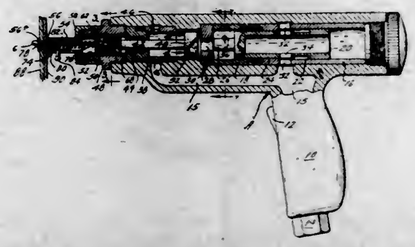
1. A drill, comprising in combination, a shank portion receivable by a holder, an undulated body portion integral with the shank portion and having a plurality of alternately extending concave and convex portions, a first two adjacent concave and convex portions forming a lateral spiraliform wave and a second two adjacent convex and concave portions forming an acute helical fillet, and an end portion integral with the body portion having a projecting axial point thereon, the said end portion also having ridges extending longitudinally and radially from the said point to each of the helical fillets and facets between the ridges extending to each of the spiraliform waves.

2,404,050
PRODUCTION OF MOTOR FUELS
George R. Gilbert, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 22, 1943, Serial No. 476,709
1 Claim. (Cl. 196—52)



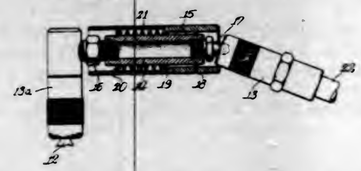
A process for converting products resulting from the alkylation of isoparaffins with olefins into materials of higher octane number and materials of a less saturated nature which comprises reforming an alkylate fraction boiling above 300° F. at temperatures between 750° F. and 1100° F. and at pressures between 100 pounds per square inch gauge and 600 pounds per square inch gauge for a time sufficient for production of a product of lower molecular weight and boiling point than the charge to an extent of not substantially more than 30% by weight of said charge, and recovering by distillation of said product olefins and a high octane number substantially saturated fuel.

2,404,051
BLIND RIVETER
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application November 3, 1943, Serial No. 508,814
8 Claims. (Cl. 218—19)



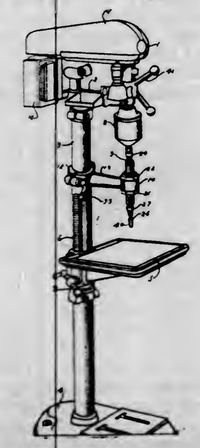
1. A blind riveter comprising a peening stem having a peening head adapted to extend through the bore of a tubular rivet, a stem backing element adapted for entering said bore and together with said stem substantially filling the same, an anvil for bucking the rivet, pneumatically operated means adapted to intermittently draw said peening head toward said rivet and said rivet against said anvil to peen the rivet, and pneumatically operated means for opposing the first pneumatic means.

2,404,052
LUBRICATION COUPLER
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application April 26, 1944, Serial No. 532,741
1 Claim. (Cl. 285—169)



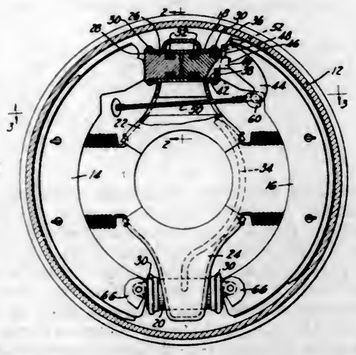
A coupler for high pressure lubricant lines comprising a tube terminating in a headed fitting with which a jaw coupler is adapted to be engaged when in alignment therewith, and disengaged by swinging it into position out of alignment therewith, a sleeve on said tube slidable between retracted and extended positions, a stop flange on said tube adjacent each end, a movement limiting flange on the sleeve between the stop flanges on the tube, the rear end of the sleeve having a larger bore than the forward end of the sleeve and the flanges on the tube having external diameters corresponding to the portions of the sleeve in which they are located and forming bearings serving to space the sleeve from the tube and maintain the tube and sleeve in concentric relation, the flange on the sleeve likewise assisting the spacing of the sleeve from the tube and serving as a bearing between the sleeve and tube, and a coil spring confined in the enlarged bore of the sleeve about the tube and between the flange on the tube and that of the sleeve and normally maintaining the sleeve in extended position.

2,404,053
THREADING REGULATOR FOR DRILL PRESSES
William C. Glover, Jr., Lee's Summit, Mo.
Application August 21, 1944, Serial No. 550,348
11 Claims. (Cl. 10—136)



2. A device of the character described comprising, a standard, a frame supported on said standard, a reversible rotating clutch carried by said frame, an arm mounted on said standard, a cylindrical bearing on the outer end of the arm, said bearing having tapered inner side walls, an internally threaded bushing having its outer side walls tapered to conform to the inner wall of said bearing, a longitudinal groove in one side of said bushing, external threads on the outer ends of said bushing for receiving internally threaded nuts to hold said bushing on said bearing, an externally threaded shaft threaded into said bushing, a threaded tap carried by the lower ends of said shaft, means connecting the upper end of said shaft to said clutch, and means for rotating said shaft.

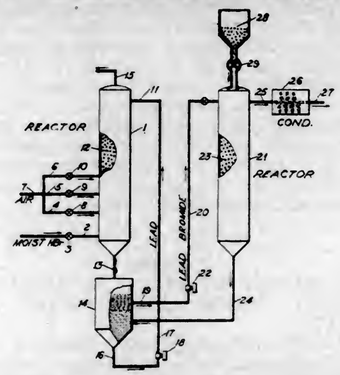
2,404,054
BRAKE CONSTRUCTION
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 13, 1944, Serial No. 567,935
3 Claims. (Cl. 188—106)



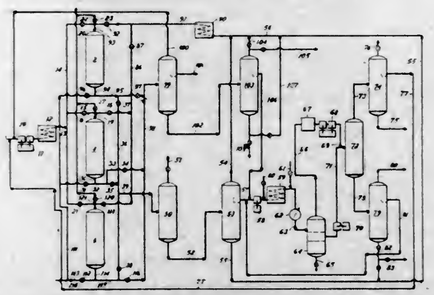
1. In a brake having a hydraulic cylinder and two shoes adapted to either be applied by or anchor through said cylinder, a first piston reciprocable in said cylinder having a flange limiting the inward movement of the piston and adapted to transfer anchoring torque of the first shoe to the cylinder wall, a second piston in the cylinder butting against the first piston and free to move either inwardly or outwardly of the cylinder, an anchor member adapted to transmit the torque of the second shoe directly to the cylinder wall, said second piston having a projection extending through an opening in the anchor member, a lever pivoted to the second shoe and to the projection on the second piston, and means for actuating the lever to spread the ends of the shoes, the second piston acting through the first piston on the first shoe.

2,404,055
PREPARATION OF HALIDES
Everett Gorin, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 19, 1943, Serial No. 479,803
12 Claims. (Cl. 23—96)

12. The process for the production of an aluminum halide catalyst from a member of the group consisting of metallic aluminum, aluminum carbide, and an alumina-coke mixture, and a moist halogen acid selected from the group consisting of moist hydrochloric acid and moist hydrobromic acid which comprises passing the mixture of halogen acid and water in the vapor phase at a temperature between 300° C. and 700° C. in contact with a metal selected from the group consisting of lead, zinc, tin, silver, copper and mercury, whereby the corresponding metal halide is formed by the action of the halogen acid on the metal, separating the water from the metal halide, reacting the metal halide at a temperature above 300° C. with a member of the group consisting of metallic aluminum, aluminum carbide, and an alumina-coke mixture, collecting the evolved aluminum halide vapor, and condensing and recovering the aluminum halide catalyst.



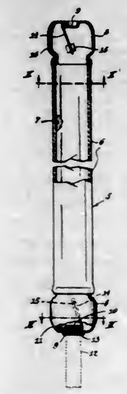
2,404,056
MANUFACTURE OF ISOPRENE
Everett Gorin and Alex G. Oblad, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 12, 1944, Serial No. 558,438
8 Claims. (Cl. 260—680)



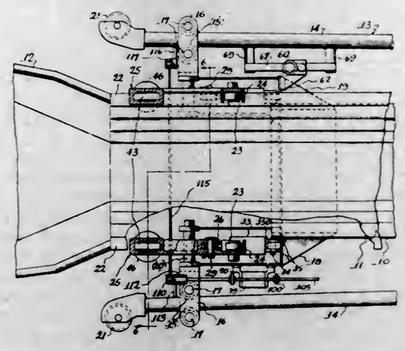
1. The process of producing isoprene comprising the steps of (1) dimerizing propylene over a dimerization catalyst, (2) fractionating the polymerized product to obtain therefrom a cut boiling within the range of from 60° to 70° C., (3) pyrolyzing said 60° to 70° C. cut, and (4) fractionating the pyrolyzed 60° to 70° C. product obtained in step 3 to recover substantially pure isoprene.

2,404,057
END-CAP ELECTRODE FOR DISCHARGE LAMPS
Daniel S. Gustin, Bloomfield, and Alva L. Herman, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 24, 1943, Serial No. 480,304
4 Claims. (Cl. 176—126)

1. A discharge lamp comprising an envelope containing an ionizable medium, a pair of electrodes between which a discharge occurs upon the application of a potential therebetween, said electrodes being hermetically sealed to the peripheral edge of the extremities of said envelope to dispose them entirely beyond the longitudinal limits of said envelope to substantially prevent sputtering of the electrode material onto the envelope wall and to increase the effective area of the envelope through which radiations are emitted for a given size envelope, and said electrodes forming a terminal readily engageable with a socket with at least one of said electrodes having a recess therein, and an exhaust stem hermetically sealed to the surface of said electrode both within and outside of said recess and fused thereto to substantially close said recess.



2,404,058
SHAKER CONVEYER
Loy D. Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 16, 1944, Serial No. 563,633
23 Claims. (Cl. 198—220)



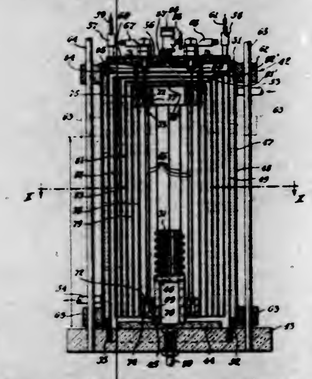
1. In a feeding device for shaker conveyers, a reciprocating trough, an extensible trough, and means for moving said extensible trough relative to said reciprocating trough including two friction grip blocks reciprocably moved by one of said troughs and disposed on each side of the other of said troughs for engagement therewith during alternate strokes of the conveyer, fluid operated means for moving said grip blocks to a gripping position, and valve means operated by reciprocable movement of the conveyer for supplying fluid under pressure to said fluid operated means during alternate strokes of the conveyer.

2,404,059
ELECTRIC FURNACE
Roy D. Hall, Pottersville, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 2, 1944, Serial No. 556,763
13 Claims. (Cl. 13—22)



3. In an electric furnace, in combination, an insulating housing, a refractory U-shaped insulating frame enclosed therein, and a refractory heating element carried on said frame, said heating element spanning the distance between the upper portions of the sides of said frame so as to radiate heat directly to the interior.

2,404,060
HIGH TEMPERATURE FURNACE
Roy D. Hall, Millington, and Emilio Romanelli, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 3, 1944, Serial No. 520,874
7 Claims. (Cl. 13—20)

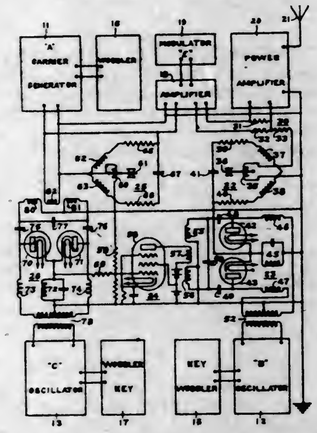


5. A furnace for high temperatures comprising a refractory metal element shaped as a series of sections, to be heated by the passage of electricity therealong, and arranged to directly radiate heat upon material to be treated, and a series of reflecting hollow cylindrical elements successively surrounding said metal element, the inner of said elements being formed of molybdenum, intermediate elements consisting of stainless steel, and outer elements consisting of sheet steel.

2,404,061
METHOD FOR FILTERING
Julian P. Hamilton, Pelly, and Charles F. Jones, Goose Creek, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 19, 1943, Serial No. 506,898
5 Claims. (Cl. 210—201)

1. A method for filtering wherein a viscous liquid containing solids and substantial amounts of tarry materials capable of penetrating through a substantial thickness of precoat is passed through a moving filter screen provided with a substantial thickness of precoat, comprising the steps of continuously removing a thin layer of precoat and deposited solids from the filtering element while the viscous liquid is being passed through the element, terminating the filtration of viscous liquid while a substantial thickness of the precoat adjacent the screen is uncontaminated with the tarry materials, removing a layer of the remaining precoat having a thickness of the order of ½ inch and including at least that portion of the remaining precoat contaminated by the tarry materials, subsequently providing the filter screen with the precoat layer of substantial thickness and repeating the cycle.

2,404,062
SELECTIVITY BY PHASE QUADRATURE USING TRIPLE SELECTIVITY CIRCUITS
John Hays Hammond, Jr., and Ellison S. Purington, Gloucester, Mass., assignors, by direct and mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 19, 1941, Serial No. 403,132
13 Claims. (Cl. 250—6)



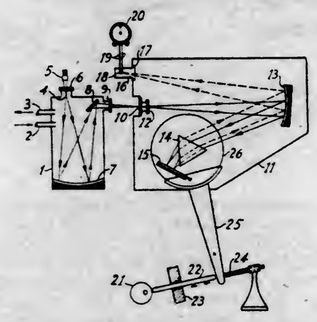
1. The steps in a method of signalling which comprise generating a carrier frequency and two auxiliary frequencies, combining the carrier frequency and the two auxiliary frequencies to produce a spectrum comprising the carrier and two groups of three side frequencies, said two groups being symmetrically located one above and the other below the carrier frequency, and signalling by varying the phase relation prevailing among the seven components of said spectrum.

2,404,063
FOUNTAIN PEN
Emmett Healy, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application April 27, 1944, Serial No. 532,953
14 Claims. (Cl. 120—51)



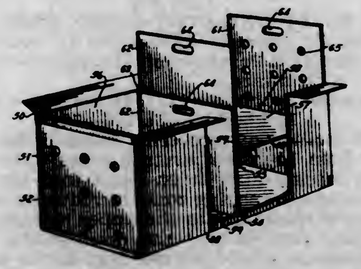
1. In a fountain pen including a barrel, a unitary front end structure comprising a point, ink feeding means for controlling the flow of ink to the point, an enclosing shell, and a nipple secured in the shell and holding the point and feeding means in operative relation with the shell, said nipple being constructed for detachable engagement with the barrel whereby the front end structure may be detached from the barrel as a unit.

2,404,064
APPARATUS FOR INVESTIGATING ABSORPTION SPECTRA OF SUBSTANCES
John J. Heigl, Cranford, and James A. Wilson, Linden, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1943, Serial No. 516,348
9 Claims. (Cl. 250—43)



1. An apparatus for determining the amount of one component of a mixture by the characteristic absorption spectra of said component comprising in combination a source of radiation, means for passing said radiation through said mixture, means for resolving unabsorbed radiation after its passage through said mixture into its component wave lengths, means for scanning said resolved radiation, means for selecting a plurality of bands from said scanned radiation, means for converting each of said bands into electrical energy, means for obtaining an averaged value of any desired number of said energies, and means for balancing said averaged value against the averaged value of the remaining energies.

2,404,065
CONTROLLED VENTILATED CONTAINER
Irving Hill, Lawrence, Kans., assignor to The Lawrence Paper Company, Lawrence, Kans., a corporation of Kansas
Application December 31, 1943, Serial No. 516,411
2 Claims. (Cl. 229—42)



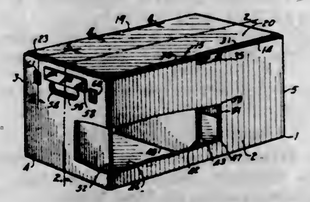
1. An egg case comprising a container having bottom, side and end walls, said end walls of the container having ventilation openings therein, and a plurality of liners removably mounted in the container, including bottom members and upwardly extending panels, the abutting panels of each liner forming a partition separating the container into compartments, the other panel of said liners being provided with ventilation openings registering with the ventilation openings in the end walls of the container, and said liners being reversible for controlling ventilation of the respective compartments.

2,404,066
CAP REMOVER AND SUPPORT THEREFOR
Maxwell H. Hill, Rochester, N. Y.
Application May 4, 1944, Serial No. 534,117
1 Claim. (Cl. 206—79)



An article of manufacture comprising a series of crown cap removers, each cap remover including a loop at one of its ends and a spaced pair of legs at its other end, each of said legs being formed from a piece of wire doubled back on itself, said legs defining a relatively short notch therebetween and a strip of material having substantial thickness, the notches formed by the pairs of legs of said cap removers having the edge of said strip wedged therein whereby the looped ends of said removers project in parallel relation beyond said strip.

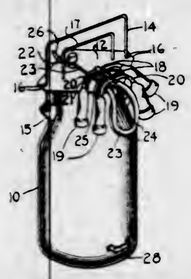
2,404,067
CONTAINER AND CLOSURE THEREFOR
Justin D. Hill, Lawrence, Kans., assignor to The Lawrence Paper Company, Lawrence, Kans., a corporation of Kansas
Application December 31, 1943, Serial No. 516,413
6 Claims. (Cl. 229—45)



1. In a device of the character described, a container body having bottom, side and end walls, flaps extending inwardly and downwardly on the end walls, a detachable cover for the container body, downwardly extending flaps on the ends of said cover for insertion into the interior of the container body adjacent the ends thereof, said cover flaps having reversely turned tabs forming

shoulders engageable with the flaps on the container body end walls for securing the cover on the container body, inwardly extending flaps on the container body side walls, said side wall flaps having slots therein intermediate the ends of the container body, and downwardly extending tongues on the sides of the cover adjacent the central portion thereof, said tongues having slots for insertion of said tongues in said slots in said side wall flaps for securing the central portion of the cover to the container body.

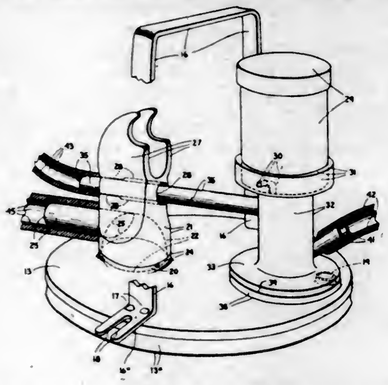
2,404,068
MILKING MACHINE
Ralph L. Hinman, Oneida, N. Y.; Oneida Valley National Bank, executor of said Ralph L. Hinman, deceased, assignor to Hinman Milking Machine Co., Inc., Oneida, N. Y., a corporation of New York
Application July 26, 1944, Serial No. 546,588
5 Claims. (Cl. 31—58)



1. A milking machine of the class set forth comprising, in combination, a milk receiving pail, a bail having a cross-bar and straight and parallel side portions located in a common plane and pivoted to the pail to swing about an axis extending across the pail close to the top of the pail, a combined milking means support and pail cover having a pair of opposed slots extending inward from its perimeter with the side walls of each slot closely embracing a different one of the side portions of the bail, milking means connected with said combined support and cover, and a lifting handle rigidly held to said combined support and cover within the confines of said bail for grasping of said handle and the bail cross-bar by a human hand to first lift the combined support and cover and to then lift both the pail and said combined support and cover conjointly, the spacing between the handle and the bail being such that the combined support and cover may be cocked relatively to the bail to disengage the bail side portions from said slots in the combined support and cover for removal of the latter from the machine.

2,404,069
MILKING MACHINE
Ralph L. Hinman, Oneida, N. Y., assignor to Hinman Milking Machine Co., Inc., Oneida, N. Y., a corporation of New York
Application November 4, 1944, Serial No. 561,853
12 Claims. (Cl. 31—62)

1. A vacuum type milking machine of the kind wherein teat cup air lines and a main suction air line are connected by two hoses to two air conduit nipples of pulsator means mounted on a milk receptacle cover which has an upstanding air conduit nipple affording communication between a milk receptacle and the pulsator means, characterized by said receptacle cover having fixedly held thereto rigid upstanding means provided with a substantially horizontal bore extending therethrough, by the pulsator means carrying at the lower end thereof a compressible gasket which extends below the lower end of said pulsator means and is contactively seated on the cover around said upstanding cover nipple, and



by the extension of one of said nipples of the pulsator means slidably through said bore in said upstanding means with the outer end of said nipple projecting beyond said upstanding means to detachably receive one end of one of said hoses to prevent disconnection of the pulsator means from the cover while said hose is connected to said nipple.

2,404,070
FILAMENTARY CATHODE
Julius Hirmann, Hillside, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application February 24, 1943, Serial No. 476,906. Divided and this application December 5, 1944, Serial No. 566,753
3 Claims. (Cl. 176—126)

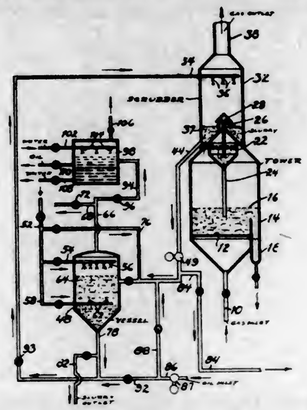


1. A tabbed filamentary cathode comprising a wire, two separate sheet metal pieces on opposite sides of the wire at the end of the wire, the metal pieces and the wire being welded together, the welded region of the metal pieces terminating inwardly from the edge of the sheet metal pieces from which the wire extends.

2,404,071
SCRUBBING DUST-LADEN GASES
Charles E. Jahnig, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 17, 1943, Serial No. 502,720
13 Claims. (Cl. 196—52)

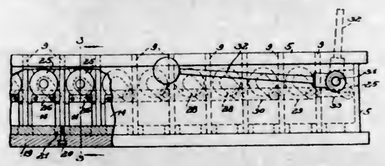
1. A method of recovering finely divided particles from high temperature gases which comprises passing dust laden gases into the lower portion of a scrubbing zone, introducing a liquid scrubbing medium into the upper portion of the scrubbing zone so that the downflowing scrubbing medium scrubs out the dust in the gases to form a slurry, removing the slurry from the bottom of the scrubbing zone, the slurry being at a relatively high temperature, directly contacting

the hot slurry with an easily vaporizable liquid in a contacting zone to cool the slurry and to



form vapor and recycling at least part of the cooled slurry to said scrubbing zone.

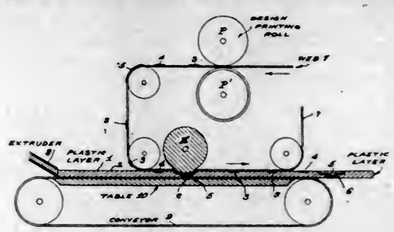
2,404,072
MAGNETIC DEVICE
Samuel Karasick, Great Barrington, Mass.
Application May 19, 1943, Serial No. 487,838
5 Claims. (Cl. 175—367)



1. In a magnetic holding device, a work-holding support comprising at least two parts of ferromagnetic material mounted in spaced relation with non-magnetic material therebetween to be bridged by a work piece to be held thereon, a permanent magnet mounted with one of its poles in spaced relation to one of said parts, said last-mentioned pole and an adjacent portion of said last-mentioned part being provided with curved opposing surfaces, ferromagnetic means connecting the other pole of said magnet to the other of said parts, said work support and said magnet being secured in immovable relation with respect to each other, and a valve element having curved surfaces complementary to said first-mentioned curved surfaces, said element being rotatable at will to place only said complementary surfaces into contact or out of contact whereby the reluctance of the space between said magnet and said first-mentioned part may be changed to control the holding or releasing of the work piece on the support.

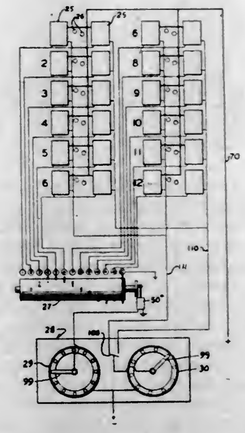
2,404,073
METHOD OF MAKING ORNAMENTAL ARTICLES
Edward Karfiol, Great Neck, and William A. Rochm, Rockville Centre, N. Y., assignors to Royal Lace Paper Works, Brooklyn, N. Y., a corporation of New York
Application November 25, 1944, Serial No. 565,156
4 Claims. (Cl. 41—33)

1. The hereindescribed method which comprises: printing a predetermined design upon one side of a transfer sheet, thereafter bringing the thus printed side of the sheet into facial contact with a layer of organic plastic, bringing an embossing device into registration with at least part of said printed design and forcing that part of the printed design against the plastic layer to emboss that part of the printed design and layer



with different parts of the printed design in different relief, and thereafter stripping said sheet from the plastic layer, the printed design on said sheet comprising printed material having bonding affinity with the plastic layer, whereby the printed design remains on the plastic layer when the transfer sheet is stripped therefrom.

2,404,074
ANNUNCIATOR SYSTEM
Thomas A. Keen, San Mateo, Calif., assignor of one-half to Hannah M. Smith, Chicago, Ill.
Application February 29, 1944, Serial No. 524,493
3 Claims. (Cl. 177—337)

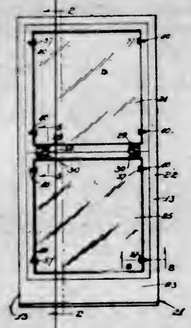


3. In an annunciator system having a pair of lamp banks and means for selectively lighting the lamps therein to present a numeral in each bank, lamps representing a dash between the numerals presented and means for lighting said dash automatically upon the presentation of certain combinations of numerals in the banks.

2,404,075
WINDOW STRUCTURE
William Kummerow, Chicago, Ill.
Application June 30, 1943, Serial No. 492,842
3 Claims. (Cl. 160—207)

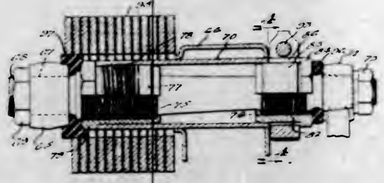
1. A window construction comprising a frame, a pair of aligned sash members arranged in said frame, means for mounting said sash members in said frame for vertical slidable movement with

respect to the frame, means connecting said sash members together for swinging movement with respect to each other whereby either of said sash members may be swung from a vertical position



in said frame, and means for releasably latching said sash members against slidable movement relative to the frame when one of said sash members is swung from said position within said frame.

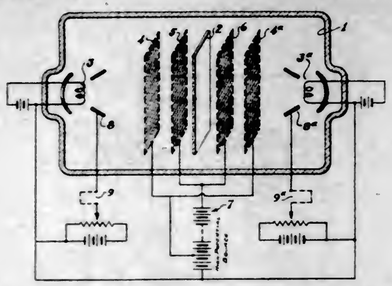
2,404,076
ADJUSTABLE THREADED CONNECTION
John W. Leighton, Port Huron, Mich.
Application May 4, 1944, Serial No. 534,020
1 Claim. (Cl. 287—96)



A pivotal connection comprising a tubular element, a bushing threaded into and fixed in one end portion of the element and being internally threaded, a second internally threaded bushing having an internal diameter smaller than that of the first bushing and being axially slidable in the other end portion of the element, the latter portion being axially slotted, a shaft or trunnion element extending through the tubular element and having larger and smaller threaded portions engaging the threads of the bushings respectively, the smaller portion being bodily movable through the larger bushing opening without threading it therethrough, means for clamping the slotted end of the tubular element about the bushing therein, and a member connected to one end of the shaft so as to turn therewith.

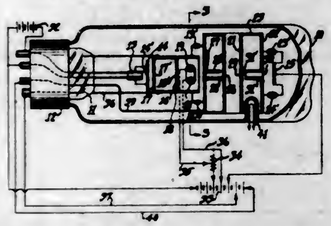
2,404,077
APPARATUS FOR DEVELOPING LIGHT
Humboldt W. Leverenz, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 12, 1942, Serial No. 454,501
4 Claims. (Cl. 176—122)

1. Apparatus for developing light comprising a cathode and anode to develop a beam of high velocity electrons, an imperforate luminiferous material target sufficiently thin as to allow a part of the electrons in said beam to pass therethrough with diminished velocity and an anode adjacent said target on the side thereof opposite said cathode to re-direct and accelerate the



electrons passing through said target back to said side of the target.

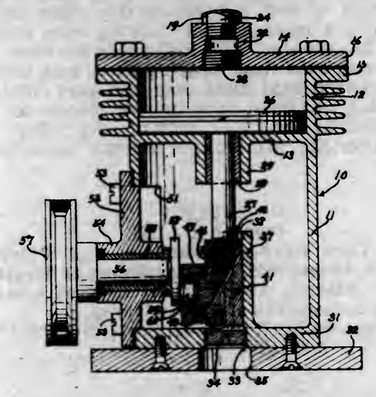
2,404,078
ELECTRON DISCHARGE DEVICE
Louis Malter, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 28, 1943, Serial No. 484,818
10 Claims. (Cl. 250—27.5)



1. An electron discharge device having means including a cathode for supplying a beam of electrons and a collector toward which the path of said beam of electrons is directed, an annular hollow resonator positioned between said cathode means and collector in the path of said beam, said resonator having a transverse section of the form of an annulus in a plane parallel to the beam path and confining an annular space and provided with registering apertures in the walls thereof, said registering apertures lying along a transverse axis of said resonator and through which the path of the beam of electrons is directed, oppositely disposed deflecting electrodes positioned within the annular space confined by said resonator adjacent one pair of adjacent registering apertures for deflecting the beam of electrons across another of said registering apertures.

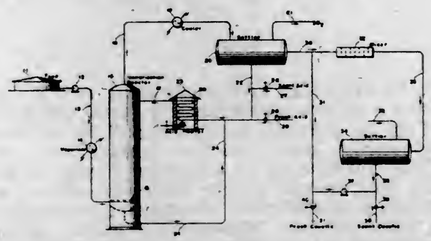
2,404,079
COMPRESSOR
Pietro Maniscalco and Peter Maniscalco, Jr., Chicago, Ill.; said Peter Maniscalco assignor to said Pietro Maniscalco
Application May 30, 1942, Serial No. 445,154
10 Claims. (Cl. 230—180)

1. In a compressor of the character disclosed and which has a crank chamber with a cylinder at an end thereof, a cylinder wall between them, and a piston in said cylinder with a piston rod slidable through said wall and having its end extending into said chamber; a guide means comprising a guide member fixed to and extending into said chamber from a wall thereof and having a guide channel coaxial with the axis of the piston and the piston rod, a shoe secured to the piston rod and having a runner slidable along said guide channel for maintaining the piston and piston rod in axial position during their



reciprocations, and a drive shaft in said chamber and having operative connection with said shoe for reciprocating said shoe and said runner along said guide channel.

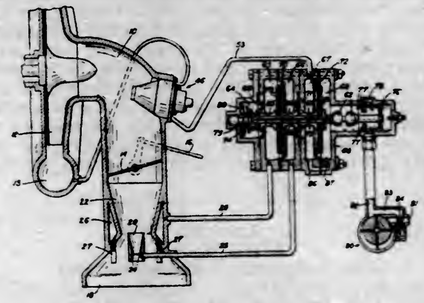
2,404,080
CATALYTIC CONVERSION PROCESS
Thomas B. McCulloch, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 15, 1943, Serial No. 506,327
9 Claims. (Cl. 260—683.4)



1. The isomerization of normal paraffins to isoparaffins comprising the steps of contacting a normal paraffin hydrocarbon with sulfuric acid maintained at a temperature in the range of 300° to 500° F. to cause the isomerization of the normal paraffin hydrocarbon and subsequently separating the resulting isomerized hydrocarbon.

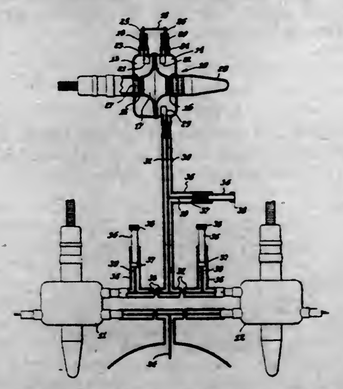
2,404,081
CHARGE FORMING DEVICE
Frank C. Mock and Edward J. Partington, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application November 30, 1938, Serial No. 243,067. Divided and this application October 23, 1942, Serial No. 463,064
4 Claims. (Cl. 261—24)

1. In a fuel nozzle assembly, an elongated hollow nozzle body provided with a fuel pressure chamber at one extremity and a valve seat at its opposite extremity having a discharge port therein, a valve member having a body portion slidably received in said nozzle body and a seat portion adapted to engage said seat, a member having a Venturi-shaped fuel discharge passage in substantially axial alignment with and spaced from said discharge port, said valve member having an elongated extension projecting through said passage and terminating in an enlarged tip against which fuel is discharged to effect atomization thereof, and means for conducting air under pressure to the space anterior to said Venturi-shaped discharge passage for admixture of air with the fuel as the latter is discharged from said port through said passage against said tip.



3. In a charge forming device, an induction passage terminating in an intake manifold, a throttle controlling said passage, a supercharger in the induction passage posterior to the throttle adapted to discharge into the intake manifold, a fuel nozzle positioned to discharge atomized fuel into the induction passage between the throttle and the supercharger, means including a conduit for supplying fuel under pressure to the nozzle, a valve in said conduit, means responsive to pressure of the fuel for controlling said valve, and a conduit leading from the intake manifold to the nozzle for admixing atomizing air with the fuel prior to its discharge from the nozzle, whereby the quantity of atomizing air admitted to the nozzle is in direct relation to charging pressure.

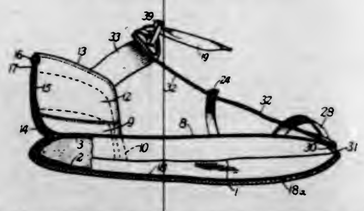
2,404,082
ELECTRON DISCHARGE DEVICE
Ilia E. Mouromtseff, Montclair, and George M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1942, Serial No. 427,118
1 Claim. (Cl. 179—171)



In an electron discharge device having hollow-body resonators, the combination of a plurality of units each having a buncher resonator and a

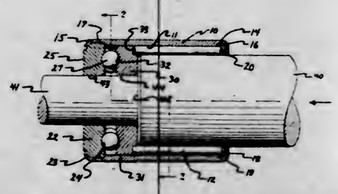
catcher resonator, means electrically connecting the catcher resonator of one unit to the buncher resonators of both a second unit and a third unit, said first unit thereby exciting the oscillation of the buncher resonators of said second and third units and augmenting the power output thereof, said second and third units having a pair of concentric line connections of which one joins the inputs of said second and third units and the other joins the outputs thereof, a concentric line connection from an intermediate part of said connection joining inputs and connecting with the output of the first unit, said second and third units thereby being in parallel to each other and in series with the first unit, and means for matching phase relations of the power of said units comprising a matching stub extending laterally from the concentric line from the first unit and comprising two other matching stubs extending laterally from the concentric line joining the inputs of the second and third units and on opposite sides of said concentric line from the first unit.

2,404,083
FOOTWEAR
Alan E. Murray, Wilmington, Del.
Application November 2, 1943, Serial No. 508,705
2 Claims. (Cl. 36—8.5)



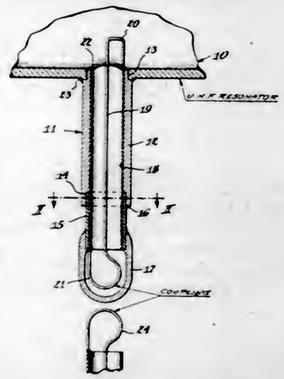
1. A ground contacting foot support comprising a sack having a yielding material tightly stuffed therein, said support having at both the top and bottom oppositely transversely substantially equally sharply curved normally convex exteriors extending the entire width of the foot support, each of said top and bottom convex exteriors constituting a single crown-shaped curvature transversely, enabling the downwardly divergent forces applied therein to meet the upwardly divergent reaction forces in the support, with an underneath supporting contact restricted transversely to less than the width of the foot support, the bottom of said foot support being also curved longitudinally throughout its entire length, and means carried by the foot support to attach the same to the wearer.

2,404,084
BEARING
John Richard Norton, West Hartford, Conn.
Application June 8, 1945, Serial No. 598,247
5 Claims. (Cl. 308—174)



1. A roller and thrust bearing unit comprising a shell having an internal cylindrical surface forming a roller raceway, a series of rollers engaging said raceway, means at one end of said shell providing a groove for accommodating the adjacent ends of the rollers to prevent them from moving radially inwardly, a ball bearing race fixed to and carried by the other end of said shell, a rotatable ball bearing race slidably fitting in said shell and interposed between said rollers and said fixed bearing race, and bearing balls between said fixed race and said rotatable race, said rotatable race having means for accommodating the inner ends of said rollers and preventing the same from moving radially inwardly.

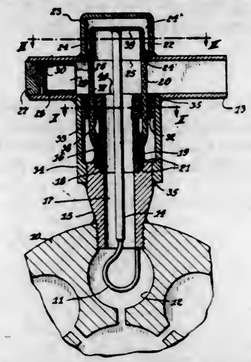
2,404,085
COAXIAL LINE
Ernest Carl Okress, Montclair, and Polykarp Kusch, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 24, 1942, Serial No. 440,274
5 Claims. (Cl. 178—44)



1. An electrical wave conducting means comprising a hollow encasement of metal characterized by its strength irrespective of its electrical conductivity, means of less conductivity electrically constituting an extension of said encasement, and means within both the encasement and the said extension coextensive with and at the inner surfaces thereof and having greater electrical conductivity than either said encasement or said extension.

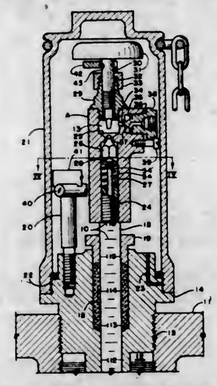
2,404,086
COUPLING DEVICE
Ernest Carl Okress, Montclair, Donald Eric Nelson, East Orange, and Robert Curtis Retherford, Newark, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1942, Serial No. 461,134
8 Claims. (Cl. 178—44)

4. A coupling device comprising a coaxial line having a metallic hollow structure and a rod member axially thereof and projecting from both ends thereof, said hollow structure having a thimble constituting one end thereof and having an envelope projecting from the other end thereof, a wave guide, said coupling device projecting through said wave guide and having the upper end of said hollow structure terminating in the plane of one wall of said wave guide, an inverted cup at the other end of said coupling device, said cup having its marginal edge terminating in the plane of an opposite wall of said wave guide, and a housing between said wave guide and coupling device exterior of said hollow structure and extending from adjacent the upper part of said



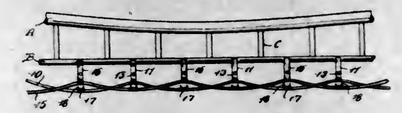
thimble to the wave guide and constituting the supporting mechanical connection between the coupling device and the wave guide.

2,404,087
GAUGING AND SAMPLING DEVICE
Harrison O. Parsons, Houston, Tex.
Application March 13, 1945, Serial No. 582,558
4 Claims. (Cl. 73—298)



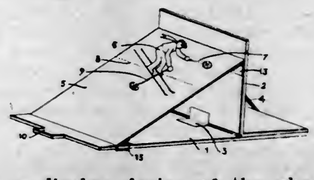
1. A gauge suitable for determining the level of liquid in a container under superatmospheric pressure comprising, in combination, a base member defining an opening, an elongated body having a longitudinal passage extending therethrough slidably arranged in the opening in said base member, packing means arranged to seal the space between the base member and the elongated body, a valve seat defined in the lower end of said elongated body through which said passage extends, a valve seat defined in the upper end of the body through which the passage extends, a first valve member arranged in the passage adjacent the lower valve seat, means biasing said first valve member against said valve seat, a second valve member arranged in the body adjacent the upper valve seat, means biasing the second valve member against the upper valve seat, a valve stem mounted on the upper end of said elongated body and arranged for movement with respect thereto for forcing said second valve member away from the upper valve seat and a rod member mounted in the elongated passage between the first and second valve members and arranged to force the first valve member away from the lower valve seat upon movement of the second valve member away from the upper valve seat.

2,404,088
WEAR PROTECTING DEVICE FOR PARALLEL CONDUCTING WIRES
Hugh W. Pinkerton, Lakewood, Ohio
Application June 28, 1944, Serial No. 542,557
5 Claims. (Cl. 191—33)



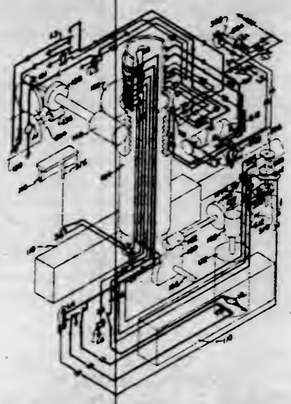
1. The combination, with a messenger cable, a pair of contact wires and hanger clips of substantially equal length connecting the contact wires with the messenger cable thereby to support the contact wires from said messenger cable, of wearing pieces or spacers secured to each of the said contact wires and positioned thereon so as to register with the hanger clips for the other of said wires and projecting beyond that surface of each wire which is presented toward the adjacent surface of the other wire and beyond the surfaces of the hangers by which such other wire is supported.

2,404,089
DISPLAY DEVICE
Raphael C. Pollock, New York, N. Y.
Application March 30, 1940, Serial No. 326,885
6 Claims. (Cl. 40—126)



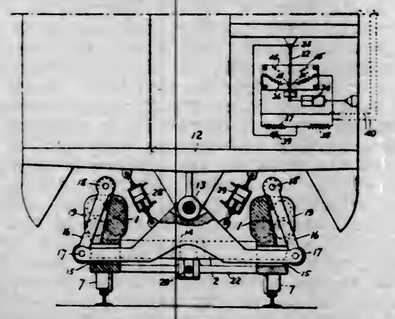
1. In a display device of the character described, a base sheet and a foldable display arrangement mounted thereon, said arrangement consisting of a plurality of display members cooperating to build up the entire display arrangement, at least one of said members being hinged to the base sheet and at least one further member being hinged to base carried members, all display members assuming either a folded or a display position and each being provided with an operative edge which has to be uncovered to allow it to assume its display position, elastic propelling means attached to each of said display members, tensioned when said members assume their folded position, an envelope having a top and bottom sheet housing said base sheet and display arrangement, from which the base sheet is withdrawn to unfold the display arrangement and to bring its members into their display position, means for timing the display movement of the display members comprising a releasing and timing edge cut transversely into one of the sheets of the envelope, the sections of said edge under which the display members are passing during withdrawal being arranged at different distances from the operative edges of the display members, when the display device is housed in the envelope, said distances being so selected that the release of the display members and their movement to the display position is timed in a predetermined manner during withdrawal, the operative edges of the display members uncovered during withdrawal being arranged on the base sheet at predetermined different distances from a transverse line drawn perpendicularly to the direction of withdrawal through the foremost point of the base sheet.

2,404,090
GUN TURRET POWER CONTROL
George W. Pentius, III, Arthur P. Wilson, and Frank V. Kuzmitz, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 11, 1942, Serial No. 438,602
9 Claims. (Cl. 172—179)



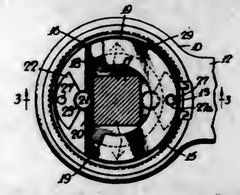
9. A device for controlling a plurality of motors comprising a continuously rotated series of cams coaxially displaced, a series of breaker arms for supplying current at predetermined intervals and adapted to be actuated by said cams, a manual control means including a single handle movable about two axes for varying the intervals that current is supplied through said breaker arm, said handle being movable about one of its axes for selecting one of said motors to be driven and movable about its other axes for selecting another of said motors to be driven, and cam means connected to said manual control means and responsive to the movement thereof for controlling the intervals of current flow through said breaker arms.

2,404,091
RAILWAY CAR TILTING APPARATUS
John H. Porteus, Wellesley, Mass., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application April 22, 1944, Serial No. 532,341
2 Claims. (Cl. 105—199)



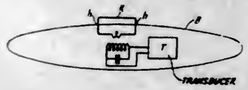
1. A railway car truck having a frame and wheel yokes pivotally mounted thereon at each side of the truck, horizontal springs interposed between said yokes and truck frame, power operated means for banking the truck frame by moving the springs away from each other on one side of the truck and for moving them toward each other on the other side thereby to tilt the truck frame, and means for controlling said power means so as to effect said banking action.

2,404,092
RATCHET MECHANISM
Frederick A. Reynolds, Denver, Colo.
Application January 17, 1944, Serial No. 518,559
10 Claims. (Cl. 192—45.1)



1. A ratchet mechanism, comprising, in combination, a cylindrical housing, a turning head positioned therein for rotation about the axis thereof, a pawl pivoted to each side of the turning head and positioned between the head and the wall of the housing, the outer end of the pawl being curved on a radius greater than the distance from the pivot point to the housing wall and less than the radius of the inner surface of the housing wall, a reversing disk mounted for rotation about the axis of the housing, means comprising a spring for exerting a force tending to rotate the turning head relative to the reversing disk, and means for effecting a lost motion interlock between the reversing disk and the pawls.

2,404,093
ANTENNA
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1941, Serial No. 400,195
10 Claims. (Cl. 250—33)

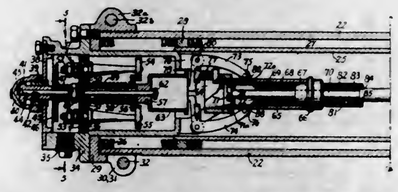


1. In combination, a pair of resonant systems, the first of said systems having appreciable radiation resistance, the second of said systems being enclosed within said first system, and means for coupling said systems, said means comprising a member coupled with said second system and having a portion extending to the exterior of said first system, said member having associated therewith an electromagnetic field of the same nature as the electromagnetic field at the exterior of said first system at the position where said member extends, said extending portion being at a position where the exterior field is a maximum.

2,404,094
MOTOR FUELS
Anthony E. Robertson, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 1, 1944, Serial No. 516,710
8 Claims. (Cl. 44—53)

1. A motor fuel comprising about 80 to 98% of methanol and a minor proportion of a hydrocarbon of 3 to 5 carbon atoms selected from the group consisting of aliphatic and cyclo-aliphatic hydrocarbons, the amount of said hydrocarbon being sufficient to raise the Reid vapor pressure of the blend to 13 lbs. per square inch at 100° F.

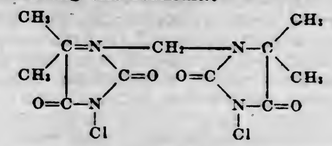
2,404,095
ACCUMULATING APPARATUS
Edward A. Rockwell, Cleveland, Ohio, assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Original application January 4, 1940, Serial No. 312,356. Divided and this application October 2, 1943, Serial No. 504,807
9 Claims. (Cl. 138—30)



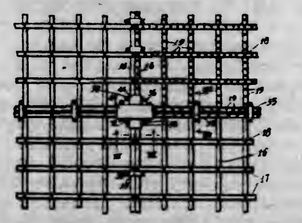
1. An accumulator for a pressure fluid comprising, a movable wall adapted to be moved by the accumulation of a pressure fluid against the same, a series of dished members adapted to be compressed by the movement of said wall and when released to move said wall in the opposite direction so as to discharge said fluid under pressure, a tubular member attached to the wall around which the dished members are carried and an outer stationary tublular member in which the dished members are externally guided.

2,404,096
CHLORINATED METHYLENE-BIS-DIMETHYL HYDANTOIN
Arthur O. Rogers, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 27, 1943, Serial No. 480,852
4 Claims. (Cl. 260—309.5)

1. N,N'-dichloro-(methylene-bis-dimethyl hydantoin) having the formula:

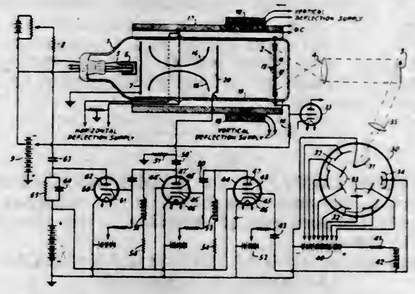


2,404,097
GROUND MAT
Frederick H. Ruppel, Pasadena, Calif.
Application November 17, 1942, Serial No. 465,859
14 Claims. (Cl. 94—13)



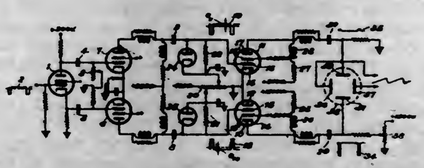
1. A composite mat of the type described, consisting of a plurality of similar unit lattice-work mats connected together in which each unit mat is rectangular in shape and comprises a lattice work consisting of a lower set of parallel spaced-apart bars, all of equal length and extending parallel to one side of said unit, and an upper set of parallel spaced-apart bars overlying said lower set, the bars of the upper set being all of equal length and crossing the bars of the lower set at right angles, means pivotally securing each bar to the bars of the other set at its intersections therewith, each unit mat having smooth edges, each constituted by one of said bars constituting a marginal bar, and means for securing the marginal bars of one unit to the marginal bars of adjoining units.

2,404,098
TELEVISION TRANSMITTING SYSTEM
Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 27, 1941, Serial No. 399,995
9 Claims. (Cl. 178—7.2)



1. In a television transmitting system including a tube of the low velocity electron beam scanning type said tube having a photo-emissive electrode, an electron collecting electrode and means to develop and scan said emissive electrode with an electron beam having a velocity approaching zero adjacent said emissive electrode, means to subject said emissive electrode to a source of light to liberate electrons normally collected by said collecting electrode, an electron discharge device exposed to and responsive to abnormal intensities of said source of light to derive a negative control voltage and means to apply said control voltage to said collecting electrode to interrupt the normal collection of electrons by said collecting electrode.

2,404,099
AMPLIFYING SYSTEM
Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1941, Serial No. 407,130
7 Claims. (Cl. 315—28)



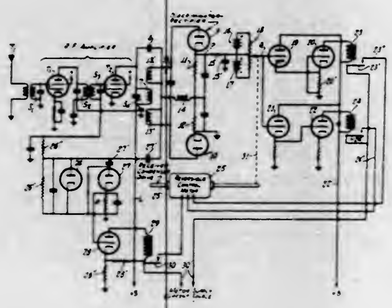
1. A counterphase amplifying system for amplifying signals of square wave form comprising a pair of thermionic amplifying tubes of the multigrid type, each having a cathode, grid and anode.

means to apply different negative biasing potentials with respect to the cathode between the cathode and grid of said two tubes, means to apply different positive potentials between the anode and cathode of each of said tubes, the positive potential applied to the tube having the most negative biasing potential being higher than that applied to the other tube, means to apply the square wave form between the cathode and grid of one tube and means to simultaneously apply a similar wave form to be amplified, but of opposite polarity thereto, to the other of said tubes, whereby the ouput wave form from each of said tubes is an amplified signal component of the said square wave form.

2,404,100
AKYLATION OF NAPHTHENES
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 16, 1942, Serial No. 465,693
11 Claims. (Cl. 260—666)

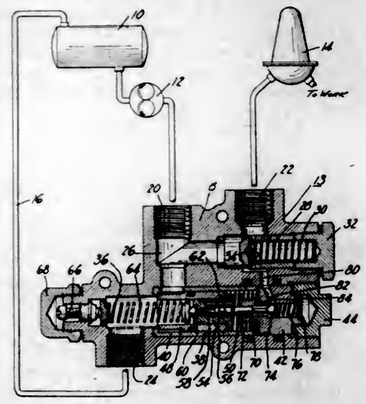
1. A process for synthesizing hydrocarbons which comprises reacting a naphthenic hydrocarbon with an alkyl halide at a temperature of from about 0 to about 100° C. in the presence of a catalyst formed by adding an aluminum halide to a nitroparaffin.

2,404,101
REMOTE CONTROL OF RADIO RECEIVERS
Robert E. Schock, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 15, 1942, Serial No. 438,979
14 Claims. (Cl. 250—20)



1. A method of controlling the position of a device from a remote point, which includes generating oscillations of a selected frequency at the remote point, transmitting the oscillations to a point adjacent the device, deriving from the transmitted oscillations a unidirectional control voltage whose magnitude and polarity are dependent respectively upon the mean amount and sense of frequency difference between said selected frequency and a predetermined reference frequency, adjusting the device to an extent and in a direction determined by said voltage magnitude and polarity respectively, producing a second voltage of a polarity opposed to said control voltage polarity in response to adjustment of said devices, and utilizing the second voltage to oppose the effect of the control voltage thereby to terminate said adjustment at a predetermined point.

2,404,102
REGULATING VALVE
Harold B. Schultz, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 12, 1942, Serial No. 468,763
6 Claims. (Cl. 137—153)

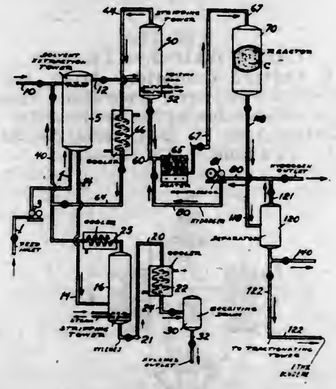


1. A regulator valve which opens at an upper limit to relieve pressure from a fluid pressure system and which is closed at a lower limit comprising a body having pumping, working and relief ports, means establishing communication between the pumping and working ports, a bore intersecting the relief port and having a valve seat disposed therein, means including said bore and valve seat for establishing communication between said pumping and relief ports, a pressure responsive normally spring-closed plunger movable in said bore and constructed and arranged to cooperate with said valve seat for closing the relief port, said plunger being so constituted that its end adjacent the valve seat is subjected to the pressure at the pumping port and its other end is subjected to a variable pressure, control means for regulating said variable pressure comprising a member movable with respect to the plunger and having a restricted passage therethrough for dissipating fluid from said other end of said plunger and a first control valve seat thereon, a first control valve biased to said seat, conduit means establishing communication between the working port and said other end of the plunger, said conduit means being provided with a second control valve seat, a second control valve biased toward the second control valve seat, the first control valve seat being of smaller cross-sectional area than the second control valve seat, means intermediate and in contact with both said control valves arranged so that but one of said control valves may be seated at a time, the bias for the first control valve exceeding that of the second control valve, the first control valve and intermediate means being arranged so that said first control valve will become at least slightly unseated when the pressure transmitted from said working port exceeds said upper limit to create a differential in pressure on said intermediate means causing it to completely unseat said first control valve and permit the seating of said second control valve, the unseating of said control valve being effective to dissipate sufficient pressure from said other end of the plunger to cause it to move to pass fluid from the pumping port to the relief port.

2,404,103
ISOMERIZATION OF CIS-ALPHA-BETA UNSATURATED ACID ESTERS
Winfield Scott, deceased, late of Akron, Ohio, by Ruth P. Scott, executrix, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application August 9, 1943, Serial No. 497,971
4 Claims. (Cl. 260—485)

1. The process of isomerizing a cis alpha, beta-unsaturated dicarboxylic diester to the trans isomer which comprises the step of heating the ester in the presence of dodecyl mercaptan.

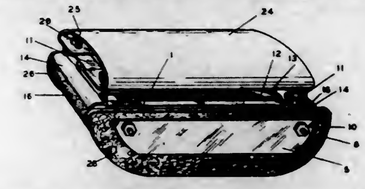
2,404,104
METHOD OF PRODUCING ETHYL BENZENE
Robert M. Shepardson, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 11, 1942, Serial No. 468,612
2 Claims. (Cl. 260—668)



1. A process of producing ethyl benzene which comprises solvent treating, with a liquid solvent having preferential solvent power for aromatics, a petroleum oil fraction boiling in the range from 260° F. to 275° F. and containing ethyl cyclohexane with xylenes but substantially free from dimethyl cyclohexanes that boil below 260° F. to remove the xylenes, thereafter converting into ethyl benzene the ethyl cyclohexane in the solvent-treated fraction, freed of the xylenes, by dehydrogenation under superatmospheric pressure at a temperature of from about 600° to 1100° F. with added hydrogen in the presence of a catalyst containing a component selected from the class consisting of metals, oxides, and sulfides of metallic elements in groups IV, V, VI, and VIII of the periodic system, and recovering the ethyl benzene product.

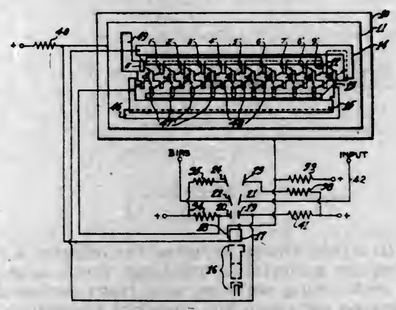
2,404,105
SANDPAPER HOLDER
Robley Hume Smith, The Dalles, Oreg.
Application July 1, 1944, Serial No. 543,125
1 Claim. (Cl. 51—187)

A device of the class described comprising a body member having curved ends and being adapted to support a strip of abrasive material, said body member consisting of a plurality of layers of felt and narrow metal reinforcing strips interleaved between the felt layers adapted to reinforce and stiffen the felt layers, narrow side members on each longitudinal side having right angle beads formed at the tops thereof and extending partly across the top of the body member, spring jaw member at each end of the body member having flange members extending beneath the beads on the side members and clamped to the body member thereby, means engaging the jaw members to force the gripping of the jaw members together, a pair of felt guard rails along



each longitudinal side of the body member and extending beyond the abrasive supporting face thereof, bolt members adjacent each end of the body member passing through the side rails and body securely clamping the rails and body members together and a strip of abrasive material having each end clamped in a jaw member and being snugly supported by the body member.

2,404,106
ELECTRONIC CALCULATING DEVICE
Richard L. Snyder, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 13, 1943, Serial No. 498,511
14 Claims. (Cl. 235—92)

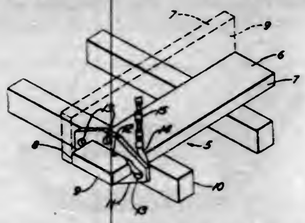


1. In a calculating device including means for forming a beam of electrons and pairs of electrodes for determining the position of said beam, the combination of a target provided with a solid member connected to one electrode of one of said pairs for moving said beam lengthwise of said target in one direction and with an apertured member mounted in front of said solid member and connected to the other electrode of said pair for deflecting said beam lengthwise of said target in the opposite direction, one aperture of said apertured member having opposed rows of complementary teeth extending lengthwise of said target, and means including an electrode of another of said pairs for moving said beam into alignment with one of said rows of teeth.

2,404,107
BLOOM WRENCH
Hugh O. Starr, Steubenville, Ohio, assignor to National Steel Corporation, a corporation of Delaware
Application November 18, 1944, Serial No. 564,053
1 Claim. (Cl. 294—1)

Apparatus for turning a rectangular steel body about its longitudinal axis, said apparatus com-

prising a wrench plate; a rectangular opening in said member and through which the steel body extends when the wrench plate is in the operative position; and four other openings in said member, each of said other openings being spaced from



and positioned substantially mid-way of the corresponding side of said rectangular opening; and being adapted for selective engagement with a hoist member so that upon actuation of the hoist it will raise said hoist member and turn said wrench plate and said body.

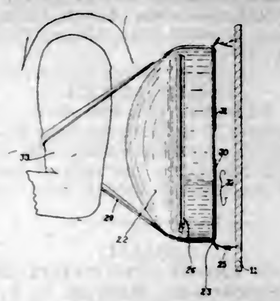
2,404,108
RESTRAINING GARMENT FOR INFANTS
Warner Stauffacher and Wilma A. Stauffacher, Minneapolis, Minn.
Application October 5, 1944, Serial No. 557,306
3 Claims. (Cl. 227—49)



1. In a restraining garment for infants, a sheet of flexible material comprising front and side body restraining sections, said front section having spaced leg receiving openings therein, a seat section extending rearwardly from said front section, each of said side sections having a pair of upper and lower rear edge portions converging rearwardly, and a single tie member for each pair of said rear edge portions and having an end thereof secured to each pair of said rear edge portions at their point of convergence.

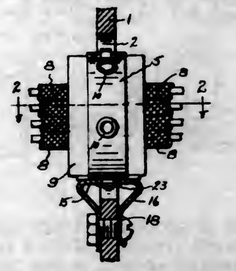
2,404,109
COMBINED HEADREST AND EMERGENCY KIT
Frederick I. Steele, Snyder, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application January 29, 1943, Serial No. 474,027
3 Claims. (Cl. 155—173)

1. In an emergency kit, a casing, emergency supplies packed within the casing, means for releasably securing the casing to a supporting structure, a flexible strap having its two ends respectively connected to the casing at spaced points thereon to allow for the passage of a person's arm under the same, said strap being folded adjacent its opposite end to lie flat over the casing and to take up its slack, means for releasably retaining the strap in its folded condition, whereby when the emergency kit is to be separated from its supporting structure the strap can be extended to allow the kit to be put



over the person's arm and to give sufficient shock upon taking up slack as to aid in the release of the kit from its supporting structure.

2,404,110
CABLE HARNESS CLAMP
Warren L. Trafton, Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 23, 1944, Serial No. 541,733
1 Claim. (Cl. 248—74)

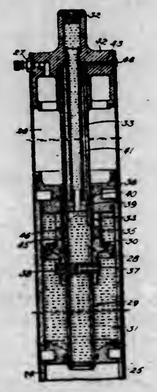


A cable harness clamp comprising a resilient band having an intermediate base portion, a mounting member for said band having a supporting surface and spaced opposed leg portions extending therefrom, a swivel connection between said supporting surface of said mounting member and the base portion of said band, said leg portions adapted to be engaged with the support for positioning the band relative thereto.

2,404,111
RESILIENT TELESCOPIC UNIT
Cyril James Underwood, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application November 23, 1943, Serial No. 511,466
In Great Britain November 17, 1942
1 Claim. (Cl. 267—64)

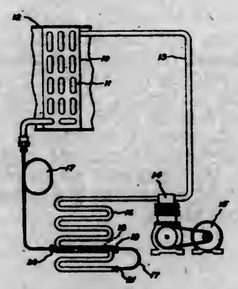
A telescopic resilient unit comprising a tubular outer element closed at one end; a hollow liquid-filled plunger slidably operating in said outer element to close its other end, and to define therein a closed compression chamber, tending to project the plunger outwardly; a spindle supported from said outer element and projecting axially through said plunger; a damping head fixed on said spindle and operating in the liquid which fills said plunger; valve means controlling movement of liquid between opposite faces of said

damping head, disposed and arranged to permit substantially unimpeded relative movement of the plunger and outer element in the compressive sense, subject to pneumatic resistance in said compression chamber, and to damp hydraulically relative movement of the plunger and said outer



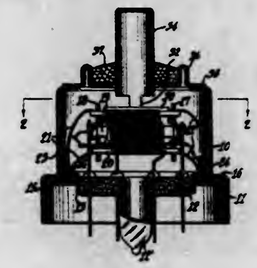
element in the rebound sense only; and cooperating cam members, one fixed on the damping head and the other fixed to the hollow plunger, engageable as the parts return to extended position to dispose said plunger and said outer element in a predetermined relative angular setting about the unit's axis.

2,404,112
REFRIGERATING MACHINE
Fred O. Urban, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application January 19, 1943, Serial No. 472,818
13 Claims. (Cl. 62—8)



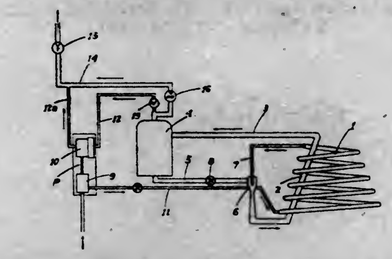
1. A refrigerating machine including an evaporator, means for withdrawing vaporized refrigerant from said evaporator, means for liquefying the withdrawn refrigerant, a restrictor tube for supplying liquid refrigerant from said liquefying means to said evaporator, said tube during at least a portion of the range of operation of said machine producing a reduction of refrigerant pressure sufficient to cause vaporization of liquid refrigerant within said tube, and means directly responsive to a condition of operation of said liquefying means and attached to a portion of said tube spaced from both ends of said tube for varying the proportion of vaporized refrigerant with respect to liquid refrigerant in said portion of said tube in accordance with changes in the pressure difference between the ends of said tube.

2,404,113
ELECTRON DISCHARGE DEVICE
Herbert M. Wagner, Long Branch, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1943, Serial No. 481,187
15 Claims. (Cl. 250—27.5)



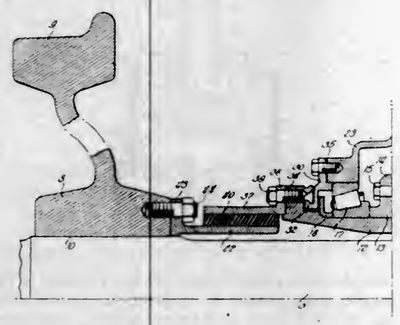
1. An electron discharge device having a tubular conducting shell, a header member closing one end of said shell and comprising a conducting ring provided with a transverse flange and a transverse member of insulating material sealed to said ring closing one end of said conducting shell, an electrode mount mounted on said transverse member of insulating material and including a cathode and a grid, one end of said tubular conducting shell being secured to said flange, a conductor coaxial with said conducting shell and extending through the other end of said conducting shell, a seal between the other end of said conducting shell and said coaxial conductor, electrically conductive connections between said grid and said shell, conductors for said cathode extending through said transverse member of insulating material, an anode within said shell, and electrically conductive connections between the anode and said coaxial conductor.

2,404,114
WATER FEED SYSTEM FOR BOILERS
Russell R. Waterman, Lodi, Calif.
Application December 28, 1942, Serial No. 470,334
8 Claims. (Cl. 122—451)



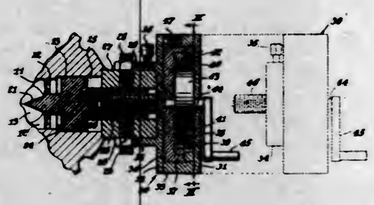
8. A boiler water feed system including, with a boiler, a drum separate from but connected in circulating relation with the boiler and receiving water and steam therefrom, a steam operated pump to feed water to the boiler, a steam circulating pipe system between the boiler, pump, and point of ultimate steam use, such system being so arranged that the pump can only operate when steam is being drawn from the boiler for use other than in operating the pump, while allowing use of the steam independently of pump operation, and means responsive to the water level in the drum for controlling the operation of the pump.

2,404,115
AXLE GENERATOR DRIVE
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 22, 1944, Serial No. 536,849
11 Claims. (Cl. 105—131)



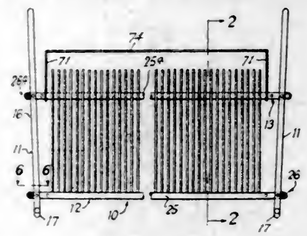
1. In combination, a solid vehicle axle having a wheel fixed thereon, an axially extending driving member fixed to the inboard side of said wheel and spaced radially about said axle, a sleeve member surrounding said axle and spaced radially therefrom, said sleeve member having a radially enlarged end portion telescoping over said drive member, a gear secured to said sleeve member, non-metallic resilient means compressed between said end portion and said driving member and interconnecting said driving member and said end portion of said sleeve member for driving said gear, and a non-metallic resilient support on said axle for the opposite end of said sleeve member.

2,404,116
ADJUSTING MECHANISM
Chester S. Wolowicz, Bloomfield, and John J. Terpay, Irvington, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 15, 1944, Serial No. 531,258
5 Claims. (Cl. 74—401)



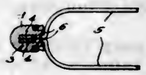
1. An adjusting mechanism comprising a fixed member and a part slidable therein for adjustment, a housing on said fixed member, an adjusting screw projecting from said housing into said slidable part and adapted to adjust the same by rotation of said adjusting screw, gearing in said housing connected operatively to said adjusting screw, means for operating said gearing and thereby operating said adjusting screw and adjusting said slidable part, and means for locking said slidable part in adjusted position independent of holding of said part by said screw.

2,404,117
PHOTOGRAPHIC FRAME RACK
Joseph Worth, New York, N. Y.
Application July 24, 1944, Serial No. 546,328
17 Claims. (Cl. 95—100)



1. A photographic rack comprising a pair of similar end members, an upper frame and a lower frame, said frames being substantially rectangular, the upper frame being wider than the lower frame, and said end members being attached to the ends of said upper and lower frames, and pairs of aligned spacers attached to the opposite sides of the upper and lower frames forming spaces therebetween to receive photographic prints or negatives.

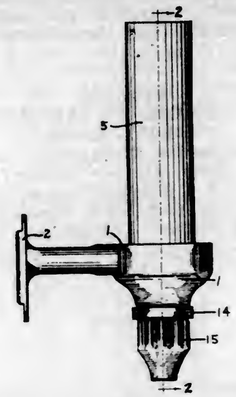
2,404,118
METHOD OF MAKING TRIGGERS
Victor G. Yawman, Rochester, N. Y., assignor to Yawman Metal Products, Inc., Rochester, N. Y., a corporation of New York
Application May 10, 1943, Serial No. 486,442
6 Claims. (Cl. 29—148)



1. The method of making a trigger which comprises punching an elongated finger hold blank from sheet metal, forming said blank into a saddle shape to provide a rearwardly opening channel, stamping a trigger extension blank from sheet metal, forming said extension blank into a loop with its ends in registering relation, and staking the registering ends of said loop in said channel with the principal plane of the loop extending at right angles to the principal axis of said finger hold blank.

2,404,119
DISPENSER
David Zanolli, San Francisco, Calif.
Application June 13, 1944, Serial No. 540,100
5 Claims. (Cl. 222—390)

1. A dispenser of the character described having in combination a supporting member provided with a socket portion having an axial bore therein, a container removably mounted in said socket, a tubular rod having an end portion thereof rotatively mounted in said bore, said end portion having a reduced threaded extension provided with a discharge orifice at its extremity, the other end of said rod being in communication with the interior of said container, an internally threaded stop collar removably engaging the threaded reduced extension of said rod, means for preventing relative rotation of said rod and said collar, a feeding member located within the container and having threaded engagement with said rod, and means for imparting rotating movements to said collar, so as to correspondingly ro-

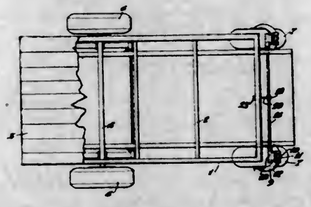


tate said rod and thereby impart axial movements to said feeding member.

2,404,120
PRODUCTION OF AROMATIC DERIVATIVES
William N. Axe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application July 3, 1944, Serial No. 543,421
12 Claims. (Cl. 260—671)

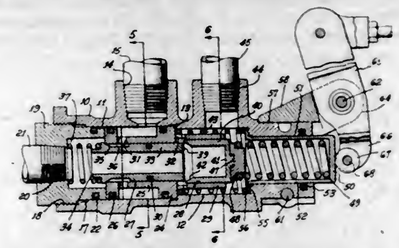
2. A process for the production of normal alkyl derivatives of aromatic compounds, which comprises reacting an aromatic compound with a normal 1,3-diolefin in the presence of a complex catalyst resulting from substantially saturating water with a boron trihalide to form a normal alkenyl derivative of said aromatic compound, separating from effluents of said alkenylation a fraction comprising said normal alkenyl derivative, and subjecting said fraction to nondestructive hydrogenation to form a normal alkyl derivative of said aromatic compound.

2,404,121
CASTER TRAILER
James J. Black, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a corporation of Delaware
Application April 17, 1944, Serial No. 531,406
5 Claims. (Cl. 280—33.4)



1. A trailer vehicle comprising a frame, caster wheels located at opposite sides of said frame, levers pivotally interconnecting said casters with said frame for movement of the casters in a substantially vertical direction, and shaft means in common torsional connection with said levers and responsive to vertical movement of either one of said casters, for exerting a compensating effect upon the other.

2,404,122
PISTON BRAKE VALVE
Rodney B. Campbell, Van Nuys, Calif.
Application March 30, 1943, Serial No. 481,078
9 Claims. (Cl. 303—54)

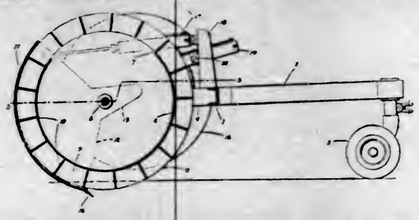


1. In a valve device, the combination of: a housing having an inlet port, a supply port, an exhaust port, and a valve bore; a tubular main valve member in said bore having an annular head on one end thereof of only slightly larger diameter than said bore and having a passage therein, said main valve member being axially movable in said bore from a closed position in which communication between said inlet port and said supply port through said passage is closed by said head seating against a shoulder formed at one end of said bore to an open position in which said passage provides fluid communication between said inlet port and said supply port; means for yieldably maintaining said main valve member in said closed position; a cup-shaped auxiliary valve member axially movable relative to said main valve member and having an inwardly bevelled seating face on an open end thereof adapted to seat on the periphery of one end of said main valve member; a movable actuating member axially movable in said housing; spring means operatively connecting said actuating member and said auxiliary valve member so that said auxiliary valve member may remain out of engagement with said main valve member to provide fluid communication between said supply port and said exhaust port through said main valve member; means for moving said actuating member axially from a first position to operate through said spring means first to cause said auxiliary valve member to engage said main valve member so that said seating face seats on said periphery to close said fluid communication between said supply port and said exhaust port, and upon continued axial movement of said actuating member then to move said main valve member from said closed position to said open position; and means for normally urging said actuating member to said first position.

2,404,123
CARRYING SCRAPER
Marion A. Clark, Tulare, Calif.
Application June 6, 1945, Serial No. 597,798
1 Claim. (Cl. 37—9)

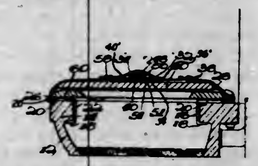
A scraper comprising a draft frame, a rotary bowl mounted on the frame for rotation about a transverse axis, said bowl having a circumferential opening therein, means to control rotation of the bowl between a loading position with the opening on top and a dumping position with the opening on the bottom, a transverse scraper blade mounted for earth engagement below and spaced from the bowl, an arcuate hood extending upwardly and rearwardly from the blade in spaced symmetrical relation to the bowl to a point adjacent the top of the latter, and an

earth elevating reel rotatably surrounding the bowl and running between the latter and said hood whereby to elevate earth from the blade and to load said earth into the bowl from the top; the hood and blade being secured in unitary relation and the hood including end members projecting radially across the ends of the bowl, means pivoting said end members intermediate their ends



axially of the bowl, supporting wheels mounted on said members at the end opposite the hood, the wheels being clear of the earth when the blade engages therewith, and means to rotatably adjust the hood between one position with the blade in earth engagement and the wheels clear thereof, and another position with the blade clear of the earth and the wheels in engagement therewith.

2,404,124
TOILET PROTECTIVE DEVICE
Hilton H. Des Roches, Butte, Mont., assignor of one-half to Christopher Frassett, San Francisco, Calif.
Application March 21, 1944, Serial No. 527,443
9 Claims. (Cl. 220—55)



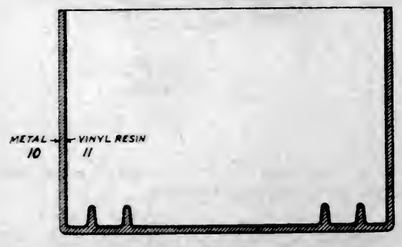
1. A fastening device for the closure of a receptacle having a bead extending around the inner periphery of the opening therein; said device comprising a pair of members engaging said bead and including a portion extending between the closure and the wall of said opening and projecting beyond the margin of the closure when the same is in closed position, and a separable flexible member joining the ends of said last mentioned portions of each member.

2,404,125
ELECTRODE HOLDER
Thomas S. Donnelly, Jr., Detroit, Mich., assignor to Bordon Mfg. Co., Inc., Detroit, Mich., a corporation of Michigan
Original application February 19, 1943, Serial No. 476,479. Divided and this application December 11, 1943, Serial No. 513,945
3 Claims. (Cl. 219—8)



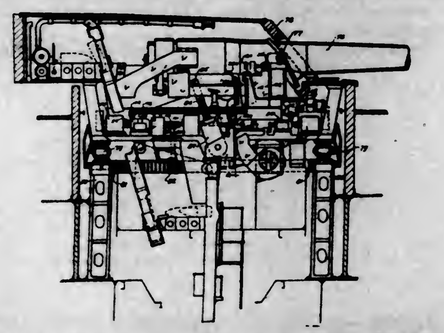
1. In an electrode holder of the class described, an electrode clamping jaw having a back face and a front face; an outwardly projecting rib on said back face, said rib being longitudinally tapered; an insulation plate having a groove formed in one of its faces for reception of said rib, said groove being tapered and slidable on said rib and engaging therewith as a press fit, said plate being of greater width than said jaw and projecting laterally outwardly from the sides thereof.

2,404,126
BATTERY CONTAINER AND METHOD OF MAKING SAME
Joseph Charles Duddy, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application August 28, 1941, Serial No. 408,630
3 Claims. (Cl. 206—2)



1. A light weight battery container comprising an aluminum container, the inner surface of which is provided with an acid and alkali resisting, abrasion resisting continuous coating which is sufficiently flexible to withstand the expansion and contraction of said aluminum container with temperature and is capable of withstanding an initial voltage stress of at least 500 volts A. C., said coating comprising a prime coat of a chlorinated rubber base resin paint having the property of adhering to the surface of said aluminum container, an enamel coat including a substantial amount of silica bonded to said prime coat, and a seal coat of a copolymer of vinyl chloride and vinyl acetate firmly adhering to said enamel coat.

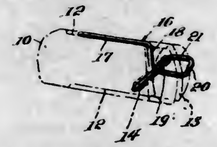
2,404,127
SENSITIVE CONTROL MECHANISM
Hans Ernst, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application August 2, 1933, Serial No. 683,330
70 Claims. (Cl. 89—41)



1. In a gun control mechanism the combination of a power unit including a pump and motor, a prime mover for continuously actuating said pump, means coupling the motor to said gun, an oscillatable member for controlling the displacement of said pump, said member having a zero displacement position, a communication system including a transmitter and receiver,

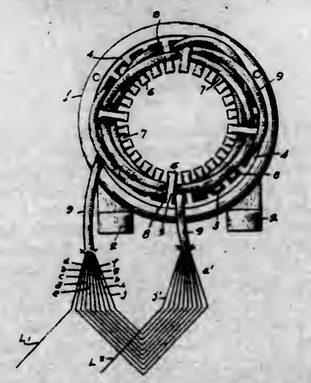
means coupling the receiver to said pump displacement control member including a fluid rotatable device for moving said member out of said last named position upon signal reception from the transmitter to effect actuation of the motor, and means controlled by the gun for effecting reverse rotation of said device to move said member into its first named position on completion by the gun of movement as determined by the transmitter.

2,404,128
LOCK TO SECURE NUTS ON BOLTS
Herbert H. Field, Rock Falls, Ill.
Application November 8, 1944, Serial No. 562,466
3 Claims. (Cl. 151—8)



1. A locking device for a bolt having a bifurcated end, provided with a passage crossing the bifurcation, and a nut threaded on the bolt inwardly of the bifurcation, comprising a bendable locking wire having one end stretch seated longitudinally in the bolt, an elbow portion within the bifurcation, and another end stretch looped over the bifurcated end of the bolt and threaded in the passage to be disposed at substantially right angles to such bifurcation with the outside portion of the loop overlying the nut.

2,404,129
ELECTRICAL WINDING
Martin Flatland, San Francisco, Calif.
Application September 20, 1943, Serial No. 503,162
4 Claims. (Cl. 171—206)



1. The method of winding magnetic field cores, consisting in assembling a plurality of wires in compact cable formation; then reeving an end of said cable between and around said cores and then joining the ends of said wires to form a continuous wire between its free ends.

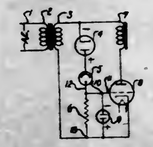
2,404,130
STRAINER OR EGG POACHER
Louis Frank, Fellows, Calif.
Application March 8, 1944, Serial No. 525,620
1 Claim. (Cl. 220—94)

A culinary utensil formed from a single piece of thin material and comprising a bowl, a narrow inverted U-shaped member projecting upwardly from the edge of said bowl, a U-shaped member having its inner leg connected to the outer leg of said inverted U-shaped member, a handle projecting outwardly from the outer leg of said U-shaped member, a narrow longitudinally disposed strip cut from said U-shaped member, with a portion of said strip extending inward toward the bowl beneath said inverted U-shaped member



and thence outward to form a horizontally disposed U-shaped receptacle engaging lip and that portion of said strip outwardly from the lower leg of said lip, extending through the opening formed by the cutting of said strip from both legs of said U-shaped member to provide a handle for flexing said lip away from said bowl which last mentioned handle is disposed below and parallel with said first mentioned handle.

2,404,131
PHOTOELECTRICALLY CONTROLLED AMPLIFYING CIRCUIT
Werner A. Gieseke, Danville, Ill., assignor to Samuel C. Hurley, Jr., Danville, Ill.
Application September 2, 1944, Serial No. 552,432
1 Claim. (Cl. 250—41.5)

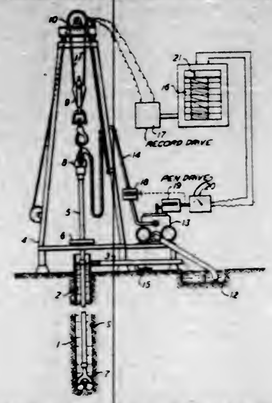


In an alternating current photoelectric amplifier, a source of alternating current; a power tube containing a control electrode and an energy translation means connected in series across said source of alternating current; a rectifier, a light sensitive device and a resistor connected in series across said source and parallel to said power tube circuit; said light sensitive device having its anode connected to said control grid and its cathode to said rectifier; a condenser connected to said control grid and to one side of said alternating current to which the resistor is also connected; said condenser connected in parallel with said resistor; said energy translation means responsive to the flow of current through the power tube when the light sensitive device is in shadow and means for substantially preventing the flow of current through the power tube for a definite period of time when the light sensitive device is in light including charging the condenser with sufficient negative charge when current flows through the light sensitive device when in light to maintain the bias on the power tube negative for time equal to at least one-half of the cycle for the alternating current.

2,404,132
APPARATUS FOR USE IN LOGGING WELLS
John T. Hayward, Tulsa, Okla.
Application March 15, 1941, Serial No. 383,622
11 Claims. (Cl. 73—151)

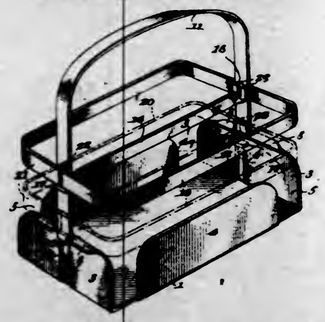
11. Apparatus for measuring and recording volumes of well-drilling fluid circulating down a drill string and upwardly outside thereof, com-

prising, a fluid flow meter, a recorder having co-operating elements one of which is synchronized



with the drill string, and a variable gear ratio for driving the other element of said recorder from the flow meter.

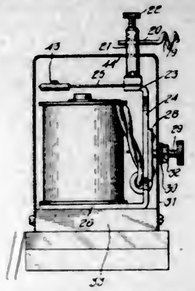
2,404,133
BOTTLE CARRIER
James N. Ice, Wheeling, W. Va., assignor to Riverside Steel Company, Wheeling, W. Va., a corporation of West Virginia
Application March 23, 1945, Serial No. 584,438
9 Claims. (Cl. 224—48)



1. A bottle carrier comprising a body, a separable handle for the body, means for assembling the handle and body and simultaneously locking the handle and body to prevent other than relative sliding movement of the handle while in one vertical plane relative to the body, said means providing for unlocking the handle and permitting free separation of the handle from the body when the handle is in parallel relation to the body.

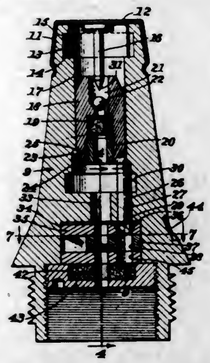
2,404,134
RETOUCHING APPARATUS
Everard L. Johnson, Patchogue, N. Y.
Application April 15, 1944, Serial No. 531,279
4 Claims. (Cl. 95—103)

1. An apparatus for delivering high frequency impulses to an implement manually guided over a worksheet, said apparatus comprising a base, an electrical magnet on said base, an L-shaped vibrator arm comprising an upstanding part on the base, a horizontal part arranged angularly to the first named part, and over one end of said electrical magnet, a post on the arm at the intersection of said parts, a flexible member having one end secured to said post, means for supporting an implement in connection with the other end of said member whereby high frequency impulse vibrations of said arm are transmitted to



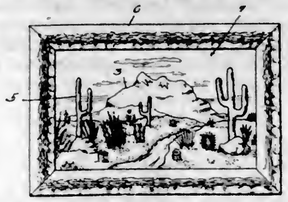
an implement through said flexible member, and manually adjustable means cooperating with the first named part of said arm for controlling the vibration properties of said arm.

2,404,135
FUSE CONSTRUCTION
Piao Kiang, Washington, D. C.
Application July 31, 1942, Serial No. 453,069
1 Claim. (Cl. 102—75)



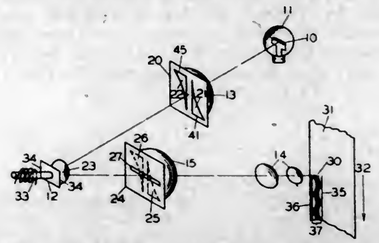
A shell fuse comprising a body having an axial bore, a carrier slidable in said bore, a primer carried by said carrier, a rearwardly projecting firing pin in the forward end of said bore against which the carrier is adapted to carry the primer, means normally locking said carrier against forward movement in said bore intermediate the ends of the latter and with the primer spaced from the firing pin, said locking means being released to permit such forward movement upon relative rearward movement of said carrier in said bore due to set-back inertia, said body defining a pair of axially extending firing paths behind the primer and a transverse passage intersecting one of said paths, control means freely slidable in said channel by gravity between blocking and freeing positions with respect to said one of said paths, a plunger mounted in said body for relative axial sliding movement, and means holding said plunger in a normal position wherein said plunger engages said carrier to hold said carrier in its normal position, said holding means being released due to set-back inertia of said plunger and carrier so that said plunger and carrier move relatively rearwardly with respect to said body to positions wherein the locking means for the carrier is released and the plunger locks said control member in selected position.

2,404,136
THREE-DIMENSIONAL PICTURE
Mary A. Knauff, Tucson, Ariz.
Application August 29, 1945, Serial No. 613,324
1 Claim. (Cl. 41—24)



A three dimensional picture including an elongated trough of sheet material having segmental ends and an open face, the inner surface of the trough being provided with a scenic background, a plastic material partially filling the trough and extending from end to end thereof, said filling being extended backwardly to and merging into the background and depicting a scenic foreground, objects seated in the plastic material and supported thereby fixedly for display in front of the background, means joined to the edges of the trough for concealing the same and the forwardmost portion of the plastic, and a transparent closure carried by said means through which the background and the fabric are displayed to depict a natural landscape or the like.

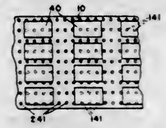
2,404,137
METHOD OF AND MEANS FOR RECORDING ELECTRICAL IMPULSES AND IMPULSE RECORD PRODUCED THEREBY
John A. Maurer, Jr., New York, N. Y., assignor to J. A. Maurer, Inc., New York, N. Y., a corporation of New York
Application August 4, 1944, Serial No. 548,098
15 Claims. (Cl. 179—100.3)



1. The method of producing on a film a photographic record of electrical impulses which includes moving said film past a recording point in a substantially vertical direction; producing at said recording point two horizontal lines of light in juxtaposition, each of said two lines of light containing a variable amount of light flux; and continuously varying said amount in proportion to the square of the amplitude of said electrical impulses, but varying the amount of light flux contained in the one of said two lines of light 180° out of phase in relation to the amount of light flux contained in the other line of light.

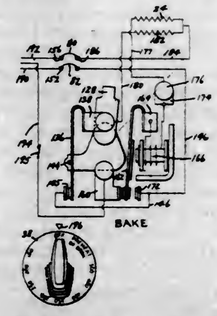
2,404,138
APPARATUS FOR DEVELOPING EXPOSED PHOTOGRAPHIC PRINTS
Alvin L. Mayer, Cincinnati, Ohio
Application October 6, 1941, Serial No. 413,709
8 Claims. (Cl. 95—94)

1. A device of the class described for developing exposed photographic prints, said device comprising an open topped receptacle, a perforated conveyor for moving said prints individually in a flatwise manner face up, above said receptacle, and applicator means for spraying a developer solution onto the upper face of said prints and the perforated conveyor supporting the prints, said conveyor in the area beneath the spray applicator having its perforations unrestrictedly open to afford immediate drainage of the solution through the conveyor where the solution strikes the conveyor, the length of conveyor travel ex-



ceeding the area covered by said spray means whereby the prints will be exposed to the action of the developer solution for a limited length of time less than the total time required for complete development of the prints, and then be exposed to the atmosphere with the conveyor and the prints thoroughly drained of developer solution, until the development action is complete, and means for recirculating the drained developer solution from the receptacle to the spraying means.

2,404,139
DOMESTIC APPLIANCE
Francis H. McCormick, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 30, 1938, Serial No. 232,592
13 Claims. (Cl. 219—20)

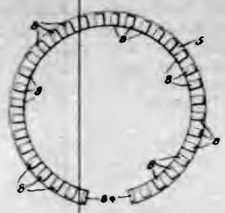


10. An electrical heating system for an oven comprising a source of electric energy, an upper oven heating unit primarily for broiling purposes, a lower oven heating unit primarily for baking purposes, a thermostat for connecting and disconnecting said units to and from a source of electric energy to provide successive heating cycles in accordance with oven temperatures, and means responsive to the operation of said thermostat for energizing the upper unit at reduced heat output for the successive heating cycles following the first heating cycle.

2,404,140
PISTON RING
Thurlow E. McFall, Sparta, Mich.
Application January 3, 1944, Serial No. 516,828
8 Claims. (Cl. 309—44)

1. In a piston ring, a ring member comprising, an integral flat rail section of thin metal of a curved form having a parting at one side, said rail section becoming substantially circular

at its outer periphery when the parting is closed, and a plurality of spaced tongues extending from the inner edges of said rail section, said tongues being bent substantially at right angles to said



rail section for a short distance and thereafter bent to lie substantially parallel to and spaced from said rail section, said tongues being substantially equally spaced throughout their lengths as specified.

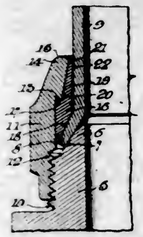
2,404,141
RAZOR BLADE HOLDER
Jennings Nelson, St. Paul, Minn.
Application December 11, 1943, Serial No. 513,899
15 Claims. (Cl. 30—162)



1. A razor blade holder comprising a hollow receptacle having an open side therein, a pair of reinforcing plate means slidable in unison toward and away from said open side, razor blade means supported between said reinforcing plate means to slide therewith, a slot in said receptacle extending at substantially right angles to said open side and communicating therewith, an operating means resiliently secured to one of said reinforcing plate means and extending through said slot, spaced enlargements in said slot, and shoulder means on said operating means resiliently urged into said enlargements to hold said reinforcing plate means from movement toward or away from said open side of said receptacle.

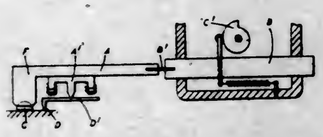
2,404,142
TUBE COUPLING
Arthur L. Parker, Cleveland, Ohio, assignor of one-half to Logansport Machine, Incorporated, Logansport, Ind., and one-half to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application September 14, 1940, Serial No. 356,845
1 Claim. (Cl. 285—86)

In a coupling for tubes, coupling members having threaded engagement, one of the coupling members having a seat adapted to engage the inner face of the flared end of a tube, the other coupling member having a clamping shoulder on its inner face disposed in a plane at right angles to the longitudinal axis of the coupling members, a clamping sleeve surrounding the tube within said last-named coupling member and having at its inner end a solid head provided with a coniform face engageable with the outer face of the flared end of the tube, said solid head at the outer portion thereof being disposed in a plane at right angles to the axis of the coupling members and forming a clamping shoulder adapted to cooperate with the clamping shoulder on said last-named coupling member, said sleeve being extended from said head outwardly and having its external surface tapered, said last-named coupling member between the clamping shoulder thereon and the outer end thereof being shaped so as to engage said tapered surface for contracting the outer end portion of the sleeve into en-



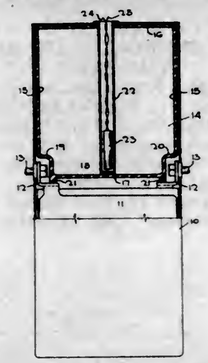
gagement with the tube for damping vibrations imparted thereto, said clamping shoulders being initially spaced from each other to permit relative movement of said coupling member and the sleeve for contracting said sleeve and operating when brought into contact to limit further contraction of the sleeve, said shoulders when in contact also operating as a means for positively forcing the sleeve into clamping engagement with the tube for firmly clamping said tube against the seat on said first-named coupling member.

2,404,143
APPARATUS FOR MEASURING OR INDICATING THE ROUGHNESS OR UNDULATIONS OF SURFACES
Richard Edmund Reason, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain
Application December 30, 1944, Serial No. 570,725
In Great Britain September 22, 1943
14 Claims. (Cl. 73—105)



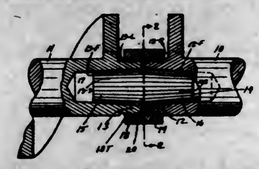
1. A pick-up unit for use in apparatus for measuring or indicating the roughnesses or undulations of a surface, comprising a stylus for engaging with the surface to be tested, a pick-up head carrying the stylus, a traversing member for transmitting motion to the pick-up head for traversing the stylus along the test surface, a flexible connection between the traversing member and the pick-up head, a shoe freely mounted rotatably on the pick-up head and having a working face which engages with the test surface and is shaped to fit closely the nominal shape of the test surface in the direction of traversing, such working face constituting a datum for the working movements of the stylus approximately normal to the test surface during traversing, and a detector device in the pick-up head responsive to the working movements of the stylus and acting to convert such movements into electrical energy from which the measurement or indication can be obtained.

2,404,144
ACID-RELEASING MEANS FOR DEFERRED ACTION TYPE BATTERIES
Harold Coleman Riggs, Langhorne Manor, and William Wharton Smith, Philadelphia, Pa., assignors to The Electric Storage Battery Company, a corporation of New Jersey
Application October 29, 1943, Serial No. 508,238
5 Claims. (Cl. 136—90)



1. In a deferred action type of battery, a plate compartment, an electrolyte compartment, a partition for separating said electrolyte compartment from said plate compartment until said battery is to be placed in service and explosive squib means located adjacent said partition for rupturing a portion of said partition when it is desired to place said battery in service.

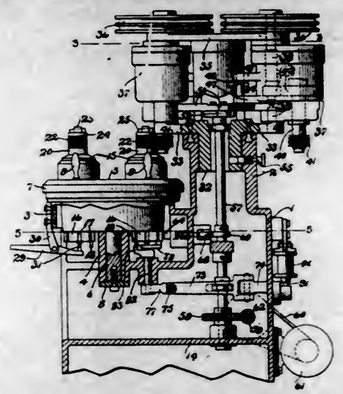
2,404,145
COUPLING FOR COAL FEEDING WORMS
William M. Schweickart, Cleveland, Ohio
Application March 28, 1944, Serial No. 528,451
3 Claims. (Cl. 287—2)



1. In a device of the class described, the combination of a pair of worm sections having their adjacent shaft ends oppositely threaded, said shaft ends having fluted, tapered recesses formed therein along the worm axis, a double tapered plug having its largest diameter knurled in the middle of its length and having flutes along its tapered surfaces adapted to mate with those in the shaft recesses and a threaded sleeve adapted to receive the threaded ends of said worm sections and draw same together upon said plug.

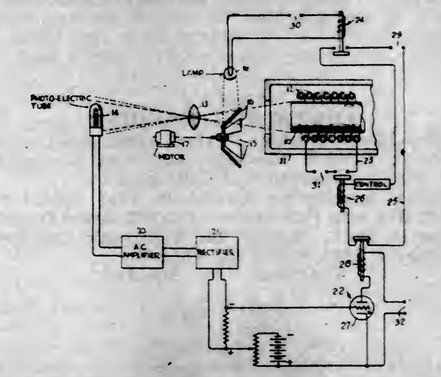
2,404,146
PISTON RING SLOTTING MACHINE
Harold M. Scarff, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan
Application August 16, 1944, Serial No. 549,707
6 Claims. (Cl. 90—15.1)

1. In a machine of the class described, a horizontal substantially ring-like support, a horizontal turntable mounted within said support and extending over the upper side and bearing thereon, means for mounting said turntable to turn about a vertical axis, two sleeves rotatably mounted upon and extending vertically through said turntable inside said support, a piston ring carrying arbor having a downwardly extending stem to pass into the upper end portion of each sleeve, said stem having a notch in a side thereof, a spring actuated dog mounted on each sleeve to enter said notch at one end of the dog, a rod in each sleeve having a cam upper end mounted lengthwise of the lower por-



tion of said sleeve and extending therebelow, said dog at its lower end having a cam edge to engage the cam end of the rod, a lever pivotally mounted between its ends and carried by said support at one end extending underneath either of said rods in a predetermined position of the turn table, whereby one of said rods may be moved upwardly on operation of the lever to disengage said dog from said arbor stem.

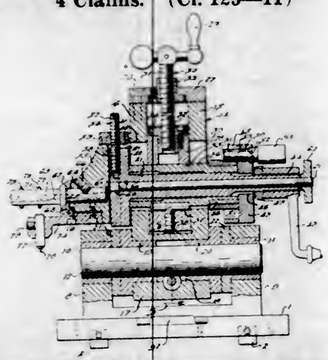
2,404,147
FURNACE HEAT INDICATOR
Harold A. Strickland, Jr., Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 24, 1941, Serial No. 424,283
9 Claims. (Cl. 219—20.4)



1. In control apparatus, a device adapted to emit radiations when heated, power connections thereto, a standard radiation source, a radiation sensitive cell positioned to receive radiations from said device and source and adapted to produce voltages generally responsive to the radiation intensities impressed upon it, means for alternately directing radiations from said standard source and device when heated upon said cell, means for changing direct current voltages of different amplitudes transmitted by said cell into alter-

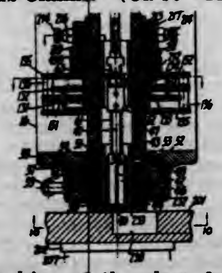
nating current voltages, and means responsive to the diminution of said alternating current voltages to below the predetermined value for opening said power connections.

2,404,148
GRINDING WHEEL DRESSER
Richard A. Thompson, Detroit, Mich., assignor to Colonial Broach Company, Detroit, Mich., a corporation of Delaware
Application August 5, 1944, Serial No. 548,191
4 Claims. (Cl. 125—11)



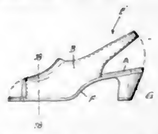
1. A grinding wheel dresser comprising a base, a frame pivotally connected to the base, a slide movable on the frame in a path at right angles to the axis of said pivotal connection, a support rotatably mounted on said slide on an axis parallel to said first menticned axis, a second slide movable on said support in a path at right angles to the axis of movement of the support relative to the first slide, and a dressing tool carried by said second slide with its point projecting in a direction parallel to the path of movement of the second slide relative to the support, said base having a flat reference surface extending parallel to the axis of said frame, and means on said frame offset from its axis defining a curved surface adapted to remain tangent to planes parallel to said reference surface, in all pivotal positions of said frame, said reference surface and said means being in juxtaposition to receive between them measuring blocks for determining the angle of adjustment of the frame relative to the base.

2,404,149
CONTOURING MACHINE
Dallas Rhea Trinkle, Dayton, Ohio, assignor to Merco-Trinkle Machine Co., San Francisco, Calif., a corporation of California
Original application August 20, 1941, Serial No. 407,670, now Patent No. 2,365,365, dated December 19, 1944. Divided and this application February 1, 1943, Serial No. 474,265
12 Claims. (Cl. 90—14)



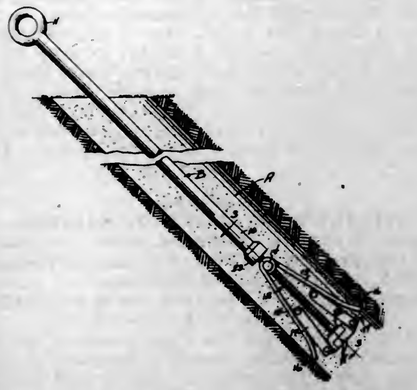
1. In a machine of the class described, a reciprocable tool having a shank and an enlarged cutting portion providing a shoulder below said shank, tool mounting means including a support having an axially movable guide bushing engaging said shank above said cutting portion for relative endwise movement of the shank in the bushing, and means urging said bushing against said shoulder, whereby said tool is supported adjacent said cutting portion.

2,404,150
SHOE AND PROCESS OF MAKING THE SAME
John J. Walsh, Des Peres, Mo., assignor to Charles D. P. Hamilton, Jr., Charles D. P. Hamilton, III, Everett R. Hamilton, Forest Ross Hamilton, Albert J. Scheu, and John J. Walsh, a partnership doing business under the trade-name Penaljo Company, St. Louis, Mo.
Application March 25, 1944, Serial No. 528,078
3 Claims. (Cl. 12—142)



1. That process of shoe production which includes the provision of an insole-cover having approximately the contour of the finished shoe, providing an upper also having the approximate dimensions and shape desired in the finished shoe, then securing the upper marginally to, and upon the upper face and at a selected distance from the outer edge of, the cover for joining the cover and upper and providing a marginal portion for insole underfolding, then disposing an insole to and upon the under face of the insole-cover, then underfolding and securing said marginal cover portion and upper portion partially to and upon the under face of the insole, disposing a last within the upper and upon the cover, and then pulling and folding the remaining part of said upper and cover marginal portion under and securing the same to the insole.

2,404,151
ANCHOR
William J. Washam, Harrisonburg, Va.
Application December 12, 1944, Serial No. 567,860
4 Claims. (Cl. 189—92)



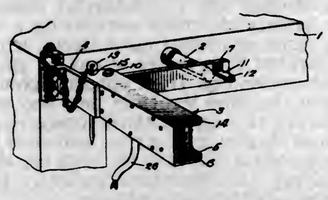
1. A device of the kind described, comprising a shank means on the upper end of said shank for engaging a guy wire or the like, a stem threaded in said shank through one end thereof, spreading wings loosely hinged to each other and slidable on the stem, and linkage pivoted to the wings and detachably coupled to the stem.

2,404,152
ANCHORING BRACKET
Charles J. Weller, Coulee City, Wash.
Application June 19, 1942, Serial No. 447,713
3 Claims. (Cl. 174—81)



2. An entrance bracket, comprising: a rigid tubular conduit having an entrance cap on its upper end, said entrance cap having a downwardly directed opening to receive from below an electrical conductor wire, an insulative spool surrounding said conduit and supported thereon closely adjacent said cap, said spool being adapted to be encircled by and thus have anchored thereto a conductor wire strung from a remote point and from which a lead-in conductor is upwardly passed to said opening in the entrance cap, means below said spool for securing said conduit to a building structure in an upright position, and means above said spool for bracing said conduit on its securing means whereby the weight and drag of the conductor from spool is borne by said conduit.

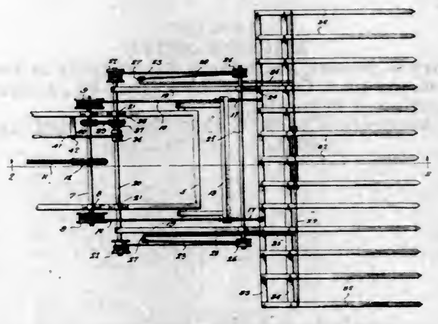
2,404,153
SAFETY DEVICE FOR BOAT HOISTS
Albert R. Wilhelm, Louisville, Ky.
Application July 6, 1943, Serial No. 493,650
4 Claims. (Cl. 74—407)



1. A safety device for electro-mechanical hoists comprising, a housing, a locking bar pivotally secured to said housing, adapted to swing outwardly to a position blocking the operation of said hoist by mechanical means, a switch within said housing connected in the power line for electrical operation of the hoist, means adapted to be contacted by said guard to cause the switch to close when the locking bar is swung outward, and means to lock the locking bar in its inward and outward positions.

2,404,154
BUCK RAKE STACKER
Dayton M. Williams, Bynumville, Mo.
Application October 19, 1944, Serial No. 559,336
2 Claims. (Cl. 214—82)

1. A buck rake and stacker comprising a main frame, a drive shaft rotatably mounted across the main frame, drums carried by said drive shaft and disposed outwardly from opposite sides of the main frame, a rake in front of said main frame and having rearwardly extending arms spaced outwardly from opposite sides of the main frame, a driven shaft rotatably mounted across the main frame in front of the drive shaft with end portions projecting outwardly from opposite sides of the main frame, said arms having their rear ends pivoted upon the driven shaft and mounting the fork for swinging vertically to raised and lowered positions, a walking frame pivoted to opposite sides of the main frame forwardly of the driven shaft, cables connecting the upper free end of the walking frame with the rear portion of said fork, cables connected with the upper portion of the walking frame and extending rearwardly therefrom and wound upon the drums of the drive shaft, a pusher frame

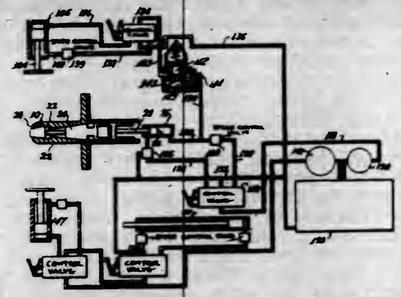


slideable forwardly and rearwardly along tines of said fork, pusher bowers extending rearwardly from the pusher frame outwardly of the rearwardly extending arms of the fork and having their rear ends bent to form outstanding lugs, bearings extending upwardly from the rearwardly extending arms of the fork, a shaft rotatably mounted through the bearings with its ends projecting outwardly from the pusher bowers, pulleys carried by the protecting ends of the last mentioned shaft, drums carried by the projecting ends of the driven shaft, cables attached to the lugs of the pusher bowers and extended forwardly and trained about the pulleys and then extended rearwardly and wound upon the drums of the driven shaft, and means for transmitting rotary movement from the drive shaft to the driven shaft including a clutch for controlling rotation of the driven shaft.

2,404,155
LOADING AND FEEDING APPARATUS FOR COILS OF STRIP METAL
Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application June 8, 1944, Serial No. 539,368. Divided and this application December 11, 1944, Serial No. 567,760
2 Claims. (Cl. 242—78)

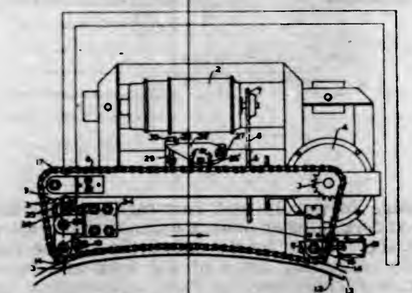
1. In a device for feeding strip metal and in combination with a rotatable expanding mandrel, means for expanding said mandrel into engagement with the inside of a coil of strip metal, two power driven pinch rolls for engaging the leading end of the coil of strip metal and feeding the strip metal for processing, and means for moving said pinch rolls into engagement with the strip metal, said means being interconnected

with said means for expanding said mandrel, to prevent said pinch rolls from being engaged with



the strip metal until said mandrel is in a fully expanded condition.

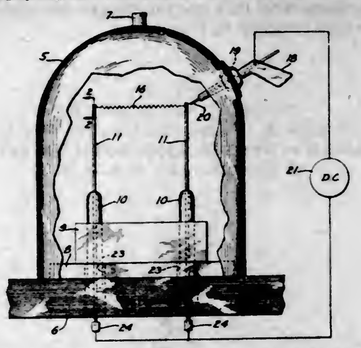
2,404,156
MACHINE DRIVE
Boyd R. Abbott, Norristown, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application April 10, 1943, Serial No. 482,644
6 Claims. (Cl. 74—221)



1. In a drive for a member to be driven having a series of spaced posts associated therewith to be engaged by driving means, driving means comprising a driven endless conveyor moveable for a portion of its run along the path of travel of the member to be driven, a driving pin carried by said conveyor and engageable with a post associated with the member to be driven to impart motion to said member, an electric motor for driving said conveyor, and means for automatically controlling the movement of the conveyor comprising a magnetic switch for controlling the supply of current to said motor, a limit switch in circuit with the magnetic switch for interrupting the supply of current thereto to cause said magnetic switch to open and interrupt the supply of current to said motor, a normally open switch in circuit with said magnetic switch for connecting the magnetic switch in circuit with the current source of supply therefor, a timer for periodically closing said normally open switch, and tripping means carried by said conveyor for actuating said limit switch upon completion of each intermittent movement of said member to be driven.

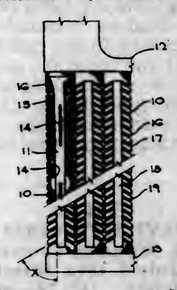
2,404,157
METHOD OF BONDING STRUCTURES
Frank W. Ahalt, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 8, 1943, Serial No. 501,544
6 Claims. (Cl. 219—10)

1. A method of uniting tungsten parts comprising assembling the parts in the desired relation, and applying an arc from a nickel electrode to the



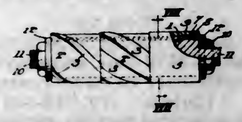
junction of the parts to deposit nickel thereon and unite the parts.

2,404,158
STORAGE BATTERY PLATE
Cornelius Ambruster, Roslyn, Pa., assignor to The Electric Storage Battery Company, a corporation of New Jersey
Application June 11, 1943, Serial No. 490,397
7 Claims. (Cl. 136—55)



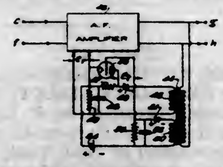
1. A retainer for a cylindrical element of a storage battery electrode comprising a one-piece tube of resilient insulating material whose walls are perforated by a series of closely spaced parallel slots extending from opposite points in the surface of the tube less than half way across the tube leaving two oppositely disposed narrow unperforated longitudinal strips, said slots in planes making an angle less than 90° with the axis of the tube leaving therebetween relatively thin parallel bands of elliptical periphery.

2,404,159
TRANSFER ROLLER FOR INK DISTRIBUTIONS
Howard M. Barber, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Original application June 11, 1942, Serial No. 446,600. Divided and this application June 12, 1943, Serial No. 490,562
4 Claims. (Cl. 91—67.8)



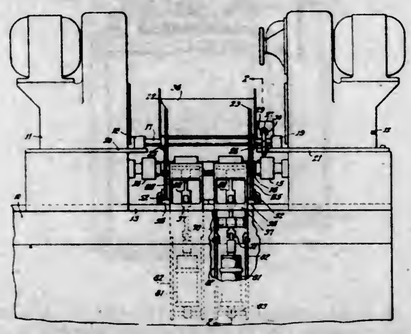
2. An ink transfer roller divided transversely into a plurality of removable sections, one section being provided with an annular series of ribs of a predetermined width, another section being provided with an annular series of ribs of a different width and still another section being provided with a ribless continuous ink transfer surface.

2,404,160
ELECTRIC CONTROL SYSTEM
Heinz Boucke, Berlin-Charlottenburg 2, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York
Application June 14, 1939, Serial No. 278,993
In Germany June 25, 1938
11 Claims. (Cl. 179—171)



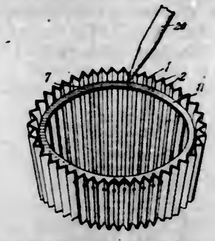
2. In a translation system for oscillatory signal energy including an amplifier, means comprising rectifying and filter means for producing an auxiliary potential by extracting and averaging a portion of the energy being translated, said filter means comprising a network of impedance elements, means to utilize said auxiliary potential for controlling the gain of said amplifier, means for producing a further auxiliary potential varying in proportion to variations of a different condition of the energy being amplified, and means to utilize said further auxiliary potential for controlling the magnitude of at least one of the impedance elements of said filter means.

2,404,161
INDEXING AND CHUCKING DEVICE
Byron F. Bower, Aurora, Ill., assignor to Pines Engineering Company, Aurora, Ill., a corporation of Illinois
Application May 28, 1945, Serial No. 596,247
12 Claims. (Cl. 82—2)



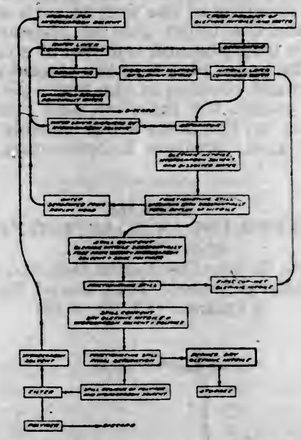
11. Mechanism for positioning and holding work pieces such as lengths of tubing and rods, comprising spaced supports, opposed chuck jaws for seizing a work piece on said supports, pivots for said jaws below the level of the supports, and means to close the jaws comprising bearing means on the outer opposite sides of said chuck jaws, spaced apart bearing members engaging said bearing means, and movable supporting means for said bearing members operable to raise and lower them in unison along lines of increasing angularity with respect to the jaws as the jaws are brought to closed position, whereby to provide a powerful wedging action clamping the jaws to the work, said supporting means comprising a vertically slidable drive member having opposed chuck jaw engaging members secured thereon.

2,404,162
METHOD OF MAKING LAMP SHADES AND SIMILAR ARTICLES
Joseph H. Brown, New York, N. Y.
Application June 3, 1944, Serial No. 538,566
7 Claims. (Cl. 93—1)



1. In the method of making lamp shades or the like, the steps of bringing a pleated strip in contact with a rotating cutter to cause the cutter to produce a line of notches along the apexes of the pleats in the strip, joining the ends of a section of said strip to form said section into a tube to bring the notches on the interior of the tube, and cementing a reinforcing ring into the line of notches.

2,404,163
METHOD OF REFINING CRUDE OLEFINIC NITRILES
Erwin L. Carpenter, Old Greenwich, Harold S. Davis, Riverside, and Oscar F. Wiedeman, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application October 31, 1939, Serial No. 302,072
13 Claims. (Cl. 202—42)

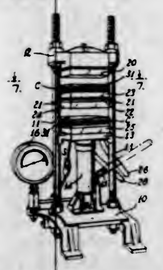


8. A method of refining a crude olefinic nitrile containing water to remove water therefrom which comprises distilling therefrom an azeotropic mixture of the nitrile and water, condensing the distillate, permitting the condensed distillate to stratify into an upper wet nitrile layer and a lower water layer, separating off the water layer, returning the wet nitrile layer to the distilland for recycling and finally collecting the substantially dehydrated nitrile.

2,404,164
ALIPHATIC OXYNITRILES
Erwin L. Carpenter, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 6, 1943, Serial No. 497,685
1 Claim. (Cl. 260—464)

β,β'-dicyano-diethyl ether of ethylene glycol.

2,404,165
PRESSING APPARATUS
Fred S. Carver, Short Hills, N. J.
Application March 4, 1943, Serial No. 478,025
2 Claims. (Cl. 154—1)



1. A vertically acting press for carrying out a hot pressing operation and a cold pressing operation at the same time and having a movable ram, columns, a head fixedly carried by the columns, an upper pair of platens, a lower pair of platens, one of one pair being fixedly secured to the head of the press, one of the other pair being carried by the ram, the other platens being insulated from one another and secured together to move as a unit, heating means carried by the platens of one pair to maintain them continuously heated to a predetermined temperature, cooling liquid circulating means for continuously chilling the other pair of platens, means for guiding said unit for movement up and down, and means limiting the lowering of the unit to such an amount as to space the upper pair of platens apart to permit the insertion and removal of a charge and support the upper platen of the second pair above the lowermost position of the lower platen a distance to permit the insertion and removal of a second charge, the press being closable to simultaneously apply pressure to both charges.

2,404,166
DEVICE FOR USE IN ROASTING POULTRY AND THE LIKE
Emma G. Danilla, Berlin Heights, Ohio
Application October 2, 1943, Serial No. 504,783
1 Claim. (Cl. 99—419)

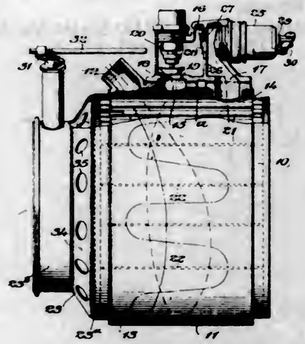


A device for use in roasting poultry and the like, said device comprising a one-piece thin flat metallic element consisting of a long shank having an intermediate portion of sinusoidal form and a pointed end, and a head at the other head of said shank extending transversely of said shank to form a T with said shank, said head disposed in the same plane as the shank, said shank adapted for insertion into the poultry prior to the roasting thereof, whereby said sinusoidal intermediate portion thereof provides an extended surface for conducting heat to the tissues of said poultry and thereby accelerating and increasing the efficiency of the roasting process, said head being relatively small, so that when said shank has been substantially fully inserted into the poultry, the head will not extend sufficiently outwardly from the poultry to interfere with the handling and placement of the poultry before, during, and after the roasting operation, and yet will extend sufficiently to permit removal of the device from the poultry by means of a fork having the tines thereof placed under said head.

2,404,167
RESOLUTION OF HETEROCYCLIC NITROGEN COMPOUND MIXTURES
Karl Henry Engel, Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application March 10, 1943, Serial No. 478,637
10 Claims. (Cl. 260—290)

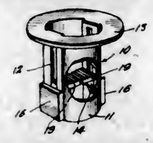
1. In a process for separating components of a mixture of pyridine homologs boiling in the range 140°–148° C., the steps which comprise subjecting to dry distillation a calcium chloride addition product of such mixture, and recovering at least one distillate fraction enriched in one of said pyridine homologs.

2,404,168
HEAT EXCHANGE UNIT
Walter H. Geddes, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application April 7, 1943, Serial No. 482,153
4 Claims. (Cl. 257—2)



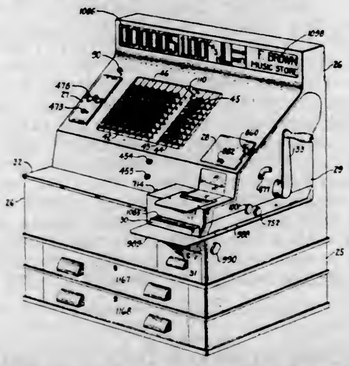
1. A heat exchange unit for use in a closed-circuit viscous liquid circulating system to cool the liquid during its circulation through the system, said unit comprising a casing having an inlet and an outlet for the liquid, means at the peripheral portion and also at the center portion of said casing for flow of air therethrough in cooling relationship to the liquid flowing therethrough, means to cause the liquid normally to flow through said casing and to flow in by-passing relationship thereto over the outside thereof when the liquid therein is congealed, a shutter casing mounted upon said first mentioned casing at one end thereof and extending beyond said end thereof, said shutter casing including an inner end portion of substantially the same cross sectional size and shape as said first mentioned casing and an outer end portion of reduced cross sectional area, a wall connecting said inner and outer end portions of said shutter casing and having openings therein for flow of cooling air at all times through the air flow means at the peripheral portion of said first mentioned casing, shutters in the said outer end portion of said shutter casing for regulating flow of cooling air through the central portion of said first mentioned casing, and means operable in response to variations in the temperature of the liquid when it is flowing through said casing to effect air-flow-regulating actuation of said shutters.

2,404,169
FASTENER
Norman L. Gidden, New York, N. Y.
Application August 14, 1945, Serial No. 610,719
5 Claims. (Cl. 85—3)



1. A fastener comprising a tubular shell having circumferentially spaced longitudinally extending slots, an outstanding stop at one end of the shell, a clamp member pivotally and slidably mounted on the outer face of the shell adjacent each slot and carried by each clamp member, means adapted to cooperate with a screw entered into the interior of the shell from the end carrying the stop to move the clamp members into a position perpendicular to the longitudinal axis of the shell and advance them toward the stop as the screw is turned.

2,404,170
CASH REGISTER
William S. Gubelmann, Convent, N. J.
Original application January 22, 1929, Serial No. 334,160. Divided and this application June 11, 1940, Serial No. 339,951
4 Claims. (Cl. 235—130)

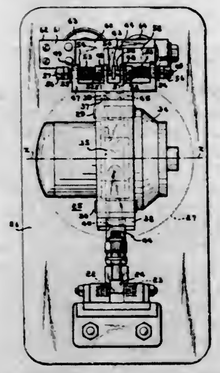


1. In a cash register, a main operating mechanism, a plurality of sets of depressible selection keys, a plurality of devices for locking up the main operating mechanism, each of said devices being controlled by a respective set of said keys, a plurality of manipulative members, each capable of being in at least three positions, and means positioned by one of said members to at least three positions, said means being locked in one position by movement of any of said locking devices to ineffective position while upon movement of said means to another position said means serves to couple all of said devices for simultaneous operation by the operation of any one by said keys, and upon movement to a third position said means simultaneously moves all of said locking devices to ineffective position and locks all of said keys.

2,404,171
MANUFACTURE OF RUBBER IN CELLULAR FORM
George Monty Hamilton, London, England, assignor to Callender's Cable & Construction Company Limited, London, England, a British company
No Drawing. Application April 3, 1941, Serial No. 386,657. In Great Britain May 16, 1940
2 Claims. (Cl. 260—724)

1. A process of producing cellular hard rubber, comprising mixing with a rubber composition ferrous oxalate in finely divided form, heating the mixed composition to a temperature substantially below 150° C., but high enough to vulcanise the rubber partially, for a time sufficient to cause the composition to develop internal strength by vulcanisation, and then heating the composition to a temperature substantially above 150° C., producing by this latter heating first the decomposition of the ferrous oxalate and thereby the expansion of the composition to a cellular form and then the completion of vulcanisation.

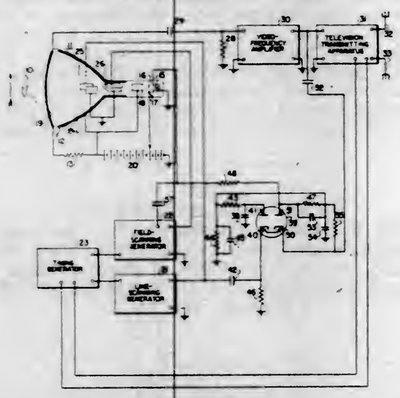
2,404,172
STABILIZER APPARATUS
Clinton R. Hanna, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1945, Serial No. 596,269
17 Claims. (Cl. 74—5)



1. In apparatus for stabilizing a pivotally-mounted object angularly about its mounting axis and wherein power means is arranged to apply forces to the object about the mounting axis to oppose angular motion thereof about such axis, a gyro including a support, a frame or casing pivotally carried by the support about a precession axis, and a rotor journaled in the frame or casing; means for mounting the support for angular movement with the object as the latter moves about its mounting axis with the precession axis normal both to the axis of angular movement of the support and to the rotor spin axis and with the latter axis extending trans-

versely of the axis of angular movement of the support so that angular velocity of the latter about its axis of angular movement is accompanied by proportional torque of the gyro about the precession axis; a control device for the power means and including an actuated member and an actuating member movable from mid-position relative to the actuated member to control the direction and magnitude of force applied by the power means to the object; an element unitary with the support and upon which said actuated member is mounted; and means for connecting the gyro frame or casing to the actuating member with the latter eccentric to the precession axis so that torque about the latter is effective for operation of the actuated member to control the power means to apply force opposing motion of the object about its mounting axis in response to the velocity of such motion.

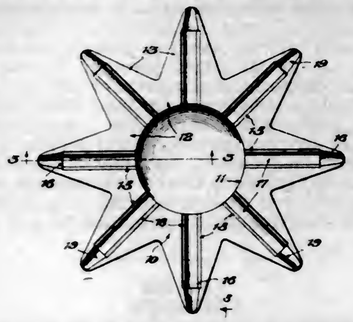
2,404,173
TELEVISION SIGNAL GENERATOR
John A. Hansen, Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application July 5, 1941, Serial No. 401,080
8 Claims. (Cl. 178—7.2)



1. A television signal generator comprising, a cathode-ray television signal-generating tube including a source of beam current and a beam-control electrode, means for deriving a signal output from said tube including video-frequency television signal components and spurious periodic pulses of larger amplitude than said television signal components which pulses vary in amplitude with variations of said beam current, means responsive primarily to said periodic pulses for deriving a unidirectional control effect, and means for utilizing said control effect to maintain said beam current substantially constant during trace periods of said signal generator.

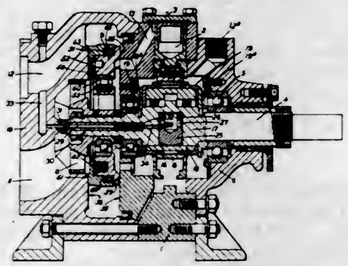
2,404,174
ASH TRAY
Charles F. Hines, Clarksburg, W. Va.
Application May 25, 1942, Serial No. 444,412
2 Claims. (Cl. 131—235)

1. An ash tray comprising a body formed with a bowl and a plurality of cigarette rests extending therefrom, said rests being of substantial length and formed with a cigarette receiving groove in the upper face thereof, said groove being of substantially rectangular cross section for the major portion of the length thereof, a supplementary groove of narrower width formed in the bottom of the receiving groove and providing therewith relatively sharp edged supporting means for the cigarette, the outer ends of said rests being formed with an arcuate groove having



an upper edge substantially triangular in form and the upper edge of said arcuate groove being in a plane above the bottom of the groove of narrower width.

2,404,175
HYDRAULIC PUMP OF THE RADIAL CYLINDER TYPE
Warwick Claude Holden and Joshua Challiner Naylor, Monkseaton, England, assignors to Vickers-Armstrongs Limited, London, England, a company of Great Britain
Application October 8, 1943, Serial No. 505,491
In Great Britain June 25, 1942
7 Claims. (Cl. 103—38)

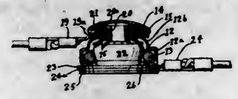


1. In a hydraulic pump having a series of cylinders and pistons radially arranged around a common driving shaft an eccentric in operative engagement with the shaft and in driving connection with the pistons and means which is responsive to the influence of the fluid pressure in the discharge side of the pump for varying the degree of eccentricity of the eccentric and effective length of stroke of the pistons; the provision of opposed plane surfaces on the shaft and eccentric respectively, anti-friction means located between said plane surfaces, and means accommodated within the shaft for transmitting fluid pressure to said eccentric to cause same to move at right angles relative to the axis of said shaft.

2,404,176
ELECTRIC CONTACT SNAP FASTENER
Otto J. Huelster, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application July 15, 1943, Serial No. 494,783
7 Claims. (Cl. 173—363)

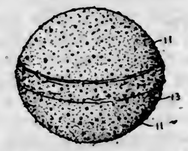
1. In a separable electric connector comprising conventional socket and stud members wherein

said stud is adapted to enter into the socket by a direct thrust, spring ring means in said socket for snap locking engagement with said stud, said socket having an apertured closed end portion, a contactor member having a neck portion project-



ing through said aperture and upset against said closed end portion, and spring fingers integral with said contactor member for resiliently engaging the leading end of said stud when in assembled position.

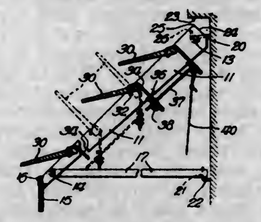
2,404,177
PASTRY
Richard P. Jetschmann, Milford, Conn.
Application March 5, 1942, Serial No. 433,411
4 Claims. (Cl. 99—137)



1. A food product comprising a plurality of baked edible shell sections of pastry; a mass of frozen confection enclosed thereby; and a thin sealing strip of dough closing the adjacent edges of said pastry sections and holding them together, said dough and pastry sections being provided with a crisp, fried crust.

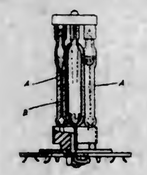
2. The process of producing a pastry which comprises the steps of forming a pair of hollow edible shells from a suitable batter, baking said shells, filling said shells with a frozen confection, superposing one shell on the other, sealing the line of jointure of said shells with a strip of dough, freezing and maintaining said product frozen hard and then submerging the filled shells in deep hot fat for sufficient time to cook said strip of dough and brown the outer surfaces of said shells without melting said confection.

2,404,178
ADJUSTABLE BLIND AWNING
Harold L. Johnson, Chicago, Ill.
Application June 21, 1944, Serial No. 541,392
16 Claims. (Cl. 20—57.5)



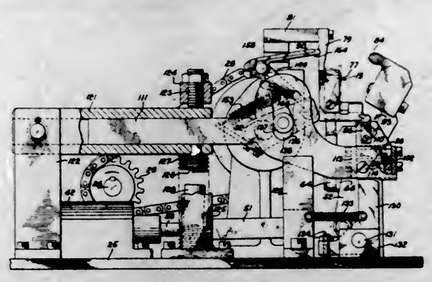
12. An awning comprising a frame having supporting arms, a plurality of overlapping slats pivotally connected with said arms, operative means connected with said slats and adapted for adjusting the angular relationship of the slats with respect to said arms, retaining means for holding said slats as adjusted, and abutment means on said slats for direct engagement with said supporting arms to normally maintain the slats apart but in overlapping inoperative position upon release of said operative means.

2,404,179
ELECTRICAL SWITCHING DEVICE
Edward Bolton King, Haslemere, England
Application June 28, 1943, Serial No. 492,616
In Great Britain April 17, 1942
4 Claims. (Cl. 200—33)



1. In a body subject to changes of velocity, an electrical switching arrangement for controlling electrical circuits carried by the body comprising a first switch adapted to operate in response to a change in velocity of one sign and thereafter to remain locked in the operative position and a second switch adapted to operate in response to a change in velocity of the opposite sign said first switch comprising a capillary tube for each pair of contacts to be operated, a bulb at each end of said capillary, a pair of said contacts protruding through the wall into one bulb and a conducting fluid in one bulb, and said second switch comprises a non-capillary tube for each pair of contacts to be operated, a pair of said contacts protruding through the wall into one end thereof and a conducting fluid at one end thereof.

2,404,180
BURR REMOVING APPARATUS
John W. King, Oak Park, and George Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 11, 1943, Serial No. 486,580
8 Claims. (Cl. 29—33)

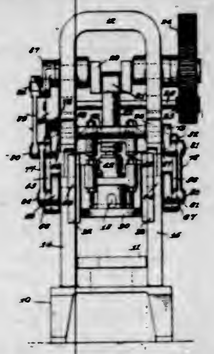


1. A burr removing apparatus comprising a clamping means for holding an article, a knife for cutting burrs from one portion of the article, a file for filing burrs from another portion of the article, a cam and crank shaft rotatable through a single cycle to cause operation of the clamping means, the knife and the file, means on the cam and crank shaft for imparting movement to the knife, and means cooperating with the means on the cam and crank shaft to guide the knife in a rectilinear path and in an arcuate path.

2,404,181
MECHANICAL DRAWING PRESS
William Kloeke, Woodhaven, N. Y.
Application March 16, 1945, Serial No. 583,096
8 Claims. (Cl. 113—38)

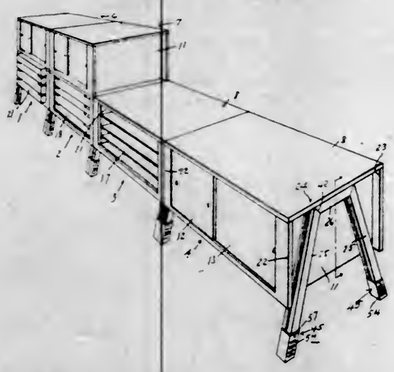
1. In a mechanical press, a frame, a blank-holder slide and actuating means therefor, said

actuating means comprising a bell-crank, a link connecting one arm of said bell-crank and said slide, a toggle comprising a link connected to the other arm of said bell-crank and a rock arm pivotally connected to the frame of the press at a



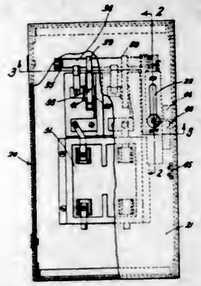
level above said bell-crank and above the working space between the bed of the press and the blank-holder slide, and a crank and pitman rod for moving the levers of said toggle to and from alinement.

2,404,182
FURNITURE
Ernest J. Kump, Jr., Atherton, Calif.
Application January 25, 1944, Serial No. 519,592
5 Claims. (Cl. 312—107)



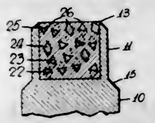
1. An article of furniture comprising a main body having a top and laterally facing end walls, two separate pairs of legs for supporting said body, means for securing the legs of each of said pairs rigidly together for handling as a unit, and means for detachably securing said pairs of legs to said body in positions outwardly of said two opposite end walls thereof but substantially adjoining the latter and extending from said top to points spaced below said body for supporting said body spaced above a supporting floor, said two opposite end walls being the bottoms of oppositely outwardly opening recesses formed at two opposite ends of said body, means forming the top and two lateral sides of each of such recesses, the lower side only of each of such recesses being open to permit passage of the said legs downwardly to said points, said recesses each being of a depth as great as the thickness of the legs of each pair in a direction transversely of the common plane in which each pair of legs is disposed.

2,404,183
ENCLOSED SWITCH
Edwin W. Landmeier, Erlanger, Ky., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a corporation of Kentucky
Application August 7, 1943, Serial No. 497,835
6 Claims. (Cl. 200—50)



1. In an enclosed externally operated switch the combination of a switch cabinet including a movable door, a rotary switch mounted therein, an actuator slide member guidedly mounted on the door of the switch cabinet, a yoke element having an open ended slot on one side of the slide for removably engaging and operating the switch, and a handle piece fixed to and projecting from the other side of the slide, said cabinet door having a rectilinear slot defining the limits of movement of said slide member at the off and on positions of the switch and permitting disposition of the handle on the exterior of the box and said yoke in the interior of the box when the door is closed.

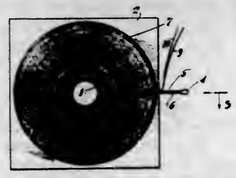
2,404,184
WHEEL DRESSING TOOL AND METHOD FOR MAKING THE SAME
William Ludel, New York, N. Y.
Application June 28, 1944, Serial No. 542,525
3 Claims. (Cl. 125—39)



1. The method of making a wheel dressing tool in which a plurality of diamond crystals are bonded by an alloy matrix within a form, the steps which include providing said form with a charge of diamond crystals and an alloy consisting of silver varying from about 10% to 25%, copper varying from about 67% to about 88%, and phosphorus varying from about 2% to about 8%, the diamonds being sparsely distributed, and heating said alloy with the diamond crystals in situ to the point where the alloy becomes highly liquid and free-flowing to the point of fluidity, permitting the crystals to adjust themselves in the liquid alloy independently of each other, and then cooling the mixture in the form.

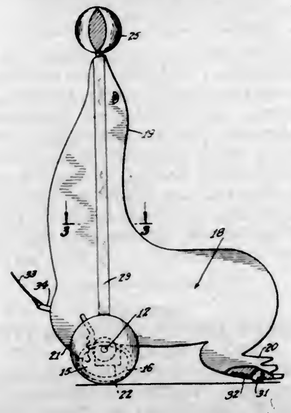
2,404,185
PROCESS OF MAKING INDUCTANCE COILS
Estle Ray Mann, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application November 11, 1943, Serial No. 509,879
6 Claims. (Cl. 29—155.57)

1. The process of making an induction coil, which comprises forming a loop in an insulated wire, locating the looped portion substantially radially on a spool, and winding the two portions



of the wire extending from the loop simultaneously.

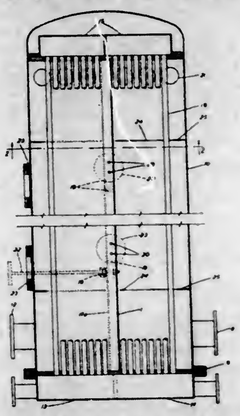
2,404,186
WHEELED TOY
Peter Mariani, Thomaston, Conn.
Application March 17, 1945, Serial No. 583,189
10 Claims. (Cl. 46—103)



1. In a wheeled toy, a vertical body block having a rear supporting section, said block having a pair of forward supporting wheels rigidly connected by a horizontal axle, a plate cam mounted on said axle and located in the center portion of said block, said block having a vertical bore, a stick having a ball rigidly secured to its upper end located in said bore, the lower end of said stick having means for continuously cooperatively engaging with the rim of said cam to cause said stick to reciprocate vertically and also to twist around its axis when said toy is moved across the floor.

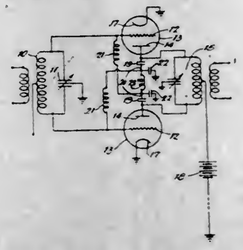
2,404,187
TUBULAR HEAT EXCHANGE APPARATUS
William Henry Millener, Guildford, England, assignor to Woodall-Duckham (1920) Limited, Guildford, England, a British company
Application July 25, 1944, Serial No. 546,492
In Great Britain August 27, 1943
12 Claims. (Cl. 257—222)

1. Tubular apparatus of the floating-head type for effecting heat exchange between fluids wherein the fluid flowing outside the tubes makes four parallel passes through the apparatus, including in combination a cylindrical enclosing shell of uniform diameter permanently closed at one end, a tube assembly incorporating four tube banks between inlet and outlet manifolds and a floating head, which tube assembly is insertable in and removable from the enclosing shell through the end opposite to the closed end, two pass plates arranged perpendicularly to one another across the interior of the shell, each of said pass plates being formed of two relatively movable and separable parts inserted between the tube banks with their inner portions overlapping, the inner edges of the parts of one pass plate bearing perpendicularly on the inner portions of the parts of the other pass plate, whereby movement of the two parts of one pass plate towards each other presses



the outer edges of the two parts of the other pass plate into contact with the interior of the enclosing shell, and means to press the inner portions of the pass plates towards each other and the outer edges into contact with the interior of the enclosing shell when the tube assembly and the pass plates are inserted in the shell.

2,404,188
NEUTRALIZED RADIO-FREQUENCY AMPLIFIER
Willis E. Phillips, Deerfield, Ill., assignor to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois
Application January 11, 1943, Serial No. 471,960
13 Claims. (Cl. 179—171)

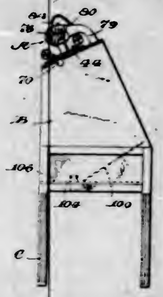


1. In an ultra-high frequency power amplifier including a thermionic tube and a neutralizing condenser and a neutralizing conductor for supplying plate energy to a control grid, the combination with said neutralizing elements of an inductor of substantially no resistance arranged in parallel with the distributive capacity of said conductor and condenser and connected thereto adjacent their junction.

2,404,189
MICROFILM PROJECTOR
Robert Place, Waltham, Mass., assignor to Graphic Microfilm Service, Inc., Waltham, Mass., a corporation of Massachusetts
Application September 24, 1942, Serial No. 459,565
6 Claims. (Cl. 88—24)

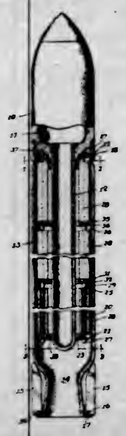
1. In a reading machine in combination, a film supporting and advancing means, projection

mechanism, separable plates forming a film gate, an electric motor for driving said film advancing means, solenoid means including a magnetically actuated member operatively connected to at least one of said plates, an electric circuit between said motor and a source of current, and a second circuit between said solenoid and said source, said



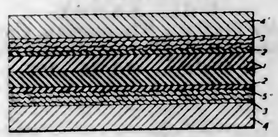
last circuit including circuit closing means driven by said motor, said circuit closing means being normally open when said motor is at rest and adapted to close instantly when moved in either direction, thereby holding said gate open during the time said film is in motion, and closing it only while the film is at rest.

2,404,190
CAGE MEMBER
Winslow B. Pope, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application February 22, 1944, Serial No. 523,416
4 Claims. (Cl. 102—49)



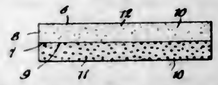
1. A device for supporting annular charges of combustible material for use in rocket projectiles, comprising a pair of spaced coaxial annular end plates, a plurality of parallel rod-like elements extending between and supported by said end plates in circumferentially spaced relation with respect to each other, means intermediate said end plates for locking said rod-like elements against lateral movement, said means including a pair of annular abutting plates, the one surrounding said elements and having radial recesses in its inner periphery and the other being surrounded by said rod-like elements and having radial recesses in its outer periphery, said rod-like elements being seated in said recesses of both said plates and said recesses being of such width as to closely engage and thereby confine said rod-like elements against lateral movement, said rod-like elements being arranged to support the annular charges of combustible material between said end plates and said intermediate plates.

2,404,191
DIELECTRIC HEATING ELECTRODE
Joshua Creer Quayle, Helsby, and Peter Jones, Kelsall, near Chester, England, assignors to British Insulated Cables Limited, Prescot, England, a British company
Application April 9, 1945, Serial No. 587,353
In Great Britain April 22, 1944
5 Claims. (Cl. 219—47)



1. In apparatus for subjecting thermoplastic or thermosetting insulating material to pressure whilst generating heat therein by the action of a high frequency field of electric force, a high frequency electrode having a composite facing consisting of an inner layer of high-loss, inorganic, insulating material having an open fibrous structure and of an outer layer of high-loss, heat-stable, insulating material having a non-fibrous structure, by which pressure is applied to the material to be treated.

2,404,192
ABRASIVE ARTICLE AND METHOD OF MAKING
Kernell G. Ries, Niagara Falls, Norman P. Robie, Lewiston, and Phyllis von Doenhoff, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application December 29, 1944, Serial No. 570,314
7 Claims. (Cl. 51—211)

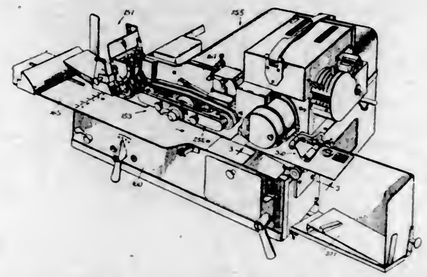


1. A resin bonded composite abrasive article having at least two dissimilar abrading bodies integrally united by means of compatible resin bonds of the constituent abrasive bodies, the characteristic abrasive material of each abrading body of the article being separated from the abrasive material of the adjoining abrading body by a thin layer of sheet material permeable to the resin bonds but impervious to the abrasive materials of said article.

2,404,193
SEALING AND EJECTING APPARATUS FOR MAIL TREATING MACHINES
Commodore D. Ryan, Los Angeles, Calif., assignor to Commercial Controls Corporation, a corporation of Delaware
Application October 16, 1942, Serial No. 462,262, which is a division of application Serial No. 421,321, December 2, 1941, which is a division of application Serial No. 332,305, April 29, 1940. Divided and this application September 1, 1943, Serial No. 500,755.
8 Claims. (Cl. 120—6)

1. In a mail treating machine wherein envelopes are conveyed along a horizontal table

to and through a moistening device and to a final sealing and ejecting device which ejects the envelopes in generally horizontal direction into a receiving hopper, said sealing and ejecting device comprising, in combination, upper and lower elements arranged above and below the path of travel of the envelopes for receiving the envelopes from said moistening device and ejecting them into said hopper, one of said ele-



ments including a pair of spaced, unconnected rollers having their axes arranged transversely of the path of travel of the envelopes, one of said rollers being so positioned relative to said path of travel as to bear against the crease at the top of the envelope and the other of said rollers being so positioned as to bear against the body of the envelope, and means for driving at least one of said elements.

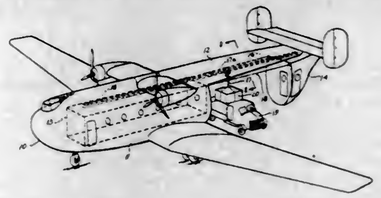
2,404,194
IRONING BOARD
Max Sass, New York, N. Y.
Application November 9, 1944, Serial No. 562,674
1 Claim. (Cl. 38—104)



In an ironing board assembly, the combination of a main ironing board having an elongated opening therein, a supplemental sleeve-ironing board of substantially the same size as the opening and normally positioned therein, a resilient pad covering the upper surface of the sleeve board, the upper surface of the pad normally being planar with the upper surface of the main board, a pad normally covering the main board and the sleeve board and being removable therefrom, and means for raising the sleeve board to an elevated position substantially parallel with the main board when the removable pad has been removed.

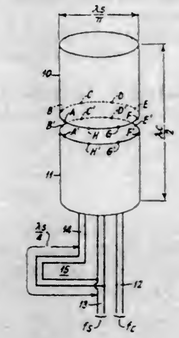
2,404,195
CARGO AIRCRAFT
Ernest W. Schlieben, Scarsdale, N. Y., assignor to York Research Corporation, New York, N. Y.
Application June 29, 1943, Serial No. 492,699
5 Claims. (Cl. 244—137)

5. In a cargo aircraft, the combination of a cargo compartment having a rear opening, a tail boom extending rearwardly from the top of said rear opening, a guide rail positioned adjacent the ceiling of said compartment and extending beyond the rear opening along a portion of said tail boom, a supporting rail carried by said portion of the tail boom, conveying means arranged to travel along said guide rail, said guide rail being comprised of a plurality of sections, one of such sections being rigidly secured, within said compartment and extending rearwardly substantially to the rear opening of said compartment, another of said sections extending along



said tail boom and being retractable into said compartment, a fairing forming a closure for the rear opening of the cargo compartment and being attached to the rear end of the retractable section of the guide rail and being movable with said retractable portion of the guide rail.

2,404,196
RADIO BEACON SYSTEM
Stuart W. Seeley, Bayside, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1940, Serial No. 332,547
10 Claims. (Cl. 250—11)

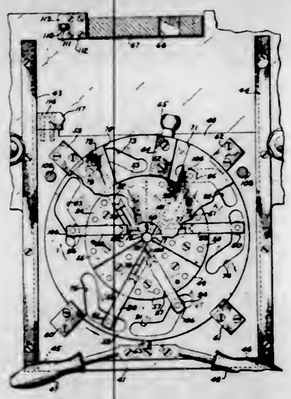


1. In a radio beacon system, a vertical dipole antenna, means for so energizing said antenna that a uniform circular field is radiated and means for separately and simultaneously so energizing said antenna that a uniform spiral field is radiated.

2,404,197
ARTICLE ASSEMBLING APPARATUS
Emil Sirp, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1943, Serial No. 491,129
7 Claims. (Cl. 113—1)

1. In an article assembling apparatus, means for supporting a plurality of article parts in position to be assembled, a cam plate encircling said supporting means and having a plurality of camming surfaces formed in it, a plurality of sets of opposed, coaxially reciprocatable assembling tools slidable in said supporting means and operable upon opposite sides of abutting article parts in said supporting means, cam means slidable in said supporting means and engaging said camming surfaces for actuation thereby, and means for

oscillating said cam plate in opposite directions to separately actuate opposed tools, one tool of



each set being operable on the parts in each direction of oscillation of the cam plate.

2,404,198

DISAZO AND POLYAZO BENZIDINE TYPE DYESTUFFS

Fritz Straub, Kaiseraugst, near Basel, and Jakob Brassel, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland, a Swiss firm

No Drawing. Application August 23, 1943, Serial No. 499,707. In Switzerland September 3, 1942

15 Claims. (Cl. 260—159)

1. Azo dyestuffs of the general formula



wherein R stands for the radical of a coupling component selected from those belonging to the benzene and naphthalene series and Pz stands for the radical of a pyrazolone coupling component.

2,404,199

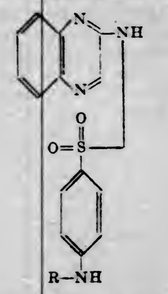
2-SULPHANILAMIDO-QUINOXALINE

John Weijlard, Westfield, and Max Tishler, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application January 8, 1944, Serial No. 517,560

8 Claims. (Cl. 260—239.6)

1. A compound represented by the formula:



wherein R is selected from the class consisting of H and acyl.

2,404,200

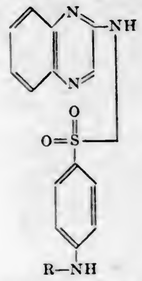
2-(4-SUCCINYL-AMINO-BENZENE-SULPHONAMIDO)-QUINOXALINE

John Weijlard, Westfield, and Max Tishler, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application September 7, 1944, Serial No. 553,104

1 Claim. (Cl. 260—239.6)

A compound represented by the formula:



wherein R is a succinyl group.

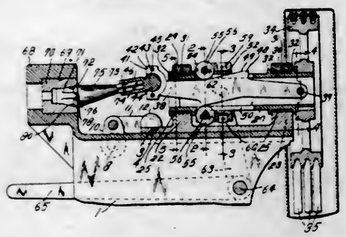
2,404,201

BIT SHARPENING MECHANISM

Wade H. Wineman, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application November 11, 1943, Serial No. 509,869

21 Claims. (Cl. 76—5)



1. In an apparatus of the character described, in combination, a work support member, a forming die member having a working face adapted to engage the work at points spaced from the axial center line of the die member distances varying with the angle formed between said axial center line and the axial center line of said support member, adjustable means for supporting one of said members so that it may be positioned with its axial center line in different angular positions relative to said axial center line of the other of said members while the die member engages the work to be formed, and means for actuating said one of said members while its angular position of adjustment remains fixed with respect to said axial center line of said other member so that the axial center line of said one member generates a surface conforming to that of a cone.

2,404,202

COMBINED BILGE AND TANK WASHER AND JET PUMP

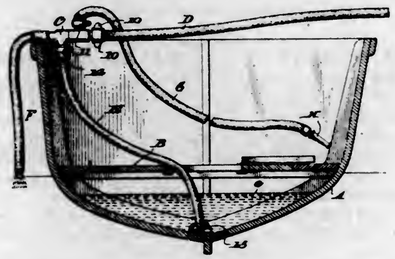
Charles A. Winslow, Oakland, Calif.

Application December 11, 1944, Serial No. 567,754

2 Claims. (Cl. 103—262)

1. A combined jet pump and washing apparatus including a jet element, said jet element having a tapered outwardly threaded jet at one

end and an enlarged intake opening axially formed at the other end, an accumulator chamber formed between said jet and said inlet, said chamber being formed with a lateral outlet connection, a flexible conduit connected to the lateral outlet connection, said conduit having a valved nozzle at its free end for manual control



of the discharge of fluid from the accumulator chamber for proportioning the discharge through said nozzle and jet, and an angle pipe member, said angle pipe member having an internally threaded opening axially formed with respect to one of its arms for threaded engagement with the threaded jet, and including a restricted wall portion immediately forward of said jet.

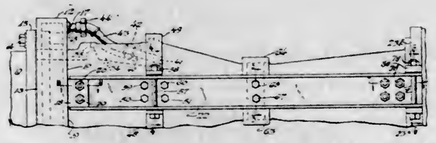
2,404,203

EXHAUSTER

Carl F. Zimmermann, Chicago, Ill., assignor to Aerostream Pneumatic Conveyers, Inc., Chicago, Ill., a corporation of Illinois

Application August 20, 1942, Serial No. 455,538

10 Claims. (Cl. 302—25)



1. In a steam jet exhauster of the character described, a steam manifold of ring form having means on one face thereof for connection to a conduit, oppositely disposed frame members affixed to said manifold and projecting from said manifold in the direction opposite to the conduit, said frame members having a discharge flange affixed thereto at the ends remote from the manifold, said discharge flange having means for attachment of a conduit thereto, spaced two-section connecting clamps attached to said frame members intermediate the ends thereof, a diffuser tube interposed between the manifold and the discharge flange and having a mixing chamber, a tubular throat portion and a tubular discharge portion, said portions being removably supported on said frame members by said clamps and said discharge flange, a suction chamber comprising a tubular member having an inlet end extending into the manifold whereby to protect the inner wall thereof, said tubular member having circumferentially spaced apertures therein, nozzle housings in said apertures and steam jet nozzles connected to the manifold and extending through said housings and apertures into the interior of the mixing chamber.

2,404,204

DECARBOXYLATED HALF ESTERS OF HYDROXYLATED FATTY OILS AND ALPHA UNSATURATED POLYCARBOXYLIC ACIDS

Maynard C. Agens and Birger W. Nordlander, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application January 20, 1943, Serial No. 472,988

19 Claims. (Cl. 260—23)

1. A polymerizable decarboxylated partial esterification product of a hydroxylated fatty oil and an alpha unsaturated polycarboxylic acid obtained by heating a partial esterification product of a hydroxylated fatty oil and an alpha unsaturated polycarboxylic acid containing free carboxyl groups with an amine selected from the group consisting of pyridine, quinoline, nicotine, piperidine, and their homologues.

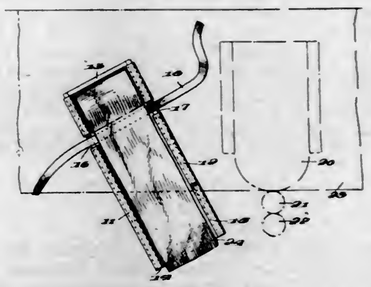
2,404,205

STOCKING STACKING AND BANDING DEVICE

Edward R. Ammon, Reading, Pa.

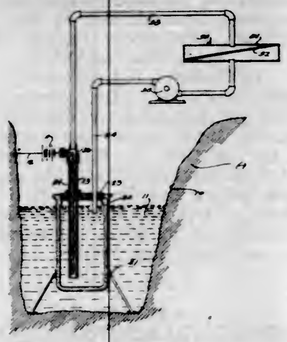
Application September 11, 1941, Serial No. 410,485

4 Claims. (Cl. 100—31)



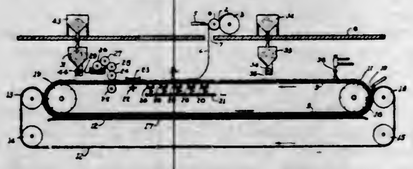
1. A stocking seaming machine accessory comprising a relatively narrow and elongated open-topped receptacle adapted to have stockings stocked lengthwise therein as they are removed from the seaming machine, said receptacle including an elongated base wall sufficiently long to support the top and main leg portion of stockings but being short enough that the foot portion of stockings stacked in the receptacle will project beyond one end of the base, said base end being so formed without obstruction that the stocking foot portions will hang downwardly thereover without danger of snagging or otherwise injuring the delicate stocking fabric, opposite side wall members secured to and forming with the base wall a relatively narrow elongated stocking-receiving channel, said side walls being located in spaced apart relation just sufficient to accommodate the width of a stocking leg so that stockings received in the receptacle tend to lie flat and stack singly on top of one another in substantial vertical alignment, a vertical end wall upstanding from the base wall closing the end of the receptacle receiving the stocking tops and against which the top edges of the stockings can be stacked in substantial vertical alignment, and opposite tie band receiving narrow vertical channels in the respective sides of the receptacle above an intermediate point in the length of the receptacle base wall adapted to receive a tie band for application around the stockings stacked in the receptacle.

2,404,206
METHOD OF MINING NATIVE COPPER
Paul W. Arvidson, Needles, Calif.
Application April 16, 1943, Serial No. 483,302
1 Claim. (Cl. 204—10)



In a continuous process for the removal of copper from native copper beds, the steps of which consist in filling a depression in the native copper bed with a suitable electrolyte, providing an electric circuit with a source of power in which the native copper bed serves as the anode with a cathode immersed in the electrolyte, causing the copper to deposit upon the cathode in rather loose, fluffy masses, continuously removing the deposited copper from the cathode by loosening it therefrom by causing the electrolyte to wash continuously over the cathode in a confined, rapid, uninterrupted stream, flowing in one direction only, and filtering said copper from said stream.

2,404,207
ABRASIVE BELT
Albert L. Ball, Lewiston, N. Y., assignor, by mesne assignments, to United Cotton Products Company, Fall River, Mass., a corporation of Massachusetts
Application June 29, 1940, Serial No. 343,105
12 Claims. (Cl. 51—188)

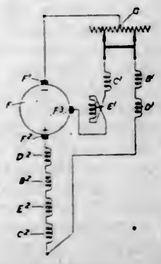


1. The method of making a continuous endless and jointless felted fibrous web of homogeneous non-lamellar cross-section which comprises removing a thin continuous membrane of fibrous material from a carder, aerodynamically agitating said membrane to disturb and up-end the ends of the individual fibers from their normally parallel position without rupture of the membrane, feeding said membrane upon a moving endless support, retaining the initially deposited membrane upon said support while repeatedly passing said endless support with the initially deposited membrane beneath the carder to receive additional superimposed membranous layers while the ends of the individual fibers of the deposited membrane on the moving support are up-ended for interlocking with the fibers of that portion of the membrane being deposited to such an extent that the fibers of adjacent membranous layers interengage and interlock sufficiently to produce a homogeneous non-lamellar structure, continuing the deposition of said continuous membrane under said conditions for interlocking and without interruption of the flow of membrane from the carder until a jointless and endless web of the desired thickness is formed on the endless support, breaking the flow of membrane from the carder and removing the resulting fibrous web from said support.

2,404,208
MANUFACTURE OF MOLDED ARTICLES
Donald Hugh Bangham, London, John Godolphin Bennett, Kingston-on-Thames, Robert Leslie Brown, Liverpool, Wallace Hirst, Kingston-on-Thames, Marcello Pirani, Kingston Hill, and George Cordery Phillpotts, London, England, assignors to C. D. Patents Limited, London, England, a company of Great Britain
No Drawing. Application June 30, 1943, Serial No. 492,968. In Great Britain July 15, 1942
4 Claims. (Cl. 18—55)

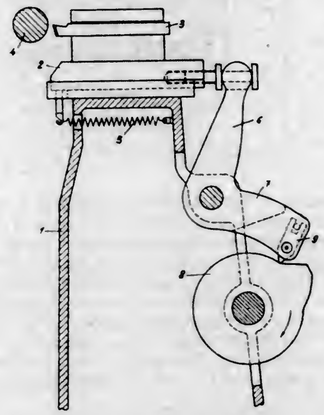
1. The process of producing shaped articles useful in industry, which comprises, finely comminuting bituminous coal having a content of volatile matter between 13 and 42 per cent calculated on the dry ash-free coal, intimately mixing the same with a softening agent, and subjecting the mixture in a mold to a pressure of at least about 250 atmospheres at a temperature which is at least 256° C. and under the pressure used lies between the temperature at which the mixture as a whole begins to soften and that at which it undergoes intumescence, the said softening agent serving to cause the mixture to begin to soften at a lower temperature than that at which the coal treated would soften if heated alone, and being present in a proportion sufficient under the pressure used to produce a mixture with the particular coal treated which will soften without undergoing intumescence and not exceeding about 35 cc. per 100 grams of coal, maintaining such pressure and temperature until the material treated has agglutinated and the desired article is formed, releasing the pressure and cooling the molded article.

2,404,209
ELECTRIC GENERATOR
John Wallis Bayles, Roker, Sunderland, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain
Application January 18, 1943, Serial No. 472,757
In Great Britain March 13, 1942
4 Claims. (Cl. 171—223)



1. An electric generator for use in arc welding, developing a relatively high striking voltage, a minimum voltage on short circuit, and a voltage of intermediate value under the normal load imposed by a drawn arc, said generator having pairs of adjacent poles of like polarity on open circuit, each pair comprising a main pole in which the flux tends to be increased by armature reaction but is restricted by saturation, and an auxiliary pole in which the flux tends to be reduced and reversed by armature reaction, series windings on the auxiliary poles, shunt windings on the main poles, and shunt windings on the auxiliary poles including a reverse shunt winding so connected that its magnetomotive force opposes the flux established in the pole on open circuit.

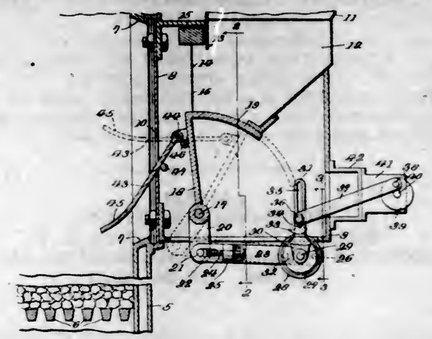
2,404,210
MOTION-TRANSMITTING LEVER FOR AUTOMATIC MACHINE TOOLS
André Bechler, Moutier, Switzerland
Application September 4, 1942, Serial No. 457,359
In Switzerland July 4, 1940
2 Claims. (Cl. 74—569)



1. Shear bolt device for use in a mechanical drive having a cam and a cam follower lever, comprising laterally spaced flanges on said lever, a hardened sleeve in each of said flanges, said sleeves being in axial alignment parallel to the axis of the cam, a cam feeler mounted between said flanges with its opposite side faces contacting the inner ends of said hardened sleeves, a shear bolt of material softer than said sleeves traversing and being in double shear between said sleeves and said cam feeler, and pin and slot guide means between said flanges and said feeler at the end of the latter remote from the cam, said guide means being operative in a line substantially radial to the cam.

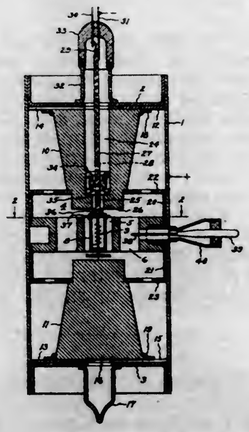
2,404,211
FURNACE STOKER
William P. Biddle, Jr., and Hugh W. Sanford, Jr., Knoxville, Tenn., assignors to Hugh W. Sanford, Knoxville, Tenn.
Application December 2, 1941, Serial No. 421,356
17 Claims. (Cl. 110—109)

1. A stoking apparatus for a furnace having a fire bed, and a firing door opening; a firing door, a housing carried by said door, a fuel hopper supported by the housing and having a gravity discharge throat normally open for delivery of fuel from said hopper and disposed in said housing, said door and housing having registering openings therein adjacent the throat and communicating with the interior of the furnace at an elevation above the fire bed so that fuel discharged through said throat and delivered through said openings will fall by gravity onto said fire bed, a yieldable uprightly disposed wall in part defining the portion of the normally open discharge throat nearest said openings and yieldable so as to be displaceable by fuel lumps or large particles of foreign matter to permit passage thereof toward said



openings, and a fuel feeding pusher reciprocable across the throat close beneath said uprightly disposed yieldable wall and effective upon each forward stroke to deliver a charge of fuel from the throat through said openings and into the furnace.

2,404,212
MAGNETRON
Ralph J. Bondley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 24, 1942, Serial No. 470,041
9 Claims. (Cl. 250—27.5)

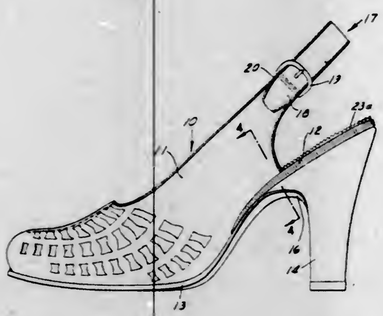


1. An electric discharge device of the magnetron type comprising a plurality of enclosed electrodes including a cathode and an anode structure substantially surrounding said cathode and having opposed end faces, means for establishing a magnetic field comprising a pole piece having a pole face substantially parallel to an end face of said anode structure, said pole piece having a longitudinal channel extending therethrough and terminated in the plane of said pole face, cathode supporting structure extending through said channel, said channel having a restricted section in the vicinity of said pole face, and an insulating supporting structure for said cathode structure positioned within said channel and in abutment with a shoulder of said restricted section.

2,404,213
ROSIN CARBONATES
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 9, 1942, Serial No. 468,427
5 Claims. (Cl. 260—100)

5. A mixed ester of carbonic acid and an alkyl alcohol and a rosin alcohol selected from the group consisting of a hydrogenated rosin alcohol, polymerized rosin alcohol, dehydrogenated rosin alcohol and heat-treated rosin alcohol.

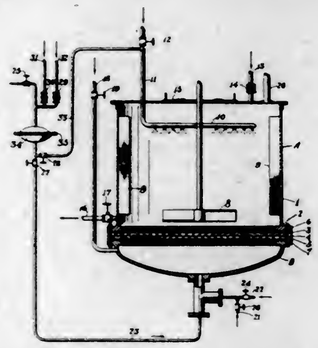
2,404,214
SHOE CONSTRUCTION
Salvatore Cangemi, Brooklyn, N. Y.
Application November 21, 1944, Serial No. 564,448
5 Claims. (Cl. 36—19.5)



1. In an open back shoe the combination of an upper having at each side a free rear edge extending upwardly from the sole of the shoe, an insole having at each side thereof a slit starting at the rear of the shank, said slit extending forwardly and outwardly through the edge of the insole and inclining downwardly and inwardly to provide a tongue having a substantial width at the edge of the insole and an edge having at the rear thereof a thickness equal to that of the insole and decreasing in thickness to a forward edge at the lower surface of the insole, said upper being secured in said slit and extending from the bottom face of said insole upwardly through said slit.

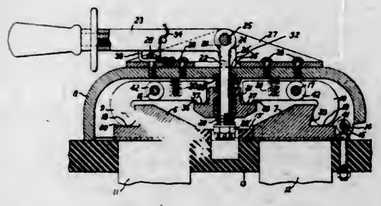
2,404,215
SLURRY FILTRATION
Robert Morris Cavanaugh, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 2, 1943, Serial No. 504,711
6 Claims. (Cl. 210—62)

6. The process of separating solid particles of various size from a liquid which comprises introducing the liquid containing said solid into a vessel having a filter across the bottom thereof and agitating same, passing air up through the filter therein, thereby keeping said particles in suspension, stopping the upward flow of air allowing the large particles to settle desirably upon said filter by gravity, causing the liquid to flow through the filter and aiding said flow therethrough by applying suction thereunder, providing a container under said filter, withdrawing the liquid from the container beneath said filter and assisting said withdrawal by allowing air to pass into said container through a vent therein, removing substantially all of the recoverable liquid remaining on the solid thus formed and in the interstices between the particles thereof by at least one liquid displacement treatment, causing the liquid to pass through said filter into said container, promoting the passage of liquid through the filter by applying suction thereto, removing the liquid from said container and aiding said removal by allowing air to pass there-



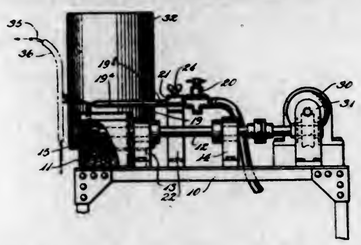
into through a vent therein, forming a slurry of the refined solid and removing same from said vessel, said process being carried out in such a manner that the first filtrate is passed through a clean-up filter and the liquid for the first displacement wash subsequently is passed, together with air, through said clean-up filter before introduction into the filter vessel, said wash liquid being passed through the clean-up filter in the opposite direction to that in which said filtrate passed.

2,404,216
ELECTRIC SWITCH
Gerald P. Clute, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application January 11, 1943, Serial No. 471,925
21 Claims. (Cl. 200—50)



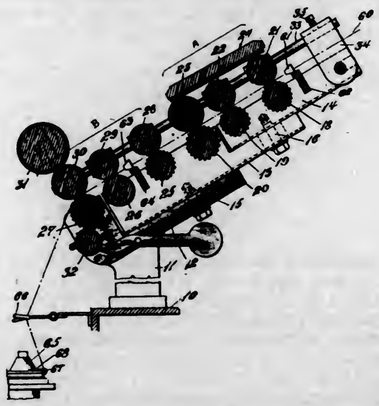
2. An electric switch comprising two spaced stationary contacts and means for conductively connecting said contacts comprising a member supported for movement into switch closable position over the contacts, two spaced contacts pivotally mounted on said member for movement therewith and relatively thereto into engagement with said two stationary contacts respectively when the member is in the switch closable position, and means carried by said member and adapted to be operated to move the member to and from the switch closable position and to move the remote ends of said pivotally mounted contacts into engagement with said stationary contacts when the member is in the switch closable position.

2,404,217
SPRAYING APPARATUS
Arthur E. Collins, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 27, 1944, Serial No. 546,830
1 Claim. (Cl. 91—45)



Spraying apparatus comprising a disc rotatable about an axis and having a beveled peripheral margin, means for providing on said margin a deposit of material to be sprayed, means for directing a jet of fluid against said margin in a direction substantially parallel to the axis of said disc to form a spray of said material, and means for adjusting said jet with relation to said margin.

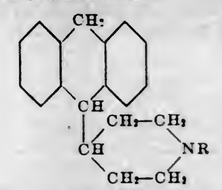
2,404,218
APPARATUS FOR DRAWING
Arthur Crossley, Wauregan, Conn., assignor to Wauregan Mills Incorporated, a corporation of Connecticut
Application September 2, 1943, Serial No. 501,016
3 Claims. (Cl. 19—130)



1. In a spinning apparatus, a group of three pairs of rolls for drafting the strand, a second group of three pairs of rolls adjacent said first group for drafting the strand located to receive the strand from the first group without intermediate feeding or contact, the delivery rolls of the preceding group and the receiving rolls of the succeeding group having substantially the same surface speed for transferring the strand from one group to the next group without draft, means for mounting the delivery rolls of the second group, a slide adjustable relative to said means for mounting the intermediate and feed rolls of said second group and the delivery rolls of the first group and a second slide adjustable relative to said means and the first slide for mounting the intermediate and feed rolls of said first group.

2,404,219
TERTIARY AMINO DERIVATIVES OF DIHYDRO-ANTHRACENE
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Original application October 7, 1943, Serial No. 505,355. Divided and this application May 12, 1945, Serial No. 593,541
2 Claims. (Cl. 260—293)

1. New compositions of matter comprising tertiary amines of the formula:

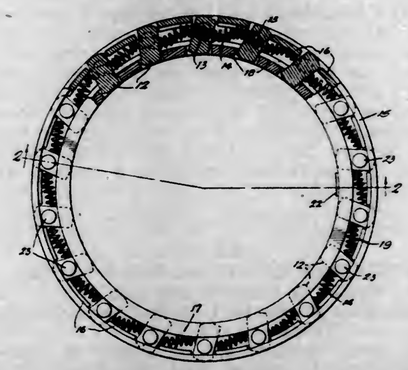


wherein R represents an alkyl group containing not more than four carbon atoms.

2,404,220
COPOLYMERS OF DIVINYL BENZENE AND VINYL ACETATE
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application June 23, 1942, Serial No. 448,156
3 Claims. (Cl. 260—86)

2. The process which comprises polymerizing a composition comprising a solution of divinyl benzene in a dialkyl benzene having at least two carbon atoms in each alkyl grouping, in the presence of both vinyl acetate and a catalyst for the polymerization, for a period less than required to cause gelation of the solution, and isolating the heat-convertible, fusible, partially polymerized product, the vinyl acetate and divinyl benzene being present in the said solution in an amount, by weight, corresponding to from 5 to 75 parts of the former to from 50 to 25 parts of the latter.

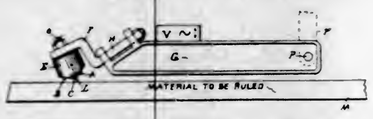
2,404,221
ONE-WAY CLUTCH
Adiel Y. Dodge, Rockford, Ill.
Application July 3, 1944, Serial No. 543,288
11 Claims. (Cl. 192—45.1)



1. A combined one-way clutch and bearing construction adapted to operate between coaxial cylindrical races comprising a series of bearing rollers between the races, an annular cage sup-

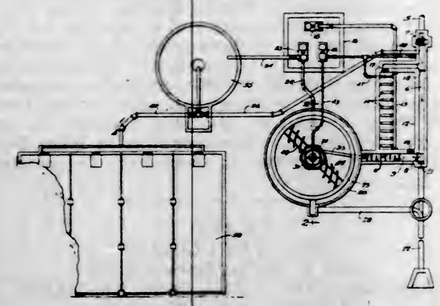
porting the rollers having an annular disc like portion fitting closely against the outer race, a series of tiltable grippers between the races, an annular cage supporting the grippers lying adjacent but rotatable relative to the bearing cage, the disc like portion serving as a lubricant dam to hold lubricant around the grippers.

2,404,222
DIFFRACTION GRATING TOOL
Ralph D. Doner, Auburn, Ala.
Application May 23, 1944, Serial No. 536,941
5 Claims. (Cl. 33—18)



1. In a tool of the character described: a horizontally pivoted arm; a chisel member mounted on said arm to engage the work; and means to apply a pulsating downward pressure of the chisel against the material being cut.

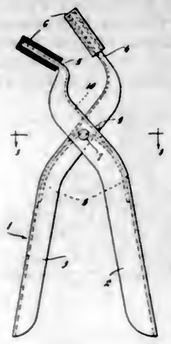
2,404,223
METHOD OF AND APPARATUS FOR TREATING SEWAGE
Augustus C. Durdin, III, Skokie, Ill., assignor of twenty-four per cent to Lewis H. Durdin, Franklin, Pa., and fifty-two per cent to Augustus C. Durdin, Jr.
Application March 2, 1942, Serial No. 432,929
19 Claims. (Cl. 210—8)



1. The method of treating sewage which comprises mixing incoming sewage with activated sludge maintaining the sewage and sludge mixed without the addition of air thereto a time sufficient to allow the sludge to react with the sewage, separating from the mixture a portion thereof containing the lighter flocs, aerating the separated portion, and utilizing the separated portion as the activated sludge to be mixed with incoming sewage.

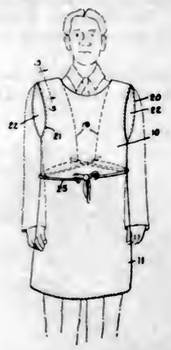
2,404,224
POT AND PAN LIFTER AND HOLDER
Joseph A. Fink, Englewood, N. J.
Application March 10, 1945, Serial No. 582,066
2 Claims. (Cl. 294—28)

1. A pan lifter comprising a pair of pincers having broad U-shaped jaws and a pair of resilient flat caps covering the gripping portions of said jaws and having rough surfaces at their gripping sides, each of said caps having a mouth which fits tightly around the gripping portion of one of said grasping jaws whereas the main portion of the interior of each cap is larger than



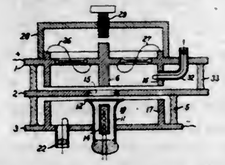
that portion of the grasping jaw which is covered by the cap, all substantially as set forth.

2,404,225
PROTECTIVE APRON
Samuel T. Green, Brooklyn, N. Y., assignor to Picker X-Ray Corporation, New York, N. Y., a corporation of New York
Application September 22, 1944, Serial No. 555,277
2 Claims. (Cl. 250—108)



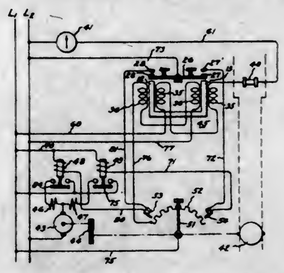
1. A sleeveless X-ray shield of generally apron form for use by X-ray operatives, including a single sheet of rubber-like material loaded with heavy material opaque to X-rays, said sheet being of generally rectangular shape with vertical side edges and of a size to completely shield the body vertically from the neckline to approximately the knees and horizontally outwardly to vertical lines beneath the arms, a textile fabric bag-like cover shaped to correspond with and enclosing said sheet, said sheet and cover having laterally spaced top portions one over each shoulder and each of substantially full shoulder width, and back wing members made of textile fabric having upper portions joined to the spaced shoulder portions of the cover along relatively long horizontal shoulder lines and lower portions joined to the vertical edges of the cover along the under-arm lines, the said back wing members having generally horizontal bottom edges and vertical edges which extend diagonally downwardly and converge from the neck ends of the spaced shoulder portions of the cover to the ends of said bottom edges, where said wings closely neighbor each other when the shield is in use, said lower portions being provided with connecting means and lying entirely beyond the area of the cover and sheet and being free to conform to and hug the body, whereby the heavy weight of the shield is distributed over the full width of both shoulders and a substantial area of the lower back.

2,404,226
HIGH-FREQUENCY DISCHARGE DEVICE
Anatole M. Gurewitsch, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 7, 1942, Serial No. 457,539
19 Claims. (Cl. 250—27.5)



1. A high frequency electronic discharge device comprising electrodes including an anode, a cathode and a grid, a plurality of metallic members spaced in parallel relationship and each being conductively connected to a different one of said electrodes, the outer members each comprising a metallic wall extending toward but not engaging the intermediate member and providing cavity resonators substantially bounded by metal, and insulating walls supporting said metallic members and sealing said device to form an evacuated enclosure for said metallic walls and for said electrodes.

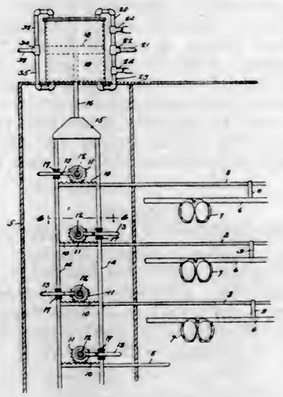
2,404,227
ELECTROMAGNETIC CONTROL APPARATUS
Chester I. Hall, Vischer's Ferry, N. Y., assignor to General Electric Company, a corporation of New York
Application January 8, 1943, Serial No. 471,739
18 Claims. (Cl. 236—78)



2. An electromagnetic reversing control apparatus including a reversely tilting magnetic member having a mid-control position between two reversing control positions, resilient means for biasing said member each way to said mid-position, a polarized magnetic structure having three poles straddling said magnetic member and having opposing differential windings for shifting the flux thereof to magnetically bias said member selectively to said reversing control positions upon corresponding variation in the relative energization of said windings, a temperature responsive resistor connected in series circuit with one of said windings for directly regulating the energization thereof, an adjustable resistor connected in series circuit with the other of said windings for directly regulating the energization thereof, and reversible temperature regulating means operated under the control of said member.

10. An electromagnetic control apparatus including a polarized three-pole magnetic structure having a pair of magnetically balanced like poles in alignment and a single opposite pole in central offset relation therewith, a statically balanced tilting magnetic member having control means operated thereby and having an axis between said poles for balancing the polarized magnetic pulls of said like poles on said member only in a predetermined position thereof, adjustable stop means for limiting the tilting of said member, and a pair of counteracting separately variable electromagnetic polarizing means, each differentially magnetizing said pair of like poles to control the tilting of said member.

2,404,228
HYDRAULIC EGG TURNING MECHANISM
Jerry F. Hamlin, Mill Valley, Calif.
Application December 27, 1943, Serial No. 515,742
1 Claim. (Cl. 74—110)

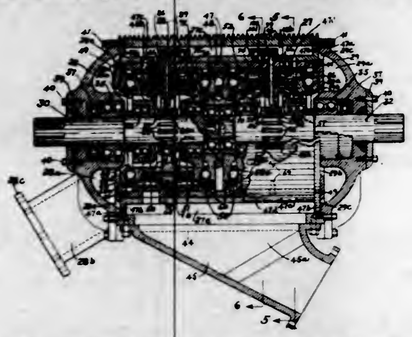


An egg turning device for battery incubators, comprising a plurality of horizontal reciprocating rods adapted to operate egg cradles, teeth formed on the upper edges of the rods adjacent to one of the respective ends thereof, spaced vertical rods, means for connecting the rods at their upper ends, gears meshing with the teeth of the horizontal reciprocating rods, pairs of spaced enlargements secured on the vertical rods, forked arms movable with the gears and adapted to straddle the vertical rods between the enlargements of each pair, adjacent forked arms being connected to opposite vertical rods, and said arms adapted to move the reciprocating rods in opposite directions.

2,404,229
VARIABLE-SPEED TRANSMISSION
Joseph O. Hamren, Minneapolis, Minn.
Application January 30, 1941, Serial No. 376,626
16 Claims. (Cl. 60—53)

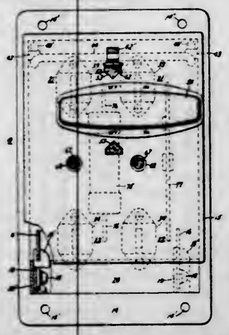
1. A transmission unit having in combination, a casing, two pairs of rotors in said casing each comprising a plurality of circumferentially spaced oscillating vanes, a pair of shafts journaled in said casing concentric with said rotors, a second casing within said casing and concentric with said rotors, means for supplying fluid under pressure to said second casing at circumferentially spaced points to drive one rotor of each pair in one direction, means for supplying fluid to

said second casing at circumferentially spaced points to drive the other rotor of each pair in the opposite direction and means in said casing for connecting one of said rotors of each pair to one of said shafts and for connecting the other rotor of each pair to the other of said shafts.



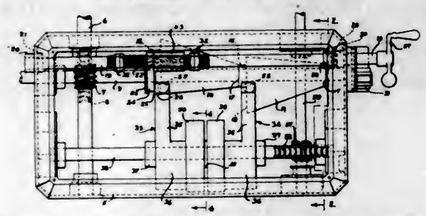
6. An automotive vehicle structure having in combination, a variable speed transmission unit comprising a casing, a pair of fluid driven rotors in said casing, a shaft journaled at its ends in said casing about which said rotors rotate, means for supplying fluid under pressure to said rotors to rotate them in opposite directions respectively and means within said casing for directly connecting said rotors alternately to said shaft.

2,404,230
DEAD-FRONT SAFETY SWITCH
Winton G. Harlow, Upper Darby, George A. Healis, Lansdowne, and Donald B. Lamb, Springfield, Pa., assignors to General Electric Company, a corporation of New York
Application November 23, 1943, Serial No. 511,388
14 Claims. (Cl. 200—114)



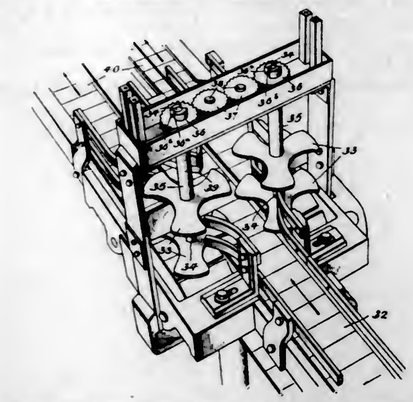
1. An electric switch including an enclosure, a hinged cover therefor, stationary contacts mounted within said enclosure and adapted to be connected to an associated electric circuit, an arcing barrier for each stationary contact constructed so as to prevent accidental engagement with said contacts so as effectively to provide substantially a dead front construction, a member carried by said cover in slidable relation therewith in a plane parallel with said cover, a fuse having blade terminals mounted on said member slidably movable therewith so as to provide a switch blade for completing the circuit between said contacts in said enclosure, and means for opening the circuit between said contacts in said enclosure by opening said cover to draw an arc between one of said blade terminals of said fuse and one of said stationary contacts.

2,404,231
VARIABLE-SPEED TRANSMISSION
Lyndus E. Harper, Kansas City, Mo., assignor to Omega Machine Company, Kansas City, Mo., a corporation of Missouri
Application August 26, 1943, Serial No. 500,082
5 Claims. (Cl. 74—124)



1. A variable speed transmission comprising a cam shaft, means for rotating said cam shaft, a longitudinally tapering cam thereon gradually varying in throw axially of said shaft, a follower, and a shaft parallel to said cam shaft on which said follower is mounted, said follower comprising an arm mounted to swing about the axis of said follower shaft, and a cam engaging member mounted to swing universally on said arm and slidably engaging the convexly curved surface of said cam with a line contact.

2,404,232
COMBINING AND SEPARATING DEVICE
Lawrence McLean Hunter, Toronto, Ontario, Canada
Application August 25, 1943, Serial No. 500,178
2 Claims. (Cl. 198—31)

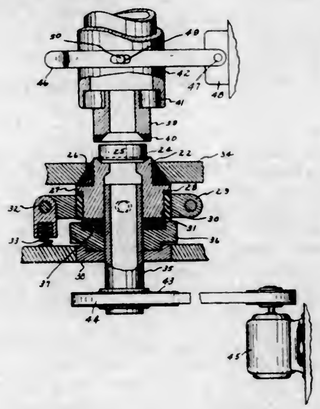


1. In a device of the character described, a supporting frame-work, a plurality of shafts rotary mounted thereon; object directing means associated with said shafts, a gear train connecting said shafts, the tops of one or more gears mounted to the shafts being formed with a V slot, and a pin engaging the shafts and the slots, whereby relative movement of the gear on the shaft is permitted and scuffing of bottles being handled, reduced or eliminated.

2,404,233
MECHANISM FOR ROTATING ARTICLES
Samuel C. Hurley, Jr., Danville, Ill.
Application September 23, 1944, Serial No. 555,472
1 Claim. (Cl. 214—1)

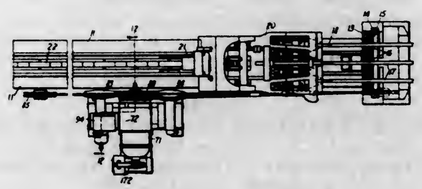
Mechanism for rotating articles comprising a nose piece containing resilient friction means

for holding an article in position, said nosepiece being rotatable by the rotation of the article being rotated, a rotatable clutch comprising a resilient friction means oppositely positioned from the nosepiece for also holding the article in position, bearing means to permit the clutch to rotate, a brake plate, resilient brake means positioned on the clutch adjacent to the brake plate, a rotatable spindle having a resilient friction lining associated therewith adjacent the clutch and



for engaging the clutch to rotate it, driving means for rotating the spindle, clutch and spindle, means for engaging the nosepiece with the article and simultaneously thrusting the rotatable clutch into engagement with the friction lining on the rotatable spindle thereby to rotate the clutch, and means for periodically lifting the clutch mechanism out of engagement with the lining on the spindle and into engagement with the brake plate to stop the rotation of the article without stopping the spindle.

2,404,234
DRAWING MACHINE
Wallace E. Kerr, Youngstown, Ohio
Application August 24, 1938, Serial No. 226,477
32 Claims. (Cl. 205—3)



1. In a drawing machine, the combination of a carriage having a member movable upon engagement with an element independent of said carriage, a stock engaging grip bit movably mounted on said carriage for movement into open and closed positions, a motion transmitting element connected with and moved by said first mentioned member, means to transmit motion from said element to said grip bit in a closing direction, and removable means connecting said element and said grip bit to transmit opening movement to said grip bit, said last mentioned means being removable without disturbing said first mentioned means.

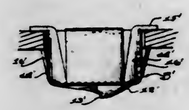
2,404,235
UNSATURATED ORGANIC COMPOUNDS
Morris S. Kharasch, Chicago, Ill., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application March 25, 1944, Serial No. 528,176
5 Claims. (Cl. 260—669)

1. The method of producing an organic compound having an alkylene linkage which comprises reacting with a vinyl halide of the formula:



in which Y is a halogen, R_1 is selected from the class consisting of hydrogen, lower alkyl radicals, and aromatic radicals, and R_2 and R_3 are selected from the class consisting of hydrogen and lower alkyl radicals but are both hydrogen when R_1 is aromatic, the reaction product of a metallic halide selected from the class which consists of the halides of cobalt, nickel, iron and chromium with a Grignard's agent having the formula RMgX in which X is a halogen and R is a radical having a carbon atom directly attached to the magnesium atom of the reagent and selected from the class which consists of aryl radicals and aryl-aliphatic radicals.

2,404,236
SHEET METAL FASTENING DEVICE
Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Original application September 1, 1944, Serial No. 552,257. Divided and this application June 23, 1945, Serial No. 601,254
3 Claims. (Cl. 85—36)

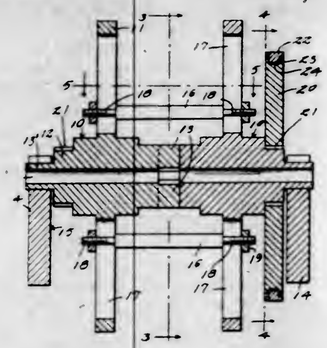


1. A fastener comprising a cup-shaped body of spring metal adapted to be inserted into an aperture in a supporting panel, an integral screw thread engaging portion deformed from the bottom wall of the body and spaced inwardly from the inner side of the supporting panel, said body including two pairs of opposed integral tongues extending in the same general direction from the bottom wall, outwardly bent flanges on one pair of tongues to engage the outer side of the supporting panel, the other pair of tongues being engageable with the walls of the panel aperture, and end portions on said last tongues extending inwardly toward each other for engagement with the threads of a screw.

2,404,237
SPOOL FOR WIRE-STRANDING MACHINES
Stephen Krizsan, Jr., Trenton, N. J.
Application May 10, 1944, Serial No. 534,943
4 Claims. (Cl. 242—118)

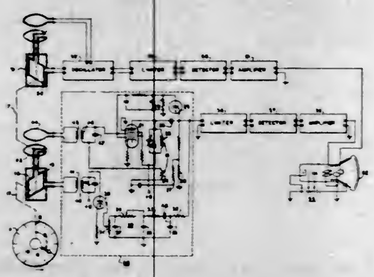
1. A structure of the class described comprising hubs, opposed projections on the hubs separably engaged with one another, said hubs having

integral discs, bars securing the discs together, and means clamping the bars to each disc for adjustment radially with respect to the discs, said



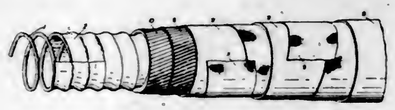
bars and clamping means dually functioning as a bundle support and for retaining the hubs in engagement.

2,404,238
POSITION-INDICATING SYSTEM
Bernard D. Loughlin, Bayside, and James F. Craib, Little Neck, N. Y., assignors, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application September 20, 1943, Serial No. 503,072
11 Claims. (Cl. 177—351)



1. A system for indicating the relative position of two relatively movable members comprising, an impedance-coupling means having relatively movable primary and secondary elements effective to vary the degree and the sense of the electrical coupling therebetween in accordance with variations in the relative position of said elements, means for mechanically coupling said primary element to one of said members, means for mechanically coupling said secondary element to the other of said members, means effective in the absence of said impedance-coupling means for generating oscillations of a given frequency much greater than the effective maximum frequency of motion between said two members, means for varying the frequency of said generated oscillations in either direction from said given frequency in accordance with the electrical coupling between the elements of said impedance-coupling means, and means for utilizing said generated oscillations to produce an indication of the relative position of said two members.

2,404,239
ELECTRIC CABLE
Hector Atherton Macdonald, Gravesend, England, assignor to W. T. Henley's Telegraph Works Company Limited, Dorking, Surrey, England, a British company
Application May 18, 1943, Serial No. 487,519
In Great Britain September 6, 1941
11 Claims. (Cl. 174—110)



1. In a tubular buoyancy element comprising a longitudinally flexible helix resistant to radical compression and a flexible waterproof covering enclosing said helix, means comprising a number of inflated hollow rubber bodies expanded within said covering and having peripheral walls with external surfaces thereon moulded to the internal surface of said covering, for dividing the interior of the element into a plurality of closed compartments.

6. A buoyant electric cable comprising an open helix resistant to radial compression, a flexible waterproof covering enclosing said helix, a flexible sheath of tough rubber comprising two component layers and enclosing the said covering, a conductor consisting of a number of helically extending wires disposed between said two component layers, and means, comprising a plurality of hollow rubber plugs expanded within said waterproof covering and having peripheral surfaces moulded to the internal surface thereof, for dividing the interior of the cable into a plurality of compartments.

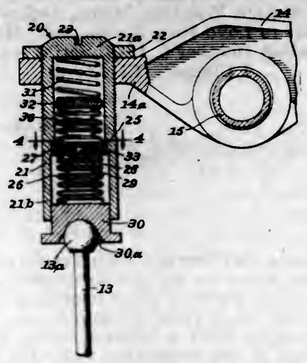
2,404,240
COMPOSITION FOR CONDITIONING THREAD
Robert D. MacLaurin, Lakewood, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application November 13, 1941, Serial No. 419,019
6 Claims. (Cl. 252—8.9)

1. A thread conditioning composition which comprises low viscosity mineral oil and sorbitan trioleate, said sorbitan trioleate being present in a minor proportion, by weight, to said mineral oil.

2,404,241
VALVE CLEARANCE ELIMINATING DEVICE
Charles W. MacMillan, Washington, D. C.
Application May 14, 1943, Serial No. 487,050
3 Claims. (Cl. 123—90)

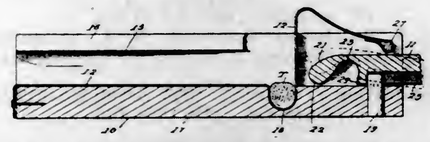
3. A clearance eliminating device comprising a housing, a partition within said housing rigid therewith, two expandable and hollow containers inclosed within said housing and mounted on opposite sides of said partition, one of said containers being a force transmitting member having one end supported on said partition and its other end being movable, the other container also having one end supported on said partition and its other end in contact with a spring tending to compress the latter said container, the complete assembly adapted to transmit operating force of a mechanism thru a hydraulic column and control of fluid within said containers, means of said control comprising a check valve in said partition for

relatively large flow of liquid in one direction between said containers and a fixed passage for rel-



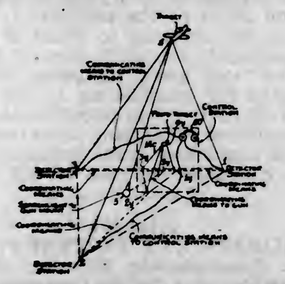
atively small flow of liquid in the opposite direction.

2,404,242
CIGARETTE ROLLING DEVICE
Lionel Guy Moss, Dunbar, W. Va.
Application March 13, 1945, Serial No. 582,510
5 Claims. (Cl. 131—51)



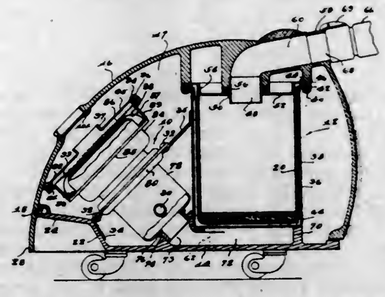
1. A cigarette roller having a base with a cross-groove therein, a slider movable along the base and having a cross-groove which is alined with the base cross-groove during an early part of such relative movement, and a flexible, essentially non-extensible apron fastened at its ends to the base and having a length greater than the distance between the ends of the base effective to form a bight between the base and slider and engaging the wall of the slider cross-groove during the relative movement.

2,404,243
COORDINATING APPARATUS
John J. Moynihan, Boston, Mass., assignor of one-half to Joseph B. Brennan, Cleveland, Ohio
Application February 7, 1942, Serial No. 429,897
3 Claims. (Cl. 89—41)



1. In apparatus of the character described the combination of a gun and a plurality of detection devices arranged at spaced points and capable of being directionally focused upon a target, a small scale model proto-terrain upon which are positioned, to scale, the location of the gun and said detection devices providing detector stations, a proto-target, a plurality of axially movable members connected at their opposite ends to the detector stations and gun location on said proto-terrain and to said proto-target, said members respectively being homologous to the beams of said detection devices and linear trajectory of said gun, and means for continuously coordinating the azimuth and elevation of said gun and detection devices with the azimuth and elevation of said members on said proto-terrain whereby the beams of said detection devices and trajectory of said gun at all times substantially coincide at a common point above the actual terrain corresponding to the location of said proto-target with respect to said proto-terrain.

2,404,244
SUCTION CLEANER
Joseph H. Nuffer, Toledo, Ohio, and Lynn H. Latta, Los Angeles, Calif., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application November 24, 1943, Serial No. 511,525
2 Claims. (Cl. 230—133)



1. In a suction cleaner, a housing having a blower outlet, a suction unit in said housing having a fan casing provided with a normal discharge aperture, a shroud providing a discharge chamber into which said aperture discharges, an outturned peripheral seating ledge on said shroud, a substantially flat valve disc providing the outer wall for said shroud and adapted to seat against said ledge, and resilient means interposed between said disc and ledge normally maintaining a spaced relation between said valve disc and said seating ledge, said disc having a blower discharge opening aligned with said blower outlet, whereby said suction unit normally discharges through said blower discharge opening and the space between said valve disc and said seating ledge, said blower outlet being adapted to receive a blower attachment coupling extended therethrough and into contact with said valve disc for moving said disc into sealing engagement with said ledge.

2,404,245
FASTENING DEVICE
Anders C. Olsen, Forest Hills, N. Y.
Application December 8, 1944, Serial No. 567,245
4 Claims. (Cl. 85—11)



1. A fastening device fabricated from a flat metal strip bent at one end to provide a head

portion and folded longitudinally to provide a shank portion lying in a plane at a right angle to the plane of the head portion, said shank portion comprising legs juxtaposed for a substantial distance along their length, said legs being connected together for a distance along the longitudinal fold and terminating in divergently-bent points whereby said legs are adapted to diverge when forced into fastening position.

2,404,246
BRUSH RIGGING
Edwin N. Olson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 24, 1943, Serial No. 515,469
9 Claims. (Cl. 171—324)



2. A brush rigging adapted to contact a rotatable current collector including a brush-mounting element with a pair of legs having a contact brush element supported on each leg, means including a spring element for biasing said contact brush elements toward each other, openings through the legs of said mounting element, and means including a supporting bracket member having inwardly extending fingers arranged through said openings in said legs of said mounting element for supporting said brush elements.

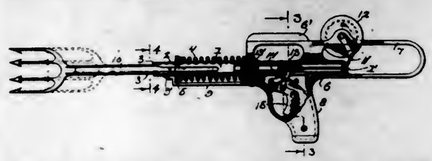
2,404,247
STRONG, MACHINABLE, HEAT-RESISTANT ALLOY
Earl R. Parker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 18, 1940, Serial No. 357,283
4 Claims. (Cl. 75—170)

1. A forgeable, readily machinable alloy containing about 50% to 70% of nickel, 15% to 25% of metal from the group consisting of tungsten and molybdenum, 0.5% to 5% titanium, 0.5% to 4% manganese, 0.1% to 0.5% selenium and the balance substantially all iron.

2,404,248
HEAT-RESISTANT ALLOY
Earl R. Parker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Original application September 18, 1940, Serial No. 357,283. Divided and this application February 28, 1942, Serial No. 432,799
5 Claims. (Cl. 75—170)

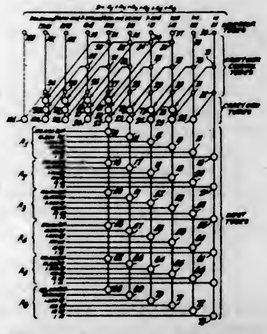
2. A forgeable, precipitation hardened alloy containing about 50 to 70% nickel, 15 to 25% molybdenum, 0.5 to 5% titanium, 0.5 to 4% manganese and the balance substantially all iron, a portion of said nickel content being replaceable by cobalt without materially changing the inherent characteristics of said nickel-molybdenum-titanium-manganese-iron alloy.

2,404,249
FISH SPEAR
Goral O. Potter, Waubun, Minn., assignor of one-half to Loyd Roy, Mahnomen, Minn.
Application October 6, 1944, Serial No. 557,417
1 Claim. (Cl. 43—6)



A harpoon gun comprising an open ended barrel having a slot in its discharge end terminating with a cam guide, a spear headed shaft adapted to fit into the bore of the gun barrel, the shaft being provided with a locking notch in its rear end portion, a pin projecting from the shaft engageable with the barrel slot, a coil spring carried by said barrel engageable with the shaft pin for compressing the spring, a reel mounted upon the barrel stock, a line carried by the reel connected to the rear end of the spear shaft, and a trigger controlled lock and release dog engageable with the said spear shaft notch.

2,404,250
COMPUTING SYSTEM
Jan A. Rajchman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 22, 1944, Serial No. 519,299
6 Claims. (Cl. 235—61)

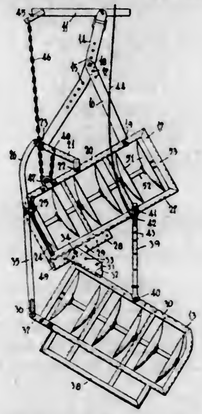


1. An adding circuit including a separate group of tubes for each digital position of the numbers to be added, means for applying to certain of said tubes control potentials representative of the digits of the numbers to be added, and means for applying to other of said tubes control potentials representative of digits to be transferred from lower to higher digital positions, means for establishing at the anodes of the tubes of each group a potential depending on the number of conducting tubes in that group, and means responsive to the potentials so established for indicating the sum of said numbers.

2,404,251
STABILIZATION OF TERPENE PRODUCT
Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 11, 1943, Serial No. 513,948
10 Claims. (Cl. 260—631.5)

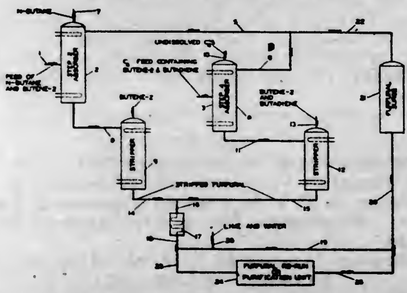
7. A process for improving unstable air-oxidized monocyclic terpenes which comprises subjecting the said air-oxidized terpenes to the action of a compound selected from the group consisting of manganese dioxide, manganese sulfate, manganese acetate, cuprous oxide, cupric oxide, copper acetate, copper sulfate, cuprous chloride, cupric chloride, copper oleate, copper linoleate and copper ricinoleate.

2,404,252
OFFSET DISK HARROW
Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation
Application January 8, 1942, Serial No. 426,081
9 Claims. (Cl. 55—83)



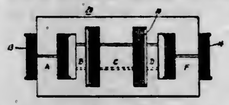
1. In combination with a tractor, a harrow comprising a frame, a transverse shaft journalled in the frame, a series of disks on the shaft, a draw-bar connected to the tractor, a link pivoted to the draw-bar and frame, an arm pivoted to the frame and to the draw-bar, a sheave on the front of the frame opposite the pivoted arm, and a chain around the sheave with its opposite end portions extending forwardly and attached to the pivoted arm and to the tractor at a point spaced laterally from the point of attachment of the drawbar to the tractor.

2,404,253
EXTRACTIVE DISTILLATION WITH FURFURAL
Virgil Scarth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 21, 1944, Serial No. 569,243
6 Claims. (Cl. 196—13)



1. In the process of separating unsaturated aliphatic hydrocarbons from a mixed hydrocarbon stream containing such unsaturates by extractive distillation wherein said mixed hydrocarbon stream is passed upward through an absorber tower in countercurrent to a descending stream of solvent composed of furfural containing dissolved water; a bottoms product consisting of furfural rich in unsaturated hydrocarbon is withdrawn from said absorber tower; said bottom product is introduced into a stripper column and there stripped of its unsaturated hydrocarbon content; a bottoms product consisting of stripped furfural is withdrawn from said stripper column and split into two streams; one of such resulting streams is passed to a re-run unit and there distilled to give a purified material consisting essentially of furfural and water dissolved therein; the purified furfural is combined with the other stream of stripped furfural and the resulting combined furfural stream is recycled to said absorber tower as solvent for the extractive distillation step; that improvement which consists of simultaneously inhibiting polymerization of furfural corrosion of equipment due to acids and corrosion of equipment due to factors other than acidity by introducing lime into that branch of the stripped furfural stream which bypasses the said re-run unit, at a point between the place where said stripped furfural stream is split and the place where the recycled stripped furfural is fed into said absorber tower; and controlling the amount of lime so introduced so that the acidity of the furfural in the extractive distillation system is maintained between 0.2% and 0.6% by weight, calculated as acetic acid.

2,404,254
ELECTRICAL APPARATUS
Thomas T. Short, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application February 2, 1943, Serial No. 474,424
3 Claims. (Cl. 315—228)

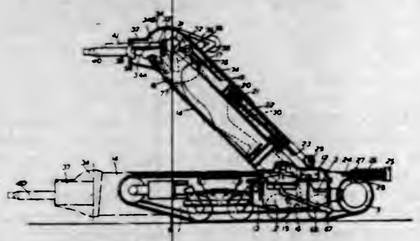


1. An electric apparatus for operating lead and lag discharge lamps including a five legged core, an autotransformer coil around a center leg and being adapted to be connected to a source of supply, a ballast reactor coil around one outside leg having one end adapted to be connected to the lag lamp, another ballast reactor coil around another outside leg having one end adapted to be connected to a lead lamp, the other ends of said ballast reactor coils being connected to said transformer, the size of the legs and the number and direction of turns being so adjusted that the arithmetic sum of flux through the outside legs shall equal the flux in the center leg during normal operation, and with the flux flowing through the fourth and fifth legs being the vector difference between the flux in the center leg and in the outside legs.

2,404,255
RESINATE
Harold M. Spurlin, Marshallton, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 16, 1943, Serial No. 498,877
15 Claims. (Cl. 260—100)

1. As a product, an aluminum dialkoxide monoresinate selected from the group consisting of aluminum diisopropoxide monoresinate and aluminum dibutoxide monoresinate.

2,404,256
MECHANICALLY PROPELLED VEHICLE
Ernest Thomas James Tapp, Fleet, England
Application February 16, 1944, Serial No. 522,640
In Great Britain August 4, 1937
10 Claims. (Cl. 89—36)



1. A mechanically propelled armoured vehicle having in combination, a carriage, a power unit for propelling the carriage, an elevatable compartment having spaced rearwardly extending hollow limbs at one end, transversely disposed tubular trunnions on opposite sides of the carriage, each of said limbs being pivotally connected to an adjacent trunnion and communicating therewith to provide a passage, and means communicating one of the tubular trunnions with the power unit for introducing air into the power unit.

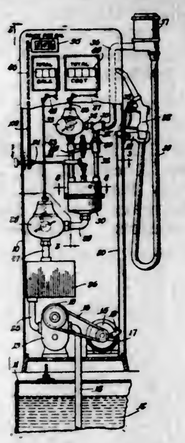
2,404,257
ROLLABLE WINDOW SCREEN
Harry W. Thomas, Miami Beach, Fla., assignor to Irving Rossi, New York, N. Y., as trustee
Original application March 16, 1940, Serial No. 324,395. Divided and this application April 4, 1944, Serial No. 529,432
3 Claims. (Cl. 160—133)



1. A rollable sheet for window openings, said sheet being made of transparent synthetic thermally workable material and being mounted on a roller, and windable on and off said roller, said sheet comprising a series of slats of said material, laminated together, the joints between the slats in different laminations being staggered with respect to each other.

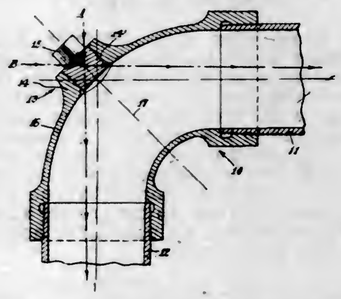
2,404,258
LIQUID DISPENSING APPARATUS
Richard R. Trexler, Evanston, Ill.
Application December 9, 1942, Serial No. 468,363
12 Claims. (Cl. 222—28)

1. Fluid dispensing apparatus comprising a dispensing line adapted to be connected to a source of fluid supply, said dispensing line terminating in a dispensing outlet, metering means for metering a portion of the fluid flow within the dispensing line, a cost register connected to the meter for registering the cost of the fluid dispensed, and fluid engaged means calibrated in accordance with the unit cost of the fluid dispensed per unit of volume for controlling said metering means and thereby the cost register, said calibrated means being variable in accordance with unit cost



while the displacement of the meter remains unchanged.

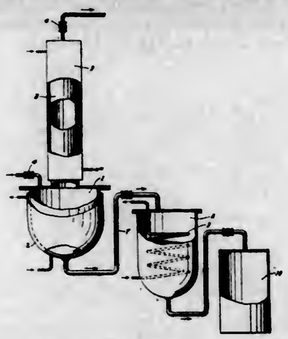
2,404,259
PIPE FITTING
Frederick J. Veitch, Flushing, N. Y.
Application November 19, 1943, Serial No. 510,856
1 Claim. (Cl. 285—211)



A waste pipe fitting having a uniform bore of the same diameter as the diameter of the connected pipes, and a cleanout opening in the heel thereof, the diameter of the said opening being substantially less than the diameter of said fitting, the said opening being screw-threaded, and a plug having mating threads, screwed into said opening, with the inner end thereof substantially flush with the inner wall of the fitting, whereby the inner wall is maintained free from objectionable projections or pockets the said fitting being for use solely as a pipe connection means.

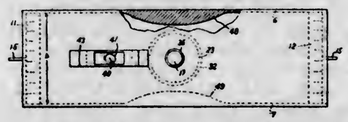
2,404,260
METHOD OF TREATING SPENT ACID
John Cornelius Vyverberg, Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 16, 1942, Serial No. 427,019
5 Claims. (Cl. 23—161)

3. The process of purifying a spent nitration acid substantially free from dehydrating agent but contaminated with nitrated material and having a nitric acid content of over 50%, which process comprises maintaining said acid at a temperature between 115 and 125° C., causing said acid to boil under refluxing conditions, and there-



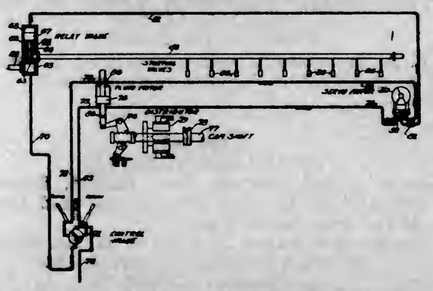
by effecting the decomposition of the greater part of the nitrated impurity present.

2,404,261
ULTRA HIGH FREQUENCY SYSTEM
John R. Whinnery, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 31, 1942, Serial No. 464,037
15 Claims. (Cl. 315—39)



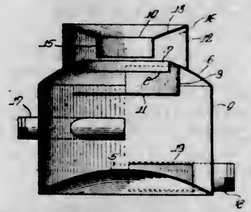
1. A space resonant system comprising a section of a dielectric wave guide of the hollow-pipe type including conductive defining walls, said section being dimensioned to support electromagnetic waves of predetermined frequency, an electric discharge device comprising a plurality of enclosed electrodes connected to oppositely disposed walls of said guide and being positioned substantially transverse to the longitudinal axis of said section and enclosing structure for said electrodes, and means for restricting a transverse dimension of said guide within the vicinity of said device to compensate for the capacitance effect of said discharge device in order that the electromagnetic wave of said predetermined frequency is substantially unaffected by the presence of said discharge device.

2,404,262
SERVOMOTOR AND CONTROL
Joseph E. Whitfield, Hamilton, Ohio
Application September 27, 1943, Serial No. 503,955
14 Claims. (Cl. 60—16)



7. In a fluid circuit the combination of a source of fluid under pressure, a manual control valve connected thereto, a double action fluid motor, a double action fluid servomotor, a single action fluid motor, a pair of fluid control lines in two sections connecting the associated sides of the manual control valve, the double action fluid motor and the double action fluid servo-motor in the order named, a third control line connecting the single action fluid motor with the double action fluid servomotor, the manual control valve being arranged to selectively connect the source of fluid under pressure with one of said pair of control lines, and means to prevent the operation of the motors in the sequence named until the preceding motor has functioned.

2,404,263
SEPARATOR FOR BOILER BLOWOFF PRODUCTS
Lyndon F. Wilson and Everett A. Preston, Chicago, Ill., assignors to Wilson Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application December 18, 1944, Serial No. 568,663
3 Claims. (Cl. 183—83)

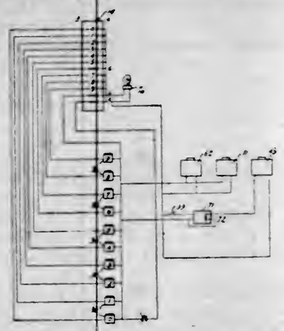


1. A separator for separating the products blown off from a steam boiler, comprising a cylindrical shell having a closed bottom wall and a top wall provided with a large centrally disposed steam outlet opening defined by an annular depending lip, a thimble rising from said top wall, consisting of an upright cylinder, a top therefor having a central discharge opening of smaller area than said underlying shell outlet opening and a cylindrical sleeve depending from said thimble opening into proximity to the plane of the upper edge of said outlet opening, means for delivering blown off products tangentially into said shell, and means for receiving and discharging from said shell the separated liquid products, said means including a discharge pipe leading from the lower portion of said shell and a receiving chamber communicating tangentially with the interior of the shell and with said discharge pipe, said chamber being rectangular and of greater cross-sectional area than said discharge pipe.

2,404,264
POSTING MACHINE
Carles Wittenmyer, Mount Clemens, Mich.
Application January 27, 1945, Serial No. 574,966
1 Claim. (Cl. 197—1)

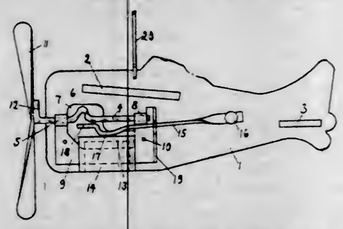
In a posting machine having a plurality of manually controlled key bars, means for receiving an account card inserted therein, said card having a control designation and an account designation, means for reading said account designation of said card, a plurality of means for blocking said key bars, means for moving all of said blocking means into blocking position, means for moving all of said blocking means out of blocking position, means controlled by the control designation of said card, upon insertion of said card into said receiving means, for actuating said means for moving all of said blocking means into blocking position, means for releasing individual ones of said blocking means and thus for releasing in-

dividual ones of said key bars, means controlled by said reading means, upon reading said account designation of said card, for selecting and actuating the particular one of said releasing means that corresponds to said account designation and thereby releasing the corresponding one of said key bars, means for advancing the card, and



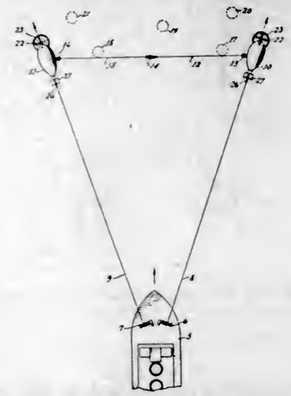
means responsive to actuation of the released key bar for actuating said advancing means to advance the control designation of said card out of cooperative relation with the means controlled thereby, whereupon the blocking means is freed to be moved out of blocking position by said means for moving all of said blocking means out of blocking position.

2,404,265
NOISE-MAKING AIRPLANE TOY
Harry Zimmerman, New York, N. Y.
Application December 2, 1944, Serial No. 566,299
2 Claims. (Cl. 46—52)



1. A toy comprising a body of sheet material having an outline simulating that of the fuselage of an airplane, the body having an opening in its forward portion, a plate of sheet metal mounted against a side face of said body under the opening and having upstanding arms extending along front and rear ends of the opening and provided with bearings, a drum carried by said plate and projecting therefrom laterally of the body, a flange projecting laterally from the rear end of said plate along the rear arm thereof, a strip extending longitudinally of said body and through an opening in said flange and having its rear end secured to the body and its forward portion free and bent to form a depending portion disposed over the drum, a shaft rotatably mounted through said bearings and extending along a side of the body with its front end projecting from the body and carrying a propeller, and a portion of the shaft opposite the opening in the body being bent to form an arm moving through the opening in the body as the shaft rotates and intermittently engaging under the front end of said strip to vibrate the strip vertically and cause its depending portion to have noise-producing contact with the drum.

2,404,266
MINE DETECTION DEVICE
Michael Henry Loughnane, Little Falls, N. J.
Application June 18, 1943, Serial No. 491,338
4 Claims. (Cl. 177—311)



1. A mine detection device for ships comprising a plurality of feelers, said feelers being electrically driven and controlled and operated ahead of the ship to be protected; electrically operated rudder means controlling said feelers; insulated, multiconductor cables connecting said feelers to said ship; a pair of bare cables, mechanically connected together but insulated from each other at their connected ends as well as from the body of said feelers, said bare cables tying said feelers together mechanically, and automatic detection means comprising a balanced bridge circuit, of which said bare cables form one half, whereby the proximity of mines or other metallic objects may be indicated.

2,404,267
METHACRYLIC ESTERS AND COPOLYMERS THEREOF
Carl E. Barnes, Acton, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
No Drawing. Application February 20, 1942, Serial No. 431,732
1 Claim. (Cl. 260—486)

Alpha (o-chlorophenyl) ethyl methacrylate.

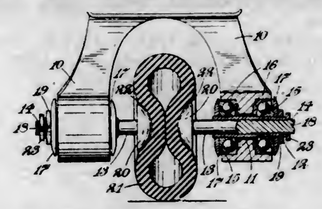
2,404,268
METHACRYLIC ESTERS AND COPOLYMERS THEREOF
Carl E. Barnes, Belvidere, N. J., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
No Drawing. Application January 10, 1944, Serial No. 517,701
5 Claims. (Cl. 260—83)

3. A transparent resin comprising a polymer of a cyclohexylcyclohexyl methacrylate.

2,404,269
WHEEL FOR VEHICLES
George Alfred Bennett, New Barnet, England; Hilda Mary Bennett executrix of said George Alfred Bennett, deceased
Application March 13, 1945, Serial No. 582,535
In Great Britain February 2, 1944
13 Claims. (Cl. 301—1)

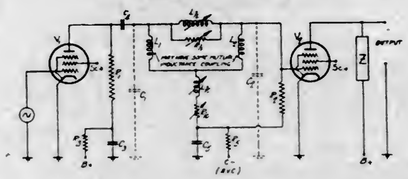
1. A wheel for a vehicle, comprising the combination with a support of two heads mounted

on the support to rotate about a common axis and to face one another with a space between them, an imperforate, and resilient tyre of which the exterior is a surface of revolution about an axis



and which is mounted between the heads with its axis coaxial with the common axis of the heads, and means for adjusting one, or each, head axially towards the other to compress the tyre between them.

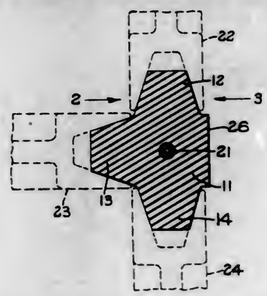
2,404,270
BAND PASS WAVE FILTER
William E. Bradley, Northampton, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application July 24, 1942, Serial No. 452,229
6 Claims. (Cl. 178—44)



1. A band pass coupling network comprising: a primary circuit including a primary winding and a primary tuning capacitance; a secondary circuit including a secondary winding and a secondary tuning capacitance; and an impedance coupling element connected in a circuit which is common to both said windings, said impedance coupling element having an adjustable imaginary component; an admittance coupling element connected between a high potential point on said primary winding and a high potential point on said secondary winding, said admittance coupling element having an adjustable imaginary component; said coupling elements being characterized in that they are non-resonant, and of such magnitude that an over-coupled condition is effected between said primary and secondary circuits, the degree of over-coupling being such that a double-peaked frequency-response characteristic is achieved; one of said coupling elements including a real component, the magnitude of which determines the height of one of said peaks without substantial effect upon the height of the other of said peaks.

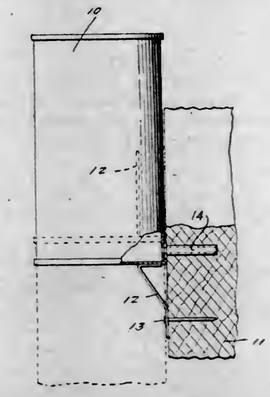
2,404,271
V-TYPE BELT
Eugene E. Brunner, York, Pa., assignor to Read Machinery Co. Inc., York, Pa., a corporation of Pennsylvania
Application July 12, 1943, Serial No. 494,290
3 Claims. (Cl. 74—234)

1. A V belt of the type described comprising a plurality of radially extending V-shaped ribs formed lengthwise thereof and coextensive the length thereof, all of said ribs being substantially similar in form and size and being arranged at an angle of approximately 90° with respect to each other, each of said ribs having three walls, including two inclined side walls and an outer end wall, the adjacent side walls of adjacent ribs forming a reentrant angle, the two side



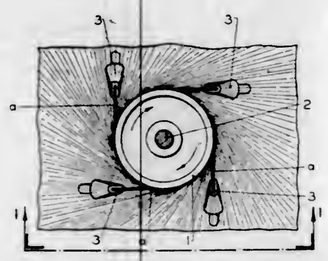
walls of each rib being inclined at substantially similar angles with respect to the radial center line of the rib and the outer end wall of each rib being arranged substantially at right angles to the radial center line of the rib.

2,404,272
TERMITE CONTROL DEVICE
Troy F. Childers, Joplin, Mo.
Application November 27, 1943, Serial No. 511,973
2 Claims. (Cl. 21—63)



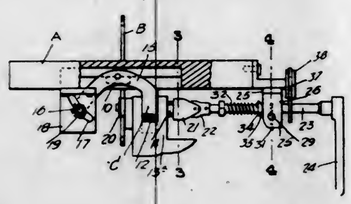
1. A gravity actuated reversible device in combination with an object of wood for preserving the wood from the destructive action of termites, said device being adapted respectively for inoperative and operative positions and comprising a closed container for a liquid insecticide, a tube with a flange attached to the wall of a permanently open outlet near one end of the container, said tube extending into a hole in said object of wood and arranged to cooperate with the wall structure of said hole to permit said container to be swung about the axis of the tube from one position to another, a knee-shaped bracket fastened on said end of the container, said bracket having a bend directed towards the center of the container and its free shank bent back against the adjacent face of said object with the container in upright position and means securely attaching said shank against the wood object thereby supporting the container firmly in upright, operating position on the wood object.

2,404,273
METHOD OF AND APPARATUS FOR SPRAYING
Niels C. Christensen, Salt Lake City, Utah
Application July 24, 1944, Serial No. 546,285
4 Claims. (Cl. 299—63)



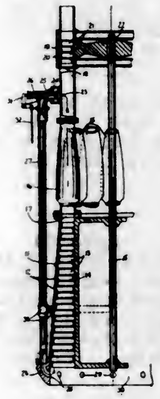
1. The method of making a spray from liquids or fluid mixtures of finely divided solids and liquids which consists in projecting said liquid or mixture upon the surface of a rotating cylinder in the form of a sheet approximately tangent to the surface of said cylinder and rotating said cylinder about its axis at such speed that liquid or fluid supplied to said surface is thrown from the surface of said cylinder as a rain or spray, said sheet of liquid or fluid mixture being projected in opposite direction to the motion of the cylinder in the zone of contact.

2,404,274
SPECIAL TOOL
Stanley J. A. Christie, Oshawa, Ontario, Canada
Application March 31, 1944, Serial No. 528,821
2 Claims. (Cl. 143—132)



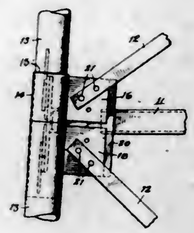
1. In a machine employing a table top mounted on its frame to tilt in all directions and including a screw securing means adjacent the tilting point for securing said top in adjusted position, an adjusting member for loosening or tightening said securing means including a shank, a head pivotally connected to said shank at one end to swing in all directions and engageable with said securing means, the opposite ends of said shank extending adjacent to one edge of said table top, a bifurcated bracket mounted adjacent the edge of said table top having parallel arms spaced apart from one another, said shank being receivable between said arms and swingably movable therebetwen, a detachable pin member traversing said arms and said space therebetween to retain said shank in said bracket, said pin being removable to detach said shank, and operating means connected with said shank, said pin retaining said operating means in accessible position adjacent the edge of said table top regardless of the angular position of the latter.

2,404,275
INTERNAL-COMBUSTION TURBINE PLANT
Thomas Clark and William Henry Lindsey, Coventry, England, assignors to Armstrong Siddeley Motors Limited, Park Side, Coventry, England
Application June 28, 1943, Serial No. 492,614
In Great Britain October 2, 1942
3 Claims. (Cl. 60—41)



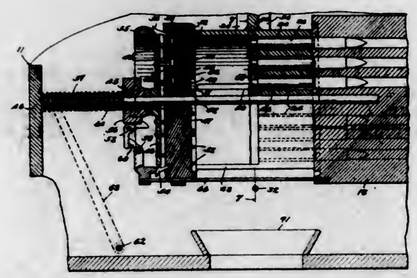
1. An internal-combustion turbine plant including an axial-flow-type of rotary compressor and a combustion chamber connected to the outlet end of the compressor, in combination with a passage leading from the combustion chamber to the inlet end of the compressor, and controllable valve means which when opened allows about 2% of the burning mixture to be passed from the combustion chamber to the compressor inlet.

2,404,276
TOWER CONSTRUCTION
Harold Cohen, Elizabeth, N. J.
Application July 28, 1944, Serial No. 547,065
2 Claims. (Cl. 189—19)



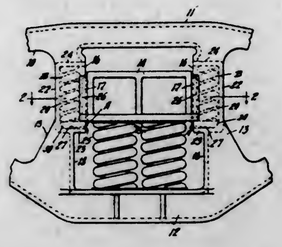
2. In a tower, spaced legs each composed of tubular members joined in pairs in telescoping relation, each joint between the leg members including a gusset plate secured adjacent the end of each leg member and a connecting plate extending across the joint line between the leg members and secured to a pair of adjacent gusset plates, a horizontally positioned brace member directly secured to each pair of connecting plates on two opposed legs, and diagonally positioned brace members each directly secured to a pair of gusset plates of two opposed legs.

2,404,277
MULTIBARREL MACHINE GUN
Benjamin Frank Coleman, Prentiss, Miss.
Application October 11, 1943, Serial No. 505,831
2 Claims. (Cl. 89—1)



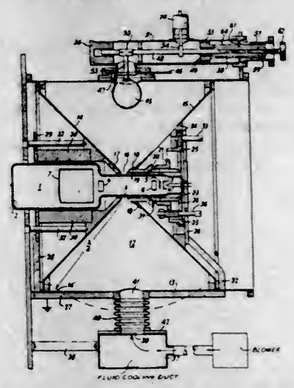
1. In a machine gun, a barrel having a plurality of longitudinal bores, a sliding breech block mounted at one end of the gun barrel, a vertically movable magazine having a plurality of shell receiving bores, operating between the barrel and breech block, said magazine being constructed and arranged to move to a position above the gun barrel and adapted to deliver shells to be fired to positions opposite to the bores of the barrel, when lowered, plungers slidably mounted within the magazine and adapted to force shells from the magazine into the bores of the gun barrel, firing pins operating in the breech block, and means operating the firing pins whereby said shells are fired simultaneously.

2,404,278
RAILWAY CAR TRUCK
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 26, 1944, Serial No. 537,285
4 Claims. (Cl. 105—197)



1. In a railway car truck, the combination with truck side frame members, a truck bolster, and springs supporting said bolster on the side frame members, said side frame members being provided with bolster guides; of a pocket in one of said side frame members at the bolster guides, said pocket having a bottom wall; a rockable friction member in said pocket engaging the bolster, said friction member having a laterally projecting, platelike arm at its lower end provided with a rounded bearing projection fulcrumed on the bottom wall of said pocket; and additional springs reacting between the side frame and arm of said friction member to rock the latter against the bolster.

2,404,279
ULTRA SHORT WAVE SYSTEM
Orville E. Dow, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 7, 1941, Serial No. 405,737
20 Claims. (Cl. 315—5)

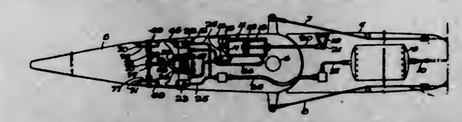


1. A hollow resonator having apertures in both sides thereof forming a gap, an electron discharge device having an envelope extending across said gap, a cathode and a collector electrode in said envelope at opposite sides of said gap for causing an electron stream to traverse said gap, spaced adjustable magnetic elements adjacent said sides of said resonator and having a magnetic gap registering with the gap of said resonator for providing a magnetic lens at said resonator gap and for varying the width of the resonator gap, and movable means for varying the distance between said spaced elements.

2,404,280
PRODUCTION OF UNSATURATED NITRILES
Harris A. Dutcher, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 9, 1943, Serial No. 513,538
9 Claims. (Cl. 260—464)

9. The process of making an unsaturated nitrile which comprises contacting the vapors of an aliphatic saturated aldehyde oxime over a dehydrating-dehydrogenating catalyst composed of aluminum oxide and a minor proportion of a material selected from the group consisting of the oxides of chromium, molybdenum, vanadium and tungsten at a temperature within the range of 700 to 1100° F.

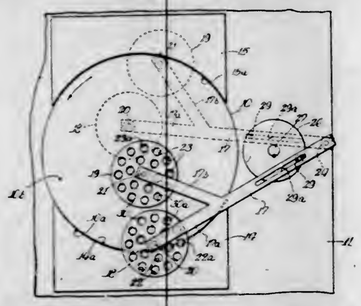
2,404,281
FLUID PRESSURE CONTROL MECHANISM
Wilfred A. Eaton, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application May 27, 1944, Serial No. 537,709
15 Claims. (Cl. 114—144)



1. In a control mechanism for controlling the direction of movement in a fluid medium of a body having a rudder movably mounted thereon and means for moving the rudder, additional

means for effecting power operation of said rudder including a power actuator for moving the rudder, and means responsive jointly to the impact pressure of the fluid medium on the rudder and to the power supplied to the actuator for controlling the supply of power to said actuator.

2,404,282
APPARATUS FOR MAKING PIEZOELECTRIC CRYSTALS
Hal F. Fruth, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 24, 1944, Serial No. 532,430
3 Claims. (Cl. 51—124)



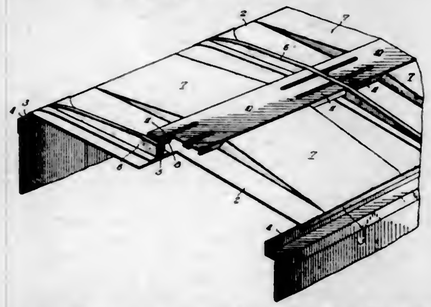
3. Grinding apparatus comprising a circular abrading plate rotatable about its center and having a flat upper abrading surface, a stationary member having a top surface flush with the upper surface of said plate and having an edge closely adjacent at least a portion of the periphery of said plate, a rotatable work holder for holding a work piece in a position offset with respect to the axis of rotation of said work holder and in contact with said abrading surface, means supporting said holder for free rotation about its axis of rotation, and means for so moving said supporting means that said work holder is moved transversely back and forth across said abrading surface and overlies the upper surface of said plate, whereby engagement of the work piece with said abrading surface and the upper surface of said plate rotates said work holder relative to said supporting means and thus changes the line of cut across said work piece.

2,404,283
ELECTRODE FOR DIATHERMY TREATMENTS
Carl K. Gieringer, Cincinnati, Ohio, assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio
Application January 17, 1942, Serial No. 427,101
3 Claims. (Cl. 128—413)



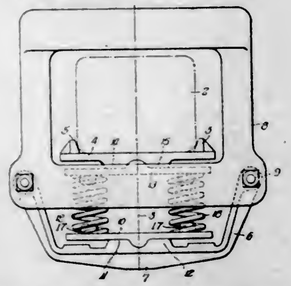
1. An electrode for therapeutic treatments comprising housing members having cavities therein and being hinged together and being constructed of insulating material, portions of an inductive electrode contained respectively in each leaf in the form of coils, and an electrical interconnection between the respective electrode portions contained within said housings, whereby the respective electrode portions are connected in series with one another.

2,404,284
RAILWAY CAR ROOF WALK
Garth G. Gilpin, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 16, 1943, Serial No. 491,255
8 Claims. (Cl. 105—457)



1. A walk for a car roof comprising flat topped raised panels with horizontal central portions alternating with depressed channels and upstanding seam constructions between the panels; said walk comprising a plurality of aligned members forming a continuous walk substantially between opposite ends of the car, each member extending between and secured to adjacent seam constructions and comprising a flat unflanged central part extending across and resting upon the horizontal portion of a panel, and opposite end parts each with depending marginal flanges spanning a channel and extending from a side of said panel to the adjacent seam construction, and a downwardly extending longitudinal rib between said marginal flanges to reinforce said end part and means secured to said seam constructions for supporting the ends of said members.

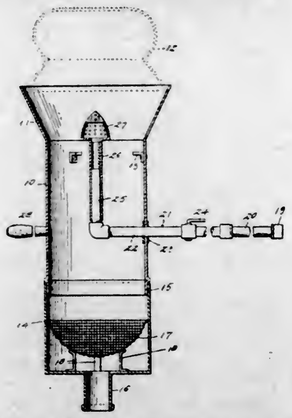
2,404,285
POSITIONING AND SUPPORTING DEVICE FOR CAR COUPLERS
Garth G. Gilpin, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application November 12, 1943, Serial No. 510,056
14 Claims. (Cl. 213—61)



9. A cushioning coupler supporting and positioning device for a railway car coupler movable laterally and vertically of a car in substantially

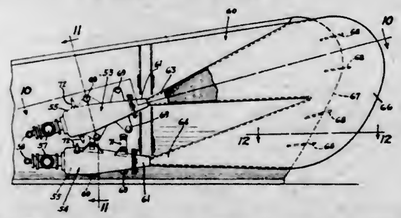
horizontal planes, which car is provided with a part having a portion below the coupler; said device comprising spaced springs adapted to resiliently support the coupler, and means including a spring seat mountable upon said portion to support said springs upon said portion, at spaced points between said springs, when the device is applied to a car so that said springs are laterally distorted upon a predetermined lateral movement of the coupler within coupling range, thus providing a restoring force in the springs to maintain the coupler within normal coupling range when free to do so, and further lateral movement of the coupler will cause the support to rock upon one of said spaced points without further distortion of the springs.

2,404,286
CUSPIDOR CLEANER
Bert Graham, Tacoma, Wash.; Pearl L. Graham administratrix of said Bert Graham, deceased
Application May 6, 1943, Serial No. 485,921
1 Claim. (Cl. 134—167)



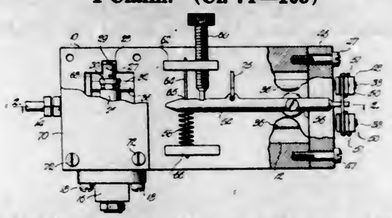
A cleaning apparatus for cuspidors or the like comprising a casing to support a cuspidor, spray means mounted by the casing for the cuspidor, said casing having a separable basal section, said section having a discharge outlet, and a collecting screen in the basal section across said outlet, said casing having an upper flared portion to support a cuspidor of one size, and means below said portion to support a cuspidor of a different size, said spray means being adjustable according to the position of a supported cuspidor.

2,404,287
APPARATUS FOR REMOVING SNOW AND THE LIKE
Edward R. Greer, Wayzata, Minn.
Application February 16, 1944, Serial No. 522,563
29 Claims. (Cl. 37—42)



29. The combination with a snow-removing apparatus including a snow-engaging member, of a combustion-type jet propulsion burner attached to said member and positioned thereon for ejecting and disbursing snow discharging from the member.

2,404,288
ACTUATING MEANS
Elmer E. Harper, Monrovia, Calif.; Esther Pardee Harper, executrix of said Elmer E. Harper, deceased
Application February 9, 1944, Serial No. 521,597
1 Claim. (Cl. 74—105)

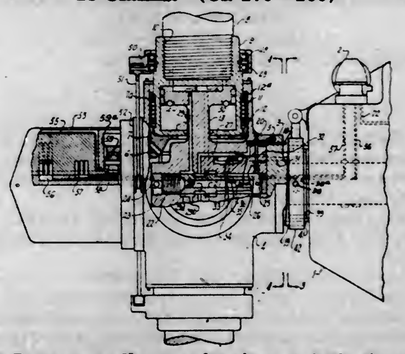


Actuating means of the character described comprising, a movable element, an operating member, and torque transmission means comprising a plurality of torque assemblies in parallel relation and each comprising a torque tube and shaft rod enclosed thereby and connected at corresponding ends and also operatively engaged with said movable element for jointly actuating the same, the other ends of the tube and rod of each of said assemblies being respectively anchored in fixed position and connected with said operating member.

2,404,289
DETERGENT COMPOSITION
William B. Hicks and Donald J. Saunders, Syracuse, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application March 28, 1942, Serial No. 436,722
2 Claims. (Cl. 252—138)

1. A detergent composition comprising (by weight) 40 to 50 parts sodium carbonate, 25 to 33 parts tetrasodium pyrophosphate, 2 to 7 parts trisodium phosphate, 2 to 7 parts sodium metasilicate, and 1 to 3 parts of a water-soluble, solid organic sulfonate detergent.

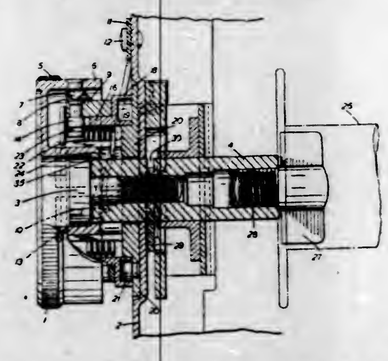
2,404,290
VARIABLE DIAMETER AND VARIABLE PITCH PROPELLER
Walter S. Hoover, Montreal, Quebec, Canada
Application March 14, 1941, Serial No. 383,389
13 Claims. (Cl. 170—160)



1. In a propeller mechanism, a hub structure, a plurality of propeller blades mounted for radial

and angular movement in said hub, an actuator for moving the blades radially of the hub to vary the propeller diameter, an actuator for subjecting the blades to angular movement about their longitudinal axis independently of said blade moving means, and control means for coordinating said actuators to be simultaneously operable.

2,404,291
ROLL-FILM WINDING MECHANISM
Douglas Gordon Hunter, London, England, assignor to Barnet Ensign Limited
Application April 12, 1944, Serial No. 530,607
In Great Britain May 4, 1943
9 Claims. (Cl. 242—71)



1. A film-winding mechanism for a roll-film photographic camera comprising in combination, a film spool stem journalled within the camera body, a winding knob in driving connection with said stem and protruding from the camera body, a stop member movably mounted on the camera body, a spring connected to said stop member for biasing same to a normal position, a clutch operatively connecting said winding knob to said stop member, a fixed stop coacting with said stop member for limiting the rotation of said winding knob and means permitting manual disengagement of said clutch thereby enabling the user to disconnect said stop member from said winding knob.

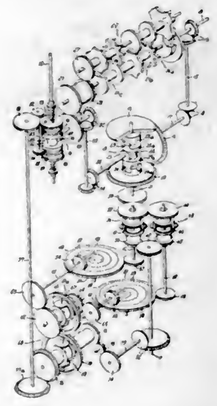
2,404,292
METHACRYLIC ESTER AND COPOLYMERS THEREOF
Mark Hyman, Jr., Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
No Drawing. Application March 3, 1943, Serial No. 477,851
1 Claim. (Cl. 260—486)

p-Methoxy benzyl methacrylate.

2,404,293
REGENERATION OF WASTE RUBBER
Alexander Johnston, Edinburgh 3, Scotland, assignor to The North British Rubber Company Limited, Edinburgh, Scotland
No Drawing. Application November 12, 1942, Serial No. 465,400. In Great Britain January 30, 1942
5 Claims. (Cl. 260—720)

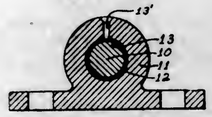
1. In the reclamation of rubber from vulcanized rubber waste containing fibrous carbonizable materials, the process which comprises heating pieces of such a rubber waste in an atmosphere of flue gases at a pressure not substantially exceeding atmospheric pressure and at a temperature varying from about 450° to 500° F. for a time varying from about 1 to 2 hours sufficient to carbonize the fibrous material while softening the rubber to the plastic stage and agitating the rubber pieces during the heating.

2,404,294
INTEGRATOR
William B. Jordan, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application September 18, 1944, Serial No. 554,661
4 Claims. (Cl. 235—61)



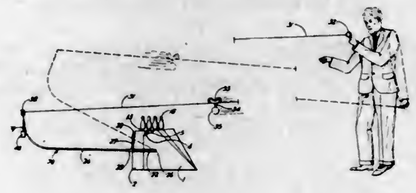
1. An integrator comprising variable of integration input means, integrand input means, reversing mechanism operable in accordance with the operation of said variable of integration input means for periodically reversing the direction of the input, means for multiplying the output of said reversing mechanism by the input of said integrand input means, and means for periodically reversing the direction of the output of said multiplying means simultaneously with the reversals of said first reversing mechanism.

2,404,295
BEARING
James D. Klinger, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 22, 1943, Serial No. 511,281
5 Claims. (Cl. 308—237)



1. An assembly including relatively movable metal parts having surface portions in rubbing contacting relation, and a coating on said surface portion of one of said parts adapted to mate readily with said surface portion of the other part during run-in operation of said assembly comprising a film-like layer having a metal content consisting substantially entirely of selenium and having bearing properties.

2,404,296
BOWLING GAME
Walter W. Kottas, New Kensington, Pa.
Application August 4, 1945, Serial No. 608,860
10 Claims. (Cl. 273—40)



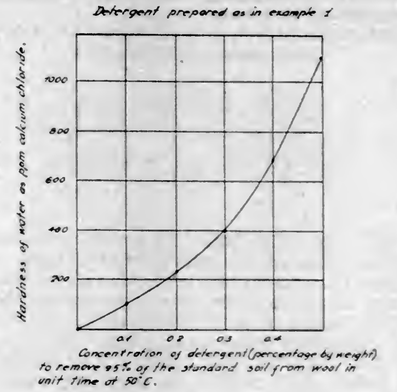
1. A bowling game comprising a base, a rack, means pivotally connecting the rack to the base on a horizontal axis to permit the rack to be tilted, an arm operatively connected to the rack and projecting rearwardly therefrom, a line connected to the rear end of the arm and extending forward above the rack with its front end adapted to be held by a player, a ball suspended from the line and movable by gravity along it, and a plurality of pins loosely anchored to the rack and adapted to be knocked down by said ball, extra pull on the front end of the line serving to lift the rear end of said arm for returning said ball to the player and for tilting the rack to reset the pins.

2,404,297
DETERGING, WETTING, AND EMULSIFYING COMPOSITIONS
Harry H. Kroll, Providence, R. I., assignor to Alrose Chemical Company, Cranston, R. I., a corporation of Rhode Island
No Drawing. Application June 4, 1943, Serial No. 489,674
13 Claims. (Cl. 252—111)

1. A composition of matter having deterging and wetting properties composed of a mixture of a neutral higher fatty acid amide of the alkylol amines, a water-soluble soap containing from 10 to 18 carbon atoms inclusive, in which the cation is a member of the group composed of the alkali metals, ammonium and substituted ammonium bases, and a water-soluble organic nitrogenous base, said mixture having been heat treated for substantially 15–45 minutes in the range substantially 160–125° C.

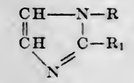
2,404,298
SAPONACEOUS DETERGENT HAVING IMPROVED HARD-WATER CHARACTERISTICS
Harry H. Kroll, Chicago, Ill., and Mark Weisberg, Providence, R. I., assignors to Alrose Chemical Company, Cranston, R. I., a corporation of Rhode Island
Application August 10, 1945, Serial No. 610,022
18 Claims. (Cl. 252—117)

1. A detergent having improved hard water characteristics comprising a water-soluble organic amine, an amide of an alkylol amine and a higher molecular weight carboxy acid, and a water-soluble soap, in the ranges 5–20%, 20–40% and 40–80% respectively, said percentages being based on the amount of these said three components, which detergent has the form of a bar or cake with a smooth uniform appearance and the smooth feel of bar soap and which is produced by heating the aforesaid components at substantially 125°–160° C. for a period of substantially 45–15 minutes.



2,404,299
SUBSTITUTED IMIDAZOLES
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 3, 1944, Serial No. 524,929
7 Claims. (Cl. 260—309)

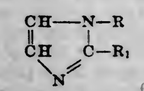
1. A compound of the group consisting of substituted imidazoles of the formula type:



in which R represents an acyclic hydrocarbon radical having from 10 to 16 carbon atoms in its structure and R_1 represents an acyclic hydrocarbon radical having from 1 to 5 carbon atoms in its structure and acid salts thereof, prepared for use as therapeutic agents.

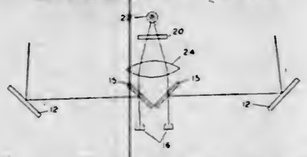
2,404,300
SUBSTITUTED IMIDAZOLES
Lucas P. Kyrides, Webster Groves, and Ferdinand B. Zienty, St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 22, 1944, Serial No. 527,674
7 Claims. (Cl. 260—309)

1. A compound of the group consisting of substituted imidazoles of the formula type:



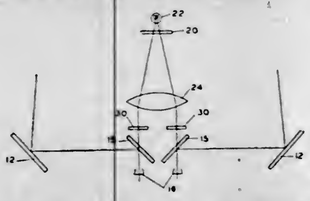
in which R represents an acyclic hydrocarbon radical having from 1 to 5 carbon atoms in its structure and R_1 represents an acyclic hydrocarbon radical having from 10 to 16 carbon atoms in its structure and acid salts thereof, prepared for use as therapeutic agents.

2,404,301
RANGE FINDER
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application March 2, 1943, Serial No. 477,707
10 Claims. (Cl. 88—2.6)



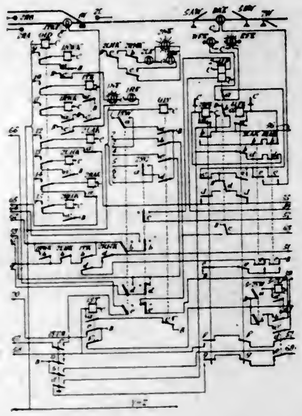
1. In a binocular range finder, in combination, a reticle comprising a plurality of indicia, a collimating lens positioned between said reticle and the eyes of an observer, means for superimposing a single image of said reticle upon the field of view, said image being at all times visible to both eyes of an observer, and means for so positioning said reticle with respect to said lens that each of said indicia is positioned a predetermined different distance from the focal plane of said lens, the apparent position of said image in said field of view being a function of the distance between said reticle and the focal plane of said lens.

2,404,302
RANGE FINDER
Edwin H. Land, Cambridge, Mass., and Dexter P. Cooper, Jr., Washington, D. C., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 22, 1943, Serial No. 484,005
5 Claims. (Cl. 88—2.6)



1. In a range finder having a left-eye and a right-eye viewing means through which an observer looks when viewing an object to be ranged and means for increasing the interocular of the observer, in combination, a reticle positioned in the field of said viewing means, said reticle being formed of transparent material having predetermined areas therein which are rendered light-polarizing and which form at least two indicia elements spaced with respect to each other to provide a stereoscopic pair which can be fused when viewed stereoscopically, the spacing between said indicia elements forming a stereoscopic pair being of a magnitude to cause the fused indicia elements to appear in said field at a predetermined apparent distance from the range finder when viewed through said viewing means, said areas being predeterminedly polarized so that only one of said indicia elements of a stereoscopic pair is visible when viewed in light polarized in a predetermined plane and only the other of such stereoscopic pair of indicia elements is visible when viewed in light polarized in a plane at 90° to said first named plane, and analyzing means in the field of each viewing means between said reticle and said viewing means whereby only a different indicia element of a stereoscopic pair is observable through each viewing means.

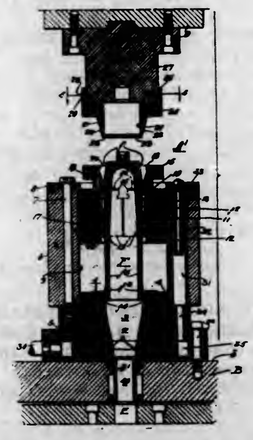
2,404,303
RAILWAY TRAFFIC CONTROLLING APPARATUS
John Carl Law, Topeka, Kans., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 10, 1944, Serial No. 539,619
15 Claims. (Cl. 246—3)



1. Railway traffic controlling apparatus comprising, a signal at each end of a stretch of railway track for governing traffic movements into the stretch, a signal control relay and a traffic relay at each signal location, a system of reversible signal circuits controlled jointly by said traffic relays in selected positions and by traffic conditions in the stretch for rendering one signal or the other responsive to the operation of its control relay, a code system for communicating between said signal locations and a control office having a starting relay and a signal lever for each signal location, a starting button for each starting relay, a directional relay controllable by said levers when the stretch is unoccupied to designate one end of the stretch or the other as the entrance end, a circuit for energizing each starting relay including a contact of the associated starting button, means controlled by each starting relay when energized for effecting the code control of the signal control relay at the corresponding location in accordance with the position of its lever and of the traffic relay at that location in accordance with the position of said directional relay, a second circuit for energizing each starting relay including a contact of the starting button associated with the other starting relay and a normal or reverse contact of said directional relay for effecting the code control of the traffic relay for the exit end in response to the operation of the starting button for the entrance end of the stretch, and means rendering said second circuit effective temporarily in response to a change in the position of said directional relay.

10. In combination with a section of railway track including a hand throw switch, an electric lock effective when deenergized to prevent the hand operation of the switch, a track relay for indicating the presence of a train in said section, an indication relay for the switch having its energizing circuit closed only when the switch is locked in its normal position, time measuring means controlled by the track relay and adapted to be set into operation when a train enters said section provided said indication relay is then energized, means for energizing the electric lock when the time measuring means completes its operation provided the indication relay is released, and means adjacent the switch for manually releasing said indication relay.

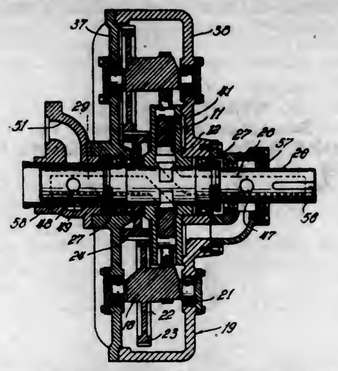
2,404,304
NOSING-IN APPARATUS FOR SHELL FORGINGS
Le Roy Layton, Lansdowne, Pa., assignor to Lansdowne Steel & Iron Company, Morton, Pa., a corporation of Pennsylvania
Application June 4, 1942, Serial No. 445,797
13 Claims. (Cl. 78—15)



1. A nosing-in device, comprising a die having a bore of progressively decreasing diameter, a chuck for circumferentially embracing a hollow forging and leaving an open end projecting axially for entrance into said bore, means enclosing said chuck circumferentially and extending axially from said die for axially aligning said chuck with said bore, and means normally spaced axially from said chuck to provide for insertion of a forging into the chuck between the chuck and said means, said means being adapted to move axially into contact with the chuck after insertion of the forging for advancing said chuck and forging axially to force the extended open end of the forging into said bore to effect radial contraction thereof.

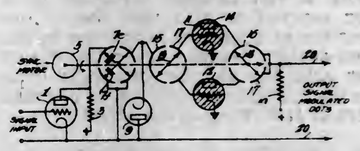
2,404,305
RADIAL RECIPROCATING PISTON DEVICE
Anthony Theo Logus, Cedar Rapids, Iowa
Application August 23, 1943, Serial No. 499,593
5 Claims. (Cl. 103—174)

1. A radial reciprocating piston device comprising a stationary cylinder block having a bore therethrough and having a plurality of cylinders radially disposed about a bore and having ports through which they communicate with the bore, a drive shaft extending through the bore and having supply and discharge conduits therein, a gear fast on the drive shaft, a gear meshing therewith for each of the pistons, eccentric means connecting each of the pistons with its gear in driving relationship, the phase of each piston in its reciprocatory cycle at a given instant corresponding to its angular position about the shaft, and valve means formed by the shaft in said bore connecting each of said ports with said supply and discharge passages consecutively in correct timing with the reciprocation of the pistons; all of the pistons and cylinders, the eccentric therefor, the gear rings associated with



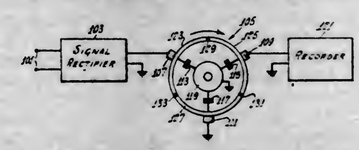
the eccentrics and the bearings associated with the gear rings being identical.

2,404,306
COMMUNICATION SYSTEM
David G. C. Luck, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 1, 1941, Serial No. 386,302
11 Claims. (Cl. 250—6)



10. The combination of a wave signaling apparatus including means for sequentially producing one plurality of electrical charges at a predetermined rate and of a magnitude dependent on the magnitude of said signaling wave, means for sequentially dissipating said charges at said predetermined rate, means responsive to said charge dissipation for producing electrical pulses varying as the periods of said charge dissipation, wave signaling receiving apparatus including means for sequentially producing another plurality of electrical charges at said rate and of a magnitude determined by the duration of said pulses, and means sequentially responsive to said other electrical charges for reconstructing said signaling wave.

2,404,307
ELECTRICAL CIRCUIT
James Napoleon Whitaker, West Englewood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1942, Serial No. 436,983
12 Claims. (Cl. 250—20)



1. The method of converting time-modulated signals into amplitude-modulated signals which comprises the steps of receiving time-modulated signals, deriving an electrical charge proportional

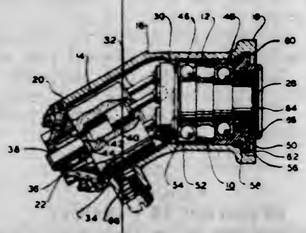
to the time duration of the signals, and utilizing the derived charge to control the amplitude of a unidirectional current in proportion to the magnitude of the derived charge.

2,404,308
VEHICLE WHEEL
Joseph Magdus, Chicago, Ill.
Application January 15, 1945, Serial No. 572,826
6 Claims. (Cl. 301—6)



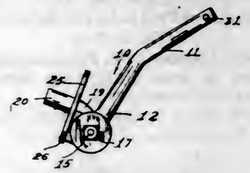
1. In a reversible vehicle wheel, the combination with a rim member therefor, of a plate member secured to said rim, and a one-piece hub member of double H formation in diametrical cross-section secured centrally of said plate member, said hub member integrally comprising a brake drum and providing a pair of brake drum members at each face of the wheel.

2,404,309
POWER TRANSMISSION
Joseph A. Martin, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 15, 1944, Serial No. 545,119
1 Claim. (Cl. 103—162)



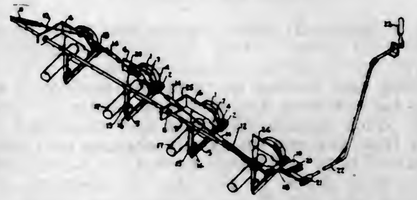
A fluid pump or motor device comprising a unitary tubular housing having two straight cylindrical portions angularly disposed to each other and joined by a bend, a revolving group assembly comprising piston and cylinder mechanism and cylinder driving mechanism, a drive shaft provided with bearings and with a bearing retaining sleeve and connected to said cylinder driving mechanism, said assembly being insertable from one end of the housing by passing the piston and cylinder mechanism through the bend in the housing and by simultaneously telescoping the retainer sleeve into one of the straight housing portions, means for locking the retainer sleeve in position in the housing, and valve means providing inlet and outlet ports for the device.

2,404,310
RAILWAY CAR WHEEL TRUCK
William P. McCallick, El Paso, Tex., assignor of fifteen per cent to Raul M. Ruiz, El Paso, Tex.
Application April 10, 1945, Serial No. 587,476
5 Claims. (Cl. 214—65.4)



1. A truck for handling car wheels consisting of a lever having its lower end bent and turned toward itself, said bend forming a fulcrum support, a shaft carried by the support and forming said fulcrum, wheels on said shaft and a wheel bearing plate supported on said shaft, said turned portion forming an outwardly extending tongue, adapted to fit and project into the hub of the wheel, and said plate being substantially the diameter of a car wheel and provided with a straight lower edge.

2,404,311
VALVE ACTUATING MECHANISM
Leavern I. Plank, Santa Barbara, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application April 26, 1944, Serial No. 532,914
4 Claims. (Cl. 74—2)

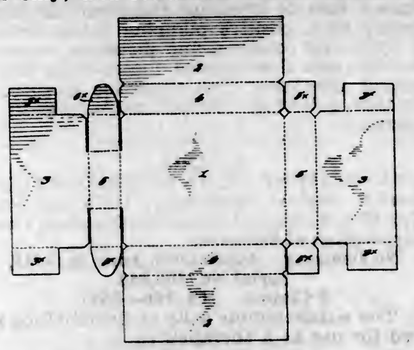


1. Activating mechanism for a plurality of control devices comprising a slideable rod, a plurality of arms on said rod, yieldable means urging said arms out of contact with said control devices and yieldable means urging said arms into contact with said control devices, and a heat responsive element in association with said first mentioned yieldable means whereby said first mentioned yieldable means is rendered inoperative upon a sufficient rise in temperature.

2,404,312
REINFORCING LINER AND PACKAGE FOR CIGARETTES AND OTHER ARTICLES
Richard S. Reynolds, Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application July 28, 1943, Serial No. 496,448
3 Claims. (Cl. 206—41.2)

1. A reinforcing shell and package for cigarettes and other articles comprising: a unitary sheet of flexible material cut, scored and folded to form an unbroken major face, a second major face constructed consisting of two sets of broken walls; one set extending transversely of the other and the sets lying in contact; side walls connecting the first set to the unbroken major face; top and bottom walls connecting the unbroken major face with the second set; side

wings carried by the said second set and overlying the side walls at the central area of said side walls only; and retractible closure means con-



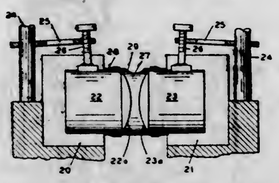
sisting of two sections of the top wall projecting in opposite directions from a central area of said top wall and hinged thereto.

2,404,313
COATED FABRIC
Ernest A. Rodman, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 9, 1943, Serial No. 471,873
1 Claim. (Cl. 117—161)

A coated fabric suitable for the manufacture of raincoats and the like comprising a light weight textile fabric having approximately six ounces per square yard of the following approximate composition adhered to at least one side of said fabric:

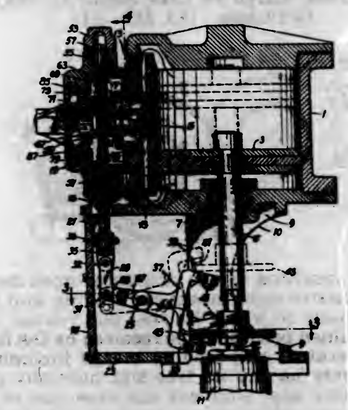
	Percent
Copolymer of vinyl chloride and vinyl acetate in the ratio of approximately 90 parts vinyl chloride and approximately 10 parts vinyl acetate	39.30
Azelaic di-ester of monobutyl ether of ethylene glycol	22.18
Pigments	39.13
Stabilizer for vinyl resin	.39

2,404,314
MOLDING APPARATUS
Howard G. Rogers, Wellesley Hills, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application May 25, 1943, Serial No. 488,375
5 Claims. (Cl. 18—39)



1. In apparatus of the character described, a plurality of cylindrical mold elements, a plurality of supports having grooves for receiving said mold elements and maintaining the latter in coaxial alignment, said mold elements being free for sliding movement relative to said supports and for ready removal as a unit from said supports, holding means carried by each of said supports for releasably securing the mold elements to said supports, means for mounting said supports for sliding coaxial movement relative to one another, and means comprising a micrometer mechanically associated with said last named mounting means and one of said supports for adjusting and measuring accurately the separation between the faces of the mold elements carried by said supports.

2,404,315
RECIPROCATING ENGINE
Lutwin C. Rotter, Maplewood, and Victor G. Klein, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Original application October 4, 1943, Serial No. 504,852. Divided and this application December 11, 1944, Serial No. 567,590
5 Claims. (Cl. 74—100)



1. Over-centering valve mechanism comprising a fixed guide, a movable guide moving laterally thereto, means for biasing the movable guide toward the fixed guide, a rocker carrying near one end means engaging and movable along the fixed guide and at the other end means engageable with and movable along the movable guide, pivoting means supporting said rocker for rotary and relative sliding movement, and a reciprocating trip shoe pivotally attached near one end of said rocker and movable along a line between the fixed guide and said pivoting means.

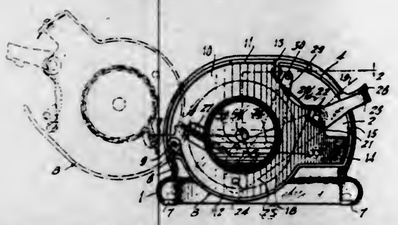
2,404,316
AMPULLA SYRINGE
Anni Sack, Basel, Switzerland
Application April 4, 1941, Serial No. 386,933
In Switzerland May 6, 1940
3 Claims. (Cl. 128—272)



1. An ampulla-syringe comprising a liquid-container having a body of transparent, compressible material, a rigid hollow head part thereon and subject to pressure upon compression of said

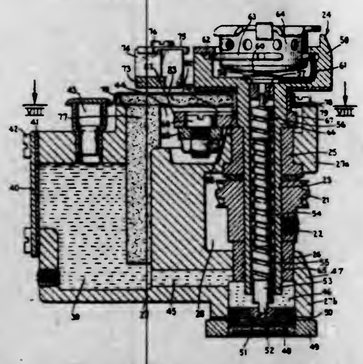
body, means on said head part for supporting an injection needle, and means removably interconnecting said body and head part while securely retaining the same in interconnected relationship against the influence of the pressure generated upon the compression of said body, said last-named means comprising a closure member arranged between said head part and said body and separating the interiors thereof from each other, said closure member being in screw-threaded engagement with said body and with said head part.

2,404,317
TAPE APPLIER
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application March 29, 1945, Serial No. 585,405
12 Claims. (Cl. 216—21)



1. In a machine of the character described, a roll of adhesive tape, means for feeding said tape longitudinally to locate its free end portion in a predetermined position to be received by the finger of the operator, said feeding means including a pivoted lever having its free end normally positioned under and adjacent the free end of the tape whereby said tape end is adapted to be held between the finger and lever end, the pivot point of said lever and the point of rotation of said roll being so positioned relatively that upon manual movement of the lever by the finger pressing upon said tape end, said strip of tape will be pulled longitudinally to said predetermined position.

2,404,318
SEWING MACHINE
George Sauer, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application August 25, 1942, Serial No. 455,977
13 Claims. (Cl. 112—256)

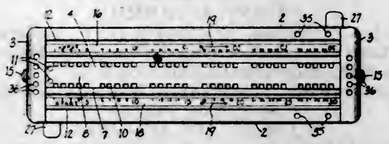


1. In a sewing machine, a vertical axis hook having a hollow shaft connected therewith, said hook having a raceway, a lubricant reservoir communicating with the lower end of said shaft, adjustable means within the bore of said shaft operable only upon rotation of the shaft to induce a flow of lubricant therethrough to said raceway by a positive pumping action dependent upon said rotation, and means so cooperating with said first recited means that adjustment of the latter will vary the quantity of lubricant delivered through said bore to the raceway.

2,404,319
BUTANOLAMINE SALTS OF THEOPHYLLINE
Robert S. Shelton, Mariemont, Ohio, assignor to The Wm. S. Merrell Company, Reading, Ohio, a corporation of Delaware
No Drawing. Application June 28, 1941, Serial No. 400,345
3 Claims. (Cl. 260—253)

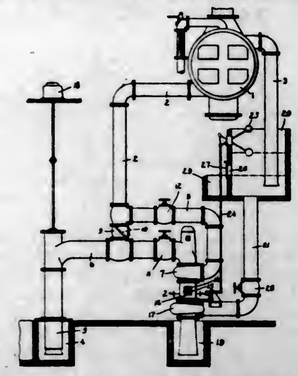
1. The butanolamine salts of theophylline prepared for use as a therapeutic.

2,404,320
CRIBBAGE BOARD
Robert C. Shipley, Kalamazoo, Mich.
Application September 24, 1945, Serial No. 618,323
15 Claims. (Cl. 235—90)



15. A cribbage board comprising a pegging surface provided with two series of pegging holes, there being a chamber member at each side of the pegging surface, counter members of polygonal section rotatably mounted in said chamber and provided with counting indicia on each side thereof corresponding in number to the number of pegging holes in the series, the indicia of adjacent sides being consecutive, and an actuating member for rotating each counter member.

2,404,321
CONDENSER CIRCULATING SYSTEM
Frank D. Shumate, Larchmont, N. Y., and George W. Saathoff, South Orange, N. J.; said Shumate assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware; said Saathoff assignor to Helen S. Davis, Lexington, Mass.
Application July 23, 1942, Serial No. 452,010
12 Claims. (Cl. 257—44)

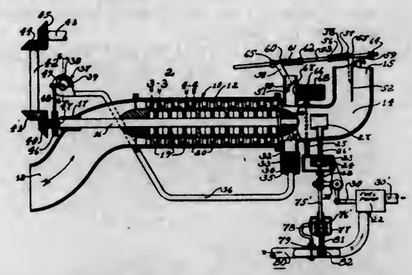


1. In a power plant, the combination with a source of cooling water supply, of a surface condenser, a circuit for cooling water for said condenser, a primary pump in said circuit, a secondary pump in said circuit and having its inlet connected to the discharge of the primary pump, a turbine in said circuit driven by water flowing away from the condenser, said secondary pump connected to said turbine for operation thereby, and means for controlling the total static head on the inlet of said hydraulic turbine under variations in the water level in said source of supply.

2,404,322
ERASER COMPOSITION
Stanley H. Southard, Richmond Hill, N. Y., assignor to Sun Chemical Corporation, a corporation of Delaware
No Drawing. Application July 21, 1943, Serial No. 495,658
5 Claims. (Cl. 51—298)

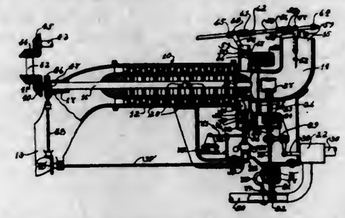
2. An eraser composition of the character described, comprising approximately 88 parts by weight of polyvinyl acetate, 6 parts by weight of dibutyl phthalate and 6 parts by weight of rosin, said admixtured composition at normal temperatures having substantially the same elasticity, flexibility, body consistency and resistance to deformation as rubber erasers heretofore generally used but having the characteristic of temporary softening under the heat generated by friction in an erasing operation upon paper and the like at temperatures substantially above room temperatures to provide a softened zone which is localized as to depth while maintaining said normal body consistency, solidity, elasticity and flexibility of the main body portion of the eraser outside said localized friction softened zone, said softened zone being changed by the friction heat to be so tacky and adhesive as to adhere to and remove writings and markings from the paper without more adverse effect thereon than occurs with use of the rubber erasers formerly used which softened zone resets to its normal thermoplastic condition at room temperatures after an erasing operation.

2,404,323
SUPERCHARGER CONTROL APPARATUS
Allen C. Staley, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 1, 1942, Serial No. 425,298
12 Claims. (Cl. 123—119)



1. In a supercharger for supplying air to an internal combustion engine; apparatus for maintaining operation of said supercharger within its pumping limit throughout relatively wide ranges of operating speeds and inlet air densities respectively including a spill valve for discharging air to atmosphere subjected on one side to and adapted to be opened by the discharge pressure of said supercharger, and means responsive to changes in both the speed of operation of said supercharger and the air density in the vicinity of its air inlet for variably urging said valve toward its closed position with a force varying directly in accordance with speed and directly with respect to inlet air density.

2,404,324
SUPERCHARGER CONTROL APPARATUS
Allen C. Staley, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 6, 1942, Serial No. 441,947
3 Claims. (Cl. 230—115)



1. In an axial supercharger for supplying air to an internal combustion engine; apparatus for maintaining operation of said supercharger within its pumping limit throughout relatively wide ranges of operating speeds and inlet air densities respectively including a spill valve subjected on one side to and adapted to be opened by the discharge pressure of said supercharger, and means responsive to changes in both the speed of operation of said supercharger and its inlet air density for variably urging said valve toward its open position with a force varying inversely in accordance with speed and inlet air density, said means including an air density responsive element and a speed responsive element operating on the other side of said valve.

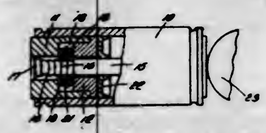
2,404,325
EXTRACTOR-SWITCH MECHANISM FOR MACHINE GUNS
Carl G. Swebilius, Hamden, Conn., assignor to The High Standard Manufacturing Company, Hamden, Conn., a corporation of Connecticut
Application November 19, 1943, Serial No. 510,854
2 Claims. (Cl. 89—33)



1. The combination with a machine gun having a breech-bolt and a pivotal cartridge-extractor carried by the said breech-bolt: of a hollow receiver-structure having a bearing-opening extending through a wall-portion thereof; a pivotal extractor-switch located mainly within the receiver-structure and constructed and arranged to deflect the cartridge-extractor of the machine gun, the said extractor-switch having a rigid trunnion extending outwardly through and beyond the bearing-opening in the adjacent wall-portion of the said receiver-structure, the said trunnion having a spring-receiving socket therein located in its portion projecting outwardly beyond the said wall-portion; and a laterally-bendable spring having one end held by the said receiver-structure and having its opposite end

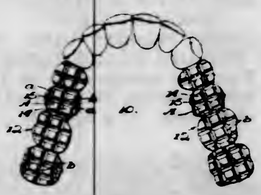
extended into the spring-receiving socket in the trunnion of the said extractor-switch to turn the said trunnion and hence also turn the said extractor-switch and to also act as a positive key to limit the inward displacement of the said trunnion, the end of the spring which is entered into the socket in the trunnion of the extractor-switch being pre-set outwardly away from the outer face of the adjacent wall-portion of the receiver-structure to thereby draw the said trunnion outwardly.

2,404,326
SELF-ADJUSTING MECHANISM FOR HYDRAULIC WHEEL BRAKES
Arthur George Taylor, Hadley, Barnet, England, assignor of one-half to F. J. Walker Engineering Company Limited, Barnet, England, a British company
Application July 18, 1945, Serial No. 605,727
In Great Britain July 31, 1944
4 Claims. (Cl. 188—79.5)



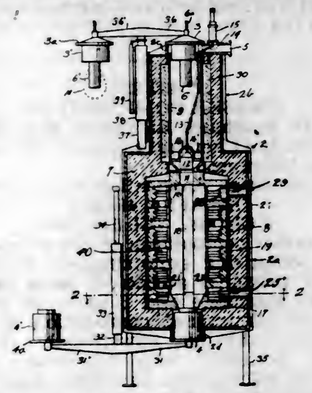
1. In a hydraulic brake, a cylinder, two opposed pistons in said cylinder, an axial bore in each of said pistons, a rigid member having its ends located in the bores in said pistons, a series of abutments at each end of said rigid member, engagement means capable of limited movement within each of said pistons, and means permitting said engagement means to pass said abutments in one direction only.

2,404,327
ARTIFICIAL TOOTH
John C. Tighe, Omaha, Nebr.
Application March 23, 1943, Serial No. 480,202
5 Claims. (Cl. 32—8)



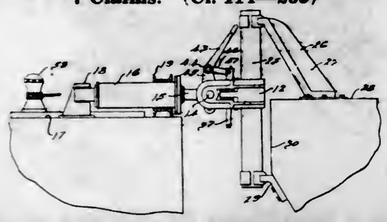
1. An artificial posterior tooth having a serrated occlusal surface providing a plurality of elevated flat portions and a plurality of communicating grooves extending entirely across the occlusal surface spacing the flat portions from each other, said flat portions lying in the same plane and said grooves being of uniform depth and diameter to eliminate food pockets and all of the grooves being disposed in the same plane with relation to the occlusal surface, the outermost grooves opening laterally outwardly at the sides of the tooth to provide escapage of foods from and through the grooves during the masticating stroke, regardless of the direction of opposing pressure, said flat portions being subject to a grinding action to fit the curved plane established by the jaw of each individual patient, and said grooves being restorable for adjustment purposes or to normal condition after the flat surfaces have been ground.

2,404,328
FUEL FIRED VACUUM FURNACE
John J. Turin, West Newton, Mass., and Arthur W. Peters, Toledo, Ohio, assignors, by mesne assignments, to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application November 30, 1944, Serial No. 565,936
8 Claims. (Cl. 266—15)



1. In apparatus for the thermal treatment in a vacuum of a magnesium oxide containing material capable of evolving magnesium vapor, the combination which comprises a relatively tall heat conducting refractory structure defining a container for a charge of said material, the said structure being chambered to provide a combustion space, burner means for delivering fuel to said combustion space for heating said structure to an elevated temperature substantially higher than 2100° F. before producing a vacuum in said chamber, a vacuum casing wherein said structure is housed and wherein a vacuum must prevail in order that a vacuum may prevail in said container during the thermal treatment of said material, said structure being so massive that when it has been heated to said elevated temperature there will be present in said structure all of the heat required to react the charge of said material in said container, and said container having a circumferential series of relatively narrow upright reentrant channels for the reception of the said material.

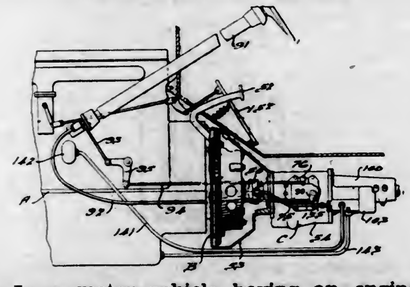
2,404,329
COUPLING UNIT
David A. Wallace, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 8, 1944, Serial No. 530,215
7 Claims. (Cl. 114—235)



4. A coupling comprising relatively movable jaw elements having clamping end portions formed to embracingly partially surround an object and having opposite overlapping end portions, yieldable frictional lining material on the internal sides of said clamping end portions, a pivot connecting said jaw elements at a location

intermediate said end portions, one of said overlapping end portions having a slot therein located on the side of said pivot opposite from its clamping end portion, and the other of said superimposed end portions having a shoulder registerable with said slot, a locking bar shiftably mounted in said slot having a wedge-shaped portion engageable with said shoulder and an end of said slot for progressively wedging said overlapping end portions apart and said clamping end portions together into firm gripping engagement with said object during slight relative movements of said jaw elements, said locking bar having a reduced end portion adapted when aligned with said shoulder to accommodate opening of said jaw elements, means for shifting said locking bar to bring said reduced end portion thereof into alignment with said shoulder, a latch element for releasably holding said locking bar in said last mentioned position, and means on one of said jaw elements engageable with said latch element for releasing the same to accommodate movement of said wedge portion into registration with said shoulder during initial relative closing movement of said jaw elements.

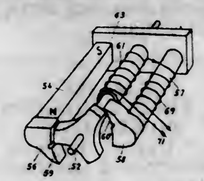
2,404,330
POWER TRANSMISSION
David A. Wallace and Edward C. Lee, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 2, 1941, Serial No. 409,210
11 Claims. (Cl. 192—3.5)



1. In a motor vehicle having an engine, a clutch and a change speed transmission, a pressure fluid actuated motor for controlling said transmission so as to cause the transmission to drive at one speed ratio in one position of the motor and to drive at another speed ratio in another position of the motor; a valve for controlling said motor including leader and follower members so arranged that said leader member may be operated in advance of said follower member, operation of said follower member causing operation of said motor; means operably connecting said leader member with said motor whereby said leader member is operated in response to operation of said motor, and means operably connecting said follower member with said clutch whereby said follower member may be locked against operation incidentally to operation of said clutch.

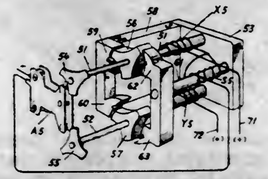
2,404,331
ELECTROMAGNETIC MOTOR
Sture Edvard Werner, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application October 27, 1942, Serial No. 463,562
In Sweden November 14, 1941
11 Claims. (Cl. 172—36)

1. In an electro-magnetic motor for driving teletechnic devices and more particularly automatic telephone selectors by means of electric current impulses, a rotor, a motor winding operative when energized to effect a step-wise movement of said rotor, and means exerting a constant magnetic



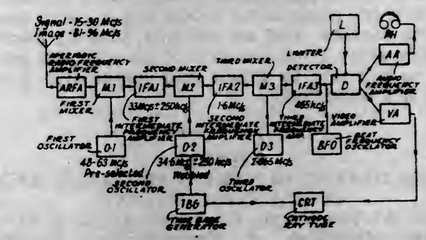
influence on said rotor and positioned with respect to said winding to effect a second step-wise movement of said rotor when the winding is de-energized.

2,404,332
MOTOR FOR TELEPHONE SELECTORS
Sture Edvard Werner, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application February 16, 1944, Serial No. 522,668
In Sweden January 13, 1943
7 Claims. (Cl. 172—36)



1. In an electro-magnetic motor for driving teletechnic devices, two rotors, a motor winding for each rotor operative when energized to effect a step-wise movement of the related rotor, and magnetic means common to both said rotors and exerting a constant magnetic influence on said rotors, said means being operative when either winding is de-energized to effect a second step-wise movement of the related rotor.

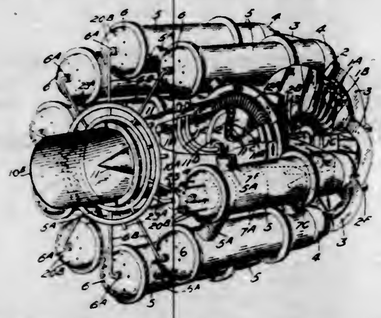
2,404,333
RADIO RECEIVER
Harry Whalley, Darwen, and Charles Walter Miller, Sale, England, assignors to Metropolitan-Vickers Electrical Company Limited, London, England, a company of Great Britain
Application December 16, 1943, Serial No. 514,478
In England August 8, 1941
1 Claim. (Cl. 250—20)



In a panoramic receiver, an input radio frequency amplifier stage aperiodic over the range of signals to be received, a first frequency changer stage variable to select a band of frequencies of substantially constant width to be scanned and arranged to convert the selected band to an intermediate frequency higher than that of the received signal, an intermediate frequency ampli-

fier, a second frequency changer stage for scanning the band selected by the first frequency changer stage, means for varying the oscillator frequency of said second frequency changer stage to effect panoramic scanning, and a detector stage for the scanned signals.

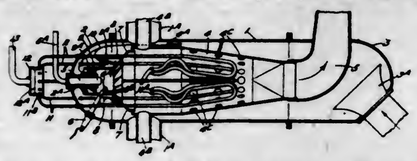
2,404,334
AIRCRAFT PROPULSION SYSTEM AND POWER UNIT
Frank Whittle, Rugby, England, assignor to Power Jets (Research & Development) Limited, London, England
Application February 19, 1941, Serial No. 379,734
In Great Britain December 9, 1939
15 Claims. (Cl. 60—35.6)



1. An engine of the character described comprising a centrifugal compressor having intake eyes symmetrically disposed on opposite sides of its plane of rotation and a plurality of outlets symmetrically disposed in circular disposition about its axis of rotation, a corresponding and similarly disposed plurality of air ducts leading from said outlets towards one side of said plane, an axial flow turbine arranged coaxial with said compressor on the same side thereof as that of said ducts and adapted to directly mechanically drive the compressor, a plurality of combustion chambers arranged in circular disposition around said axis, an air duct connecting each of said outlets to one of said chambers, means for introducing fuel into each of said chambers for continuous combustion therein, a combustion product duct leading from each of said chambers to said turbine on the side thereof to which said compressor is located, the construction formed by said air ducts, combustion chambers and combustion product ducts constituting a skeleton structure leaving open acess through which air is permitted to enter the compressor intake eye situated nearer the turbine, and an exhaust conduit leading axially away from the side of the turbine opposite to the side to which said combustion products are admitted.

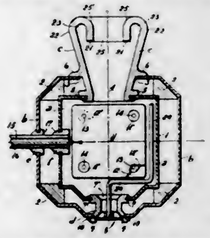
2,404,335
LIQUID FUEL BURNER, VAPORIZER, AND COMBUSTION ENGINE
Frank Whittle, Rugby, England, assignor to Power Jets (Research & Development) Limited, London, England
Application February 19, 1941, Serial No. 379,735
In Great Britain December 9, 1939
2 Claims. (Cl. 60—44)

1. In a combustion engine of the character described, means for burning liquid fuel comprising a plurality of circular-sectioned air casings adapted to be supplied in parallel with compressed air through openings adjacent one end thereof, a circular-sectioned flame tube located coaxially within each of said air casings having one open end and additional openings in its side wall for the entry of air, the open end of each flame tube being that which is opposite the end of the associated air casing through which air is supplied to the latter, means for supplying fuel to said flame tubes uniformly adjacent the open



ends of said tubes, means interconnecting the interiors of all of said air casing to balance the pressures therein, and means interconnecting the interiors of said flame tubes, said means interconnecting the air casings comprising air stub pipes extending between adjacent casings, and said means interconnecting the flame tubes comprising additional stub pipes of less diameter than and passing through said air stub pipes.

2,404,336
ELECTRIC HEATER
Geraldo Cyro Wicks, Ramos Mejia, Argentina
Application January 22, 1944, Serial No. 519,329
6 Claims. (Cl. 219—40)

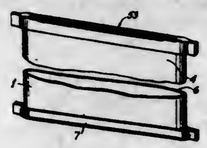


1. An electric water heater comprising a heater chamber provided with an inlet opening in its top and an outlet opening of smaller cross-section in its bottom, electric water heating means in said heater chamber including two series of spaced electrodes for passing current through water introduced into said chamber, an outer casing enclosing said heater chamber, insulating spacer members between the walls of the heating chamber and those of the outer casing, and dielectric mouthpieces passing through corresponding aligned holes in said outer casing into said inlet and outlet opening, respectively, of said heater chamber.

2,404,337
BAG CLOSURE MEANS AND METHOD
Russell J. Williams, Richmond Heights, and Harold C. Davis, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application April 13, 1944, Serial No. 530,800
9 Claims. (Cl. 229—62)

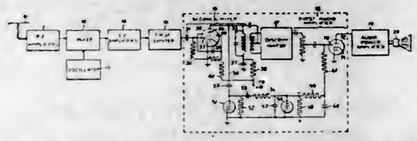
1. A closure for the mouth of a bag or the like comprising a band of adhesive along one margin of the mouth, a removable protective strip covering said band, a cover tape covered on one side with adhesive and attached thereby to the other margin of said mouth and extending beyond the same, and a removable V-shaped protective strip

having one side attached to the extending portion of said cover tape by the adhesive on the



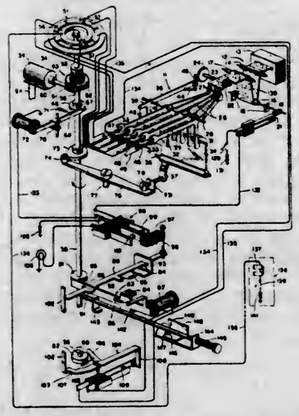
cover tape and having its other side freely movable.

2,404,338
NOISE SUPPRESSION CIRCUITS
Joseph A. Worcester, Jr., Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application August 20, 1941, Serial No. 407,543
23 Claims. (Cl. 250—20)



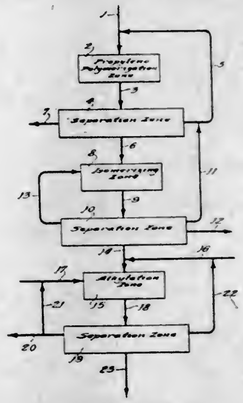
1. In combination, a signal channel for translating signal-bearing waves, amplitude limiting means in said channel effective substantially to remove amplitude modulation from waves impressed thereon only so long as a predetermined limiting level is exceeded, and means responsive to amplitude modulation in waves in the output of said limiting means for disabling subsequent portions of said channel comprising means for rectifying said amplitude modulation to produce a control voltage varying in accordance with the magnitude of said modulation.

2,404,339
PRINTING TELEGRAPH APPARATUS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application February 28, 1945, Serial No. 580,154
11 Claims. (Cl. 178—17)



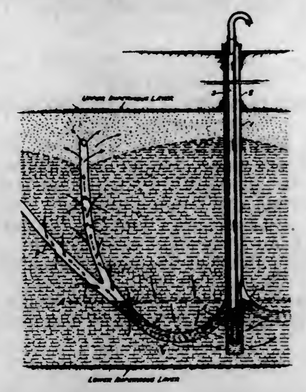
1. In a communication system, a rotary distributor of the start-stop type for generating signals, a break-lock means comprising timing instrumentalities for controlling the operation of said distributor, said means effective in response to a predetermined condition of the signal line, and means at a remote station for producing said predetermined condition to render said break-lock means effective in timed relation to said signals.

2,404,340
PRODUCTION OF HIGH ANTIKNOCK FUEL
Gordon B. Zimmerman, Western Springs, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 19, 1945, Serial No. 605,994
7 Claims. (Cl. 260—671)



1. The process which comprises polymerizing propylene, subjecting at least a portion of the resultant polymers to the action of an olefin isomerizing catalyst at isomerizing conditions, and alkylating an alkylatable hydrocarbon with at least a portion of said isomerized propylene polymer.

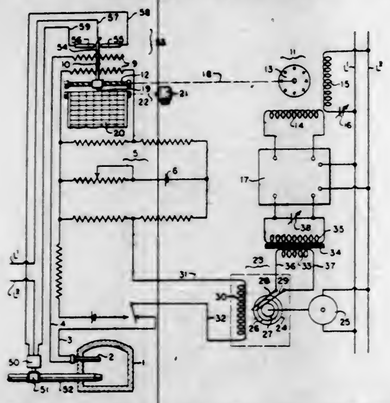
2,404,341
METHOD OF PRODUCING OIL AND RETAINING GAS THROUGH DEVIATING BORES
John A. Zublin, Los Angeles, Calif.
Application June 15, 1944, Serial No. 540,498
3 Claims. (Cl. 166—21)



2. A method for improving the production of oil by gas cap drive comprising drilling at least one bore deviating from a vertical well bore at a point near the lower level of an oil bearing strata, and extending said deviating bore upwardly to a point relatively close to the upper level of the oil bearing strata and thereafter controlling the rate

of the removal of oil from the vertical well so as to maintain a liquid seal intermediate the upper portion of the deviating bore and the vertical well.

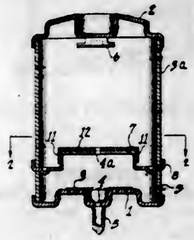
2,404,342
MEASURING AND CONTROL APPARATUS
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 1, 1941, Serial No. 376,972
18 Claims. (Cl. 172—239)



5. In measuring apparatus, the combination of a potentiometer resistance, means for applying a known electromotive force and an unknown electromotive force to said resistance in opposing relation to derive a differential unidirectional electromotive force, means to produce a magnetic field in one direction or the other depending upon the polarity of said differential electromotive force, an electrical conductor, means to relatively move said magnetic field and said electrical conductor to induce an alternating electromotive force of regular frequency in said conductor and of one phase or of opposite phase depending upon the direction of said magnetic field, means to amplify said induced alternating electromotive force, and phase responsive means energized by said amplified alternating electromotive force to effect a balance between said opposed electromotive forces.

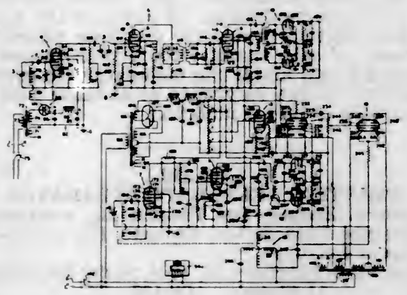
2,404,343
PHOTOTUBE AND METHOD OF MANUFACTURE
Joseph E. Henderson, Seattle, Wash., and Robert B. Janes, Verona, N. J.; said Henderson assignor to the United States of America, as represented by the Secretary of Navy and said Janes assignor to Radio Corporation of America, a corporation of Delaware
Application October 14, 1943, Serial No. 506,274
10 Claims. (Cl. 250—165)

1. A phototube comprising a tubular glass envelope, a metal closure at each end of and forming the end walls of said envelope, a cathode foundation extending transversely of said envelope intermediate said closures, a coating selected from the group consisting of antimony,



arsenic, and bismuth on the surface of said foundation facing one of said metal closures, a similar coating on the other of said closures and alkali metal within said envelope to sensitize said coatings.

2,404,344
MEASURING AND CONTROLLING APPARATUS
Rudolf F. Wild, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,892
19 Claims. (Cl. 172—239)



4. In combination, first and second oscillators to generate an oscillation of relatively high frequency, first and second frequency discriminators each responsive to an individual one of said high frequency oscillations and each operative to produce an output voltage of amplitude varying in accordance with the frequency of the associated oscillation, means to modify the amplitude of each of said oscillations during predetermined time intervals of a second oscillation of relatively low frequency to produce a resulting output voltage from each of said discriminators of amplitude variable in accordance with the frequency of the associated oscillation and undulating at said low frequency, and means to compare the amplitudes of said undulating voltages.

DESIGNS

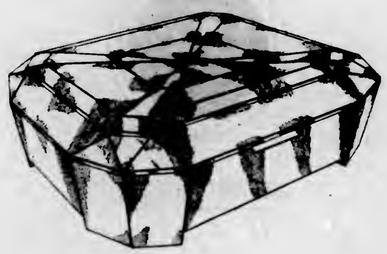
JULY 16, 1946

145,194
DESIGN FOR A WALL BRACKET
Alfons Bach, Stamford, Conn., assignor to Syracuse Ornamental Co., Syracuse, N. Y., a copartnership
Application August 24, 1945, Serial No. 121,607
Term of patent 7 years
(Cl. D33—3)



The ornamental design for a wall bracket, substantially as shown.

145,195
DESIGN FOR A CHEST
Edwin L. Beckwith, Brookline, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire
Application October 12, 1945, Serial No. 122,793
Term of patent 14 years
(Cl. D58—12)



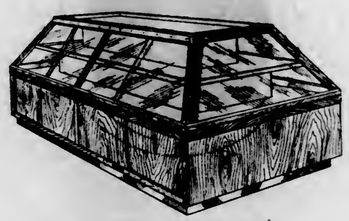
The ornamental design for a chest, substantially as shown and described.

145,196
DESIGN FOR AN EAR ORNAMENT OR SIMILAR ARTICLE
André Boutemy, New York, N. Y.
Application August 4, 1945, Serial No. 121,209
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an ear ornament or similar article, substantially as shown.

145,197
DESIGN FOR A SHOW CASE OR SIMILAR ARTICLE
Clinton J. Christopher, Minneapolis, Minn.
Application November 13, 1945, Serial No. 123,678
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a show case or similar article, as shown and described.

145,198
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,001
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown and described.

145,199
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,002
Term of patent 3½ years
(Cl. D86—10)



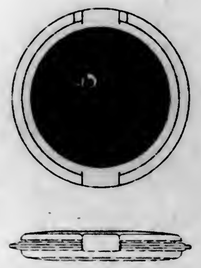
The ornamental design for a compact or similar article, substantially as shown and described.

145,200
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,003
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown and described.

145,201
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,004
Term of patent 3½ years
(Cl. D86—10)



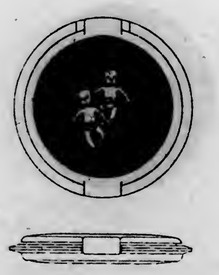
The ornamental design for a compact or similar article, substantially as shown and described.

145,202
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,005
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown and described.

145,203
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,006
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown and described.

145,204
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,007
Term of patent 3½ years
(Cl. D86—10)



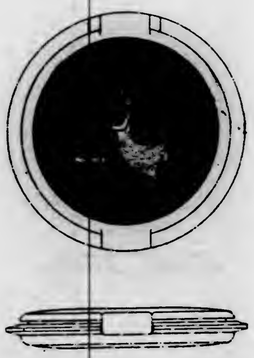
The ornamental design for a compact or similar article, substantially as shown and described.

145,205
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,008
Term of patent 3½ years
(Cl. D86—10)



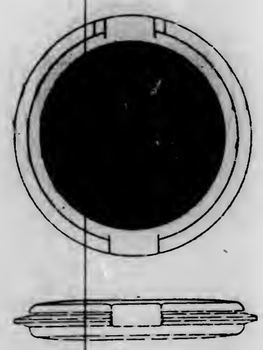
The ornamental design for a compact or similar article, substantially as shown and described.

145,206
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,009
Term of patent 3½ years
(Cl. D86—10)



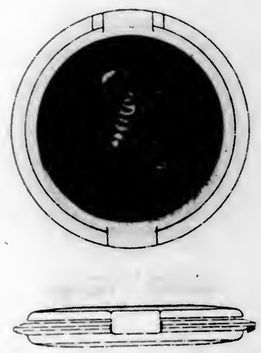
The ornamental design for a compact or similar article, substantially as shown and described.

145,207
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,010
Term of patent 3½ years
(Cl. D86—10)



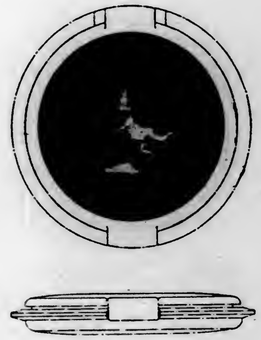
The ornamental design for a compact or similar article, substantially as shown and described.

145,208
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,011
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown and described.

145,209
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Donald L. Elliott, Los Angeles, Calif., assignor to Allied Plastics Company, Los Angeles, Calif., a partnership
Application April 16, 1945, Serial No. 119,012
Term of patent 3½ years
(Cl. D86—10)



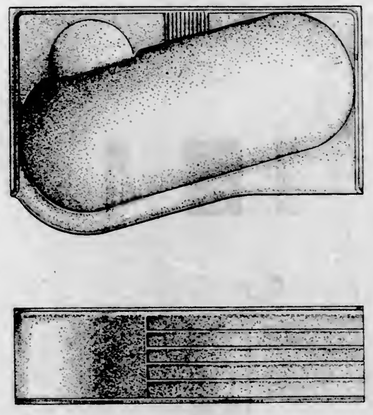
The ornamental design for a compact or similar article, substantially as shown and described.

145,210
DESIGN FOR A RADIO CONTROL KNOB
Evelyne J. Fisk, Kansas City, Mo., assignor to Crystal Products Co., Kansas City, Mo., a copartnership
Application November 13, 1945, Serial No. 123,681
Term of patent 14 years
(Cl. D26—1)



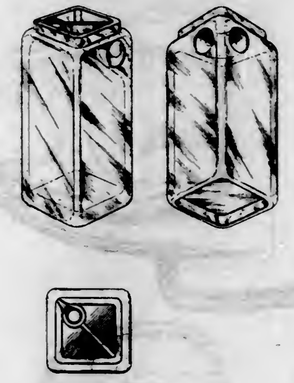
The ornamental design for a radio control knob, substantially as shown.

145,211
DESIGN FOR A BATHTUB
Warren B. Green, Darien, Conn., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 5, 1945, Serial No. 122,571
Term of patent 14 years
(Cl. D4—4)



The ornamental design for a bathtub, substantially as shown.

145,212
DESIGN FOR A JAR OR SIMILAR ARTICLE
Cecil R. Havens, Kansas City, Mo.
Application October 8, 1945, Serial No. 122,640
Term of patent 14 years
(Cl. D58—25)



The ornamental design for a jar or similar article, substantially as shown and described.

145,213
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application August 25, 1945, Serial No. 121,630
Term of patent 7 years
(Cl. D45—19)



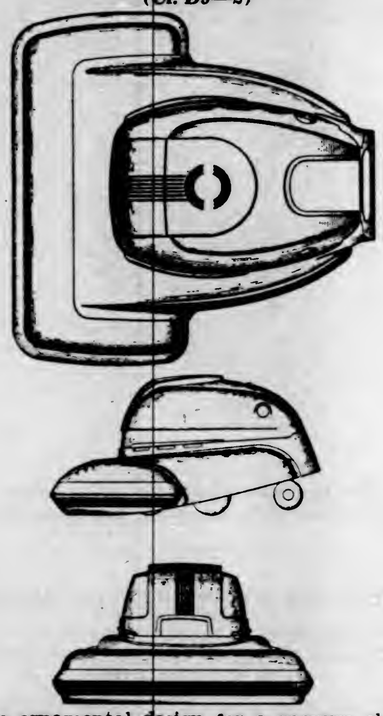
The ornamental design for a brooch pin or similar article, substantially as shown.

145,214
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
William W. Hobé, New York, N. Y.
Application August 27, 1945, Serial No. 121,662
Term of patent 7 years
(Cl. D45—19)



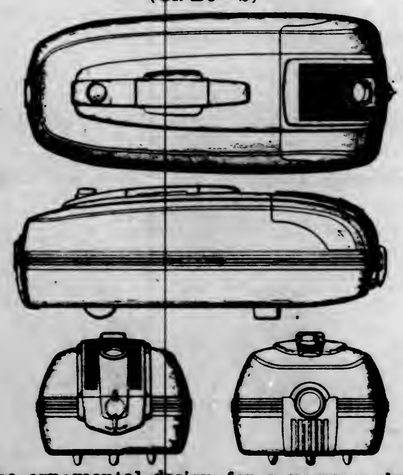
The ornamental design for a brooch pin or similar article, substantially as shown.

145,215
DESIGN FOR A VACUUM CLEANER CASING
Clarence Karstadt, Glen Ellyn, Ill.
Application October 3, 1945, Serial No. 122,487
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a vacuum cleaner casing, substantially as shown.

145,216
DESIGN FOR A VACUUM CLEANER CASING
Clarence Karstadt, Glen Ellyn, Ill.
Application October 4, 1945, Serial No. 122,531
Term of patent 14 years
(Cl. D9—2)



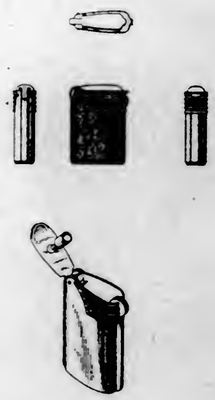
The ornamental design for a vacuum cleaner casing, substantially as shown.

145,217
DESIGN FOR A CIGAR LIGHTER OR SIMILAR ARTICLE
Frederick Kaupmann, Brooklyn, N. Y., assignor to Roson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application August 17, 1945, Serial No. 121,474
Term of patent 7 years
(Cl. D48—27)



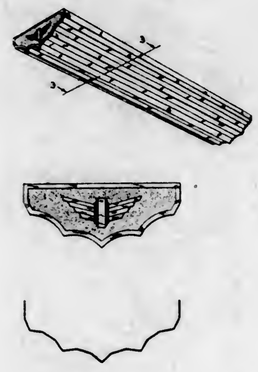
The ornamental design for a cigar lighter or similar article, substantially as shown.

145,218
DESIGN FOR A CIGAR LIGHTER OR SIMILAR ARTICLE
Frederick Kaupmann, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application August 17, 1945, Serial No. 121,475
Term of patent 7 years
(Cl. D48—27)



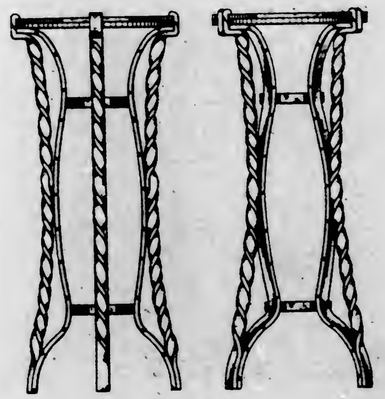
The ornamental design for a cigar lighter or similar article, substantially as shown.

145,219
DESIGN FOR A FLUORESCENT LIGHTING FIXTURE
Albert W. Kirchmer and Leo M. Kirchmer, St. Louis, Mo.
Application September 17, 1945, Serial No. 122,138
Term of patent 7 years
(Cl. D48—23)



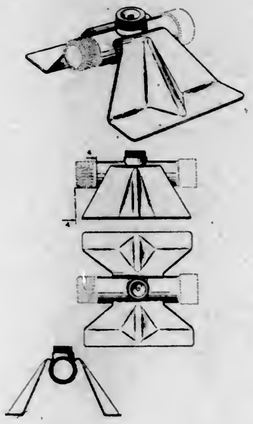
The ornamental design for a fluorescent lighting fixture, as shown.

145,220
DESIGN FOR A PLASTIC UTILITY TABLE
Edmund D. Kissling, New York, N. Y.
Application December 10, 1945, Serial No. 124,580
Term of patent 14 years
(Cl. D33—14)



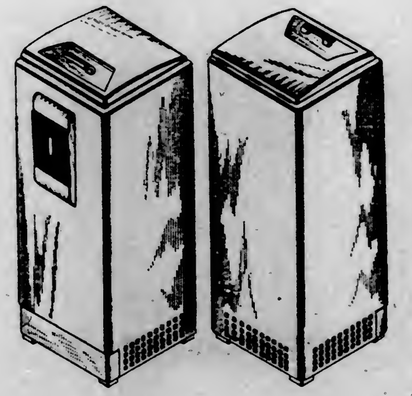
The ornamental design for a plastic utility table, as shown.

145,221
DESIGN FOR A LAWN SPRINKLER
John B. Lerch, Los Angeles, Calif.
Application October 8, 1945, Serial No. 122,644
Term of patent 14 years
(Cl. D91—1)



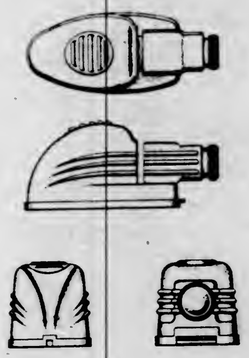
The ornamental design for a lawn sprinkler, substantially as shown and described.

145,222
DESIGN FOR A REFRIGERATOR
Raymond Loewy, New York, N. Y., assignor to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application December 21, 1945, Serial No. 124,919
Term of patent 14 years
(Cl. D67—3)



The ornamental design for a refrigerator, as shown.

145,223
DESIGN FOR A PROJECTOR
Samuel Marcus, New York, and Evan J. Anton, Sunnyside, N. Y.
Application December 19, 1945, Serial No. 124,878
Term of patent 14 years
(Cl. D61—1)



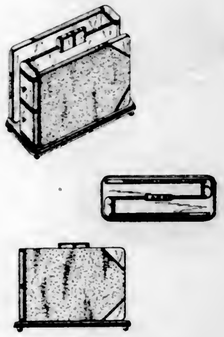
The ornamental design for a projector, as shown.

145,224
DESIGN FOR A SCRUBBING, WAXING, AND POLISHING MACHINE
Ernest J. Newcomer, York, Pa., assignor to Floorola Products, Inc., York, Pa., a corporation of Delaware
Application February 21, 1945, Serial No. 118,072
Term of patent 14 years
(Cl. D9—2)



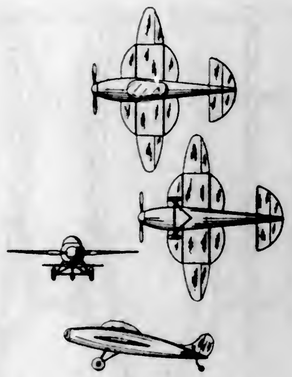
The ornamental design for a scrubbing, waxing, and polishing machine, as shown.

145,225
DESIGN FOR A MAGAZINE AND PAPER HOLDER
Richard Newman, New York, N. Y.
Application November 27, 1945, Serial No. 124,104
Term of patent 7 years
(Cl. D33—2)



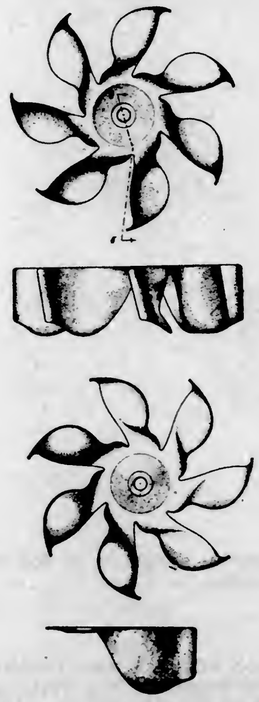
The ornamental design for a magazine and paper holder, as shown.

145,226
DESIGN FOR AN AIRPLANE
Nick G. Pappas, Detroit, Mich.
Application September 29, 1945, Serial No. 122,399
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, as shown.

145,227
DESIGN FOR A BLOW FAN
Ralph Pryne, Los Angeles, Calif.
Application May 7, 1945, Serial No. 119,434
Term of patent 14 years
(Cl D26—7)



The ornamental design for a blow fan, as shown.

145,228
DESIGN FOR A CONDIMENT SHAKER
John Schilz, Los Angeles, Calif.
Application November 7, 1945, Serial No. 123,545
Term of patent 7 years
(Cl. D44—22)



The ornamental design for a condiment shaker, substantially as shown.

145,229
DESIGN FOR A CONDIMENT SHAKER
John Schilz, Los Angeles, Calif.
Application November 7, 1945, Serial No. 123,546
Term of patent 7 years
(Cl. D44—22)



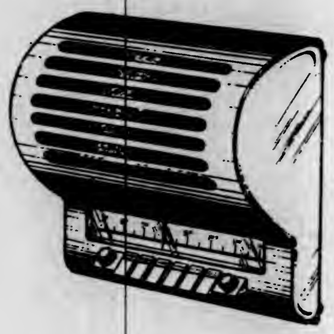
The ornamental design for a condiment shaker, substantially as shown.

145,230
DESIGN FOR A CARPET OR THE LIKE
Earl C. Schmidt, Philadelphia, Pa., assignor to Hardwick & Magee Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 7, 1946, Serial No. 125,337
Term of patent 7 years
(Cl. D92—4)



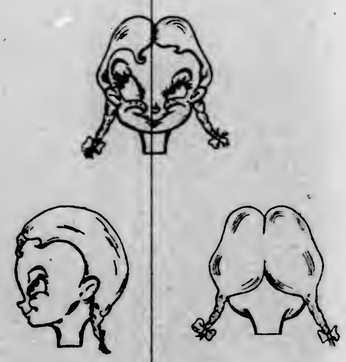
The ornamental design for a carpet or the like, as shown and described.

145,231
DESIGN FOR A WALL SUPPORTED RADIO
Wilfred L. Schrader, Hartville, Ohio
Application October 17, 1945, Serial No. 122,904
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a wall supported radio, as shown and described.

145,232
DESIGN FOR A DOLL HEAD
William Seidler and Otto Feuer, New York, N. Y.
Application December 13, 1945, Serial No. 124,697
Term of patent 3½ years
(Cl. D34—4)



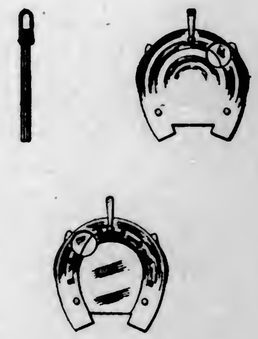
The ornamental design for a doll head, substantially as shown.

145,232
DESIGN FOR A DOLL HEAD
William Seidler and Otto Feuer, New York, N. Y.
Application December 13, 1945, Serial No. 124,698
Term of patent 3½ years
(Cl. D34—4)



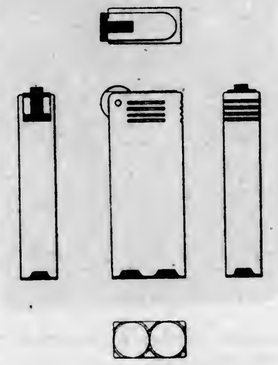
The ornamental design for a doll head, substantially as shown.

145,234
DESIGN FOR A POCKET KNIFE
Henry J. Smoleroff, New York, N. Y.
Application November 15, 1945, Serial No. 123,783
Term of patent 7 years
(Cl. D22—3)



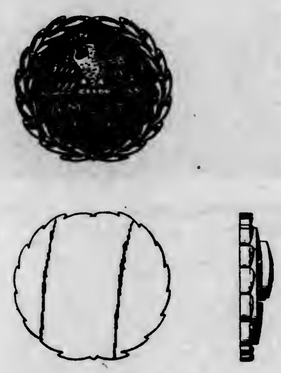
The ornamental design for a pocket knife, as shown.

145,235
DESIGN FOR A LIGHTER FOR CIGARETTES OR THE LIKE
Luke J. Strauss, Buffalo, N. Y., assignor of one-half to Louis Buchmann
Application September 10, 1945, Serial No. 121,978
Term of patent 14 years
(Cl. D48—27)



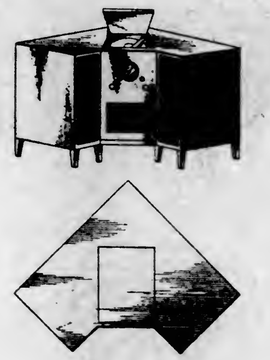
The ornamental design for a lighter for cigarettes or the like, as shown.

145,236
DESIGN FOR A JEWELRY FINDING
John E. Sutherlin, New Orleans, La.
Original design application December 18, 1945, Serial No. 124,830. Divided and this application January 8, 1946, Serial No. 125,364
Term of patent 14 years
(Cl. D45—1)



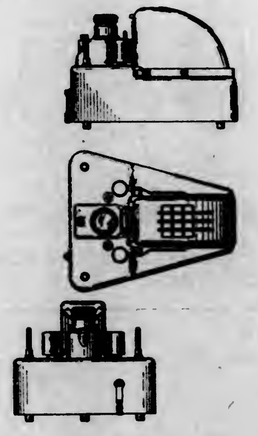
The ornamental design for a jewelry finding, substantially as shown.

145,237
DESIGN FOR A COMBINATION RADIO AND PHONOGRAPH CABINET
Cecil Barre Thorne, New York, N. Y.
Application August 25, 1945, Serial No. 121,627
Term of patent 14 years
(Cl. D56—4)



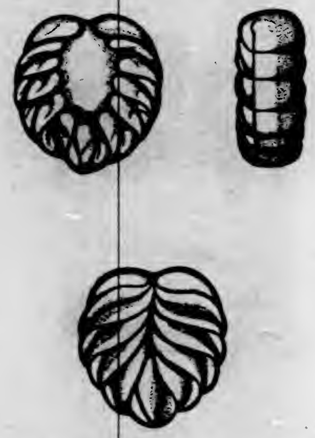
The ornamental design for a combination radio and phonograph cabinet, as shown and described.

145,238
DESIGN FOR A PROJECTOR
Jan Abraham Van den Brock, Ann Arbor, Mich., assignor to Argus, Incorporated, Ann Arbor, Mich., a corporation of Michigan
Application August 6, 1945, Serial No. 121,242
Term of patent 14 years
(Cl. D61—1)



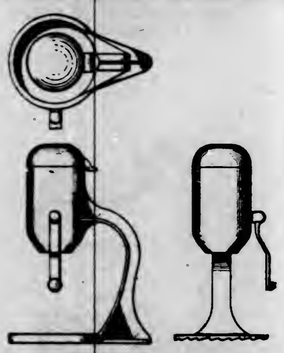
The ornamental design for a projector, substantially as shown and described.

145,239
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Fulco di Verdura, New York, N. Y., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application December 20, 1945, Serial No. 124,906
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a compact or similar article, as shown.

145,240
DESIGN FOR AN ICE CRUSHER OR THE LIKE
James E. Walsh, Burbank, Calif.
Application June 12, 1945, Serial No. 120,036
Term of patent 3½ years
(Cl. D44—29)



The ornamental design for an ice crusher or the like, substantially as shown and described.

145,241
DESIGN FOR A CARPET OR THE LIKE
Allon C. C. Wildgust, Philadelphia, Pa., assignor to Hardwick & Magee Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 7, 1946, Serial No. 125,339
Term of patent 7 years
(Cl. D92—4)



The ornamental design for a carpet or the like, as shown and described.

145,242
DESIGN FOR A CARPET OR THE LIKE
Allon C. C. Wildgust, Philadelphia, Pa., assignor to Hardwick & Magee Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 8, 1946, Serial No. 125,365
Term of patent 7 years
(Cl. D92—4)



The ornamental design for a carpet or the like, as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ace Novelty Klothes, Inc., New York, N. Y. Children's play suits and trousers. Serial No. 492,536; July 16. Class 39.

Ace Sample Card Co.: *See*—
Stein, Harry.

Alabama Feed Mills, Tuscaloosa, Ala. Horse and mule feed. Serial No. 491,305; July 16. Class 46.

Allen Corporation, The, Detroit, Mich. Corrosion resistant coating, in the nature of a paint. Serial No. 487,987; July 16. Class 16.

Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind. Parenteral solution of sulfonamides. Serial No. 497,689; July 16. Class 6.

Altyme Products, Inc., New York, N. Y. Hair lotion and hair treatment, etc. Serial No. 496,883; July 16. Class 6.

American Brake Shoe Company, New York, N. Y., and St. Louis, Mo. Tuyères, and blast furnace parts. Serial No. 493,996; July 16. Class 24.

American International Publications, Inc., New York, N. Y. Periodical. Serial No. 489,308; July 16. Class 38.

Armstrong Cork Company, Manheim Township, Lancaster, Pa. Corkboard insulation. Serial No. 493,943; July 16. Class 12.

Ashburn, Robie G., doing business as Granite Trailer Mfg. Co., Mount Airy, N. C. Trailers. Serial No. 491,748; July 16. Class 19.

Augat, Ernest H., Attleboro, Mass. Jewelry findings, and jewelry made wholly or partly of precious metal. Serial No. 493,097; July 16. Class 28.

Aviola Radio Corporation, Glendale, Calif. Radio receiving sets, electric record players, radio manual, etc. Serial No. 492,125; July 16. Class 21.

Ayerst, McKenna & Harrison Limited, Montreal, Quebec, Canada. Antibiotics. Serial No. 487,496; July 16. Class 6.

Babson Bros. Co., Chicago, Ill. Milking equipment. Serial No. 492,027; July 16. Class 23.

Baby Post Incorporated, New York, N. Y. Periodical. Serial No. 491,959; July 16. Class 38.

Baby Touch Hair Remover Company: *See*—
Davies, James O., Estate of.

Balch Flavor Company: *See*—
Balch, Gerald C.

Balch, Gerald C., doing business as Balch Flavor Company, Pittsburgh, Pa. Flavoring extracts for ice cream. Serial No. 484,774; July 16. Class 46.

Balcrank Inc., Cincinnati, Ohio. Lubrication equipment. Serial No. 484,337; July 16. Class 26.

Barr Electric Company: *See*—
Barr, William W.

Barr, William W., doing business as Barr Electric Company, Dallas, Tex. Electrical equipment and appliances. Serial No. 493,879; July 16. Class 21.

Bates, C. J., & Son, Chester, Conn. Hand-operated reels. Serial No. 474,107; July 16. Class 23.

Baton Rouge Rice Mill, Inc., Baton Rouge, La. Rice. Serial Nos. 484,007–8; July 16. Class 46.

Beamon, Amos R., doing business as Teknol Products Co., Los Angeles, Calif. Insecticides. Serial No. 492,890; July 16. Class 6.

Begley, George, Jr., doing business as Parfum Dalmora, Chicago, Ill. Perfume and cologne. Serial No. 481,048; July 16. Class 6.

Beisner, Henry H., New York, N. Y. Anaesthetic compound. Serial No. 493,315; July 16. Class 6.

Benfield, John D., Detroit, Mich. Electrical connectors. Serial No. 488,733; July 16. Class 21.

Berry, Irving, New York, N. Y. Polo shirts and sweaters. Serial No. 496,067; July 16. Class 39.

Black, M., Manufacturing Company: *See*—
Black, Max.

Black, Max, doing business as M. Black Manufacturing Company, Philadelphia, Pa. Photographic lighting equipment. Serial No. 492,354; July 16. Class 21.

Bonomo, Joe, doing business as Bra-Zooms Company, New York, N. Y. Brassières. Serial No. 490,227; July 16. Class 39.

Brass, Edward A., doing business as Southern Switch & Signal Company, Shreveport, La. Traffic signal lights and electric controllers therefor, etc. Serial No. 483,206; July 16. Class 21.

Bra-Zooms Company: *See*—
Bonomo, Joe.

Brown, Andrew, Company, Los Angeles, Calif. Metal paint primer. Serial No. 492,819; July 16. Class 16.

Burg, Fred, doing business as Burg Tool Mfg. Co., Los Angeles, Calif. Holders for drilling, boring, reaming, etc. tools. Serial No. 481,313; July 16. Class 23.

Burg Tool Mfg. Co.: *See*—
Burg, Fred.

Buttitta, Francesco, doing business as Buttitta Olive Oil Co., Woodlake, Calif. Olives, olive oil, and tomato sauce. Serial No. 495,860; July 16. Class 46.

Buttitta Olive Oil Co.: *See*—
Buttitta, Francesco.

Byck Bros. & Company, Incorporated, Louisville, Ky. Ladies' handbags. Serial No. 484,082; July 16. Class 3.

C. L. S. Products Corporation, Pittsburgh, Pa. Ointment. Serial No. 493,739; July 16. Class 6.

Carmichael, Thomas, doing business as Plycraft Products Mfg. Co., Centralia, Wash. Wheelbarrows, carts and wagons. Serial No. 470,406; July 16. Class 19.

Cavendish Trading Corp., New York, N. Y. Radios, and radio and phonograph combinations. Serial No. 494,653; July 16. Class 21.

Celluplastic Corporation, Newark, N. J. Plastic materials. Serial No. 492,683; July 16. Class 1.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Water aerators for attachment to faucets and other water outlets. Serial No. 493,479; July 16. Class 13.

Clapp, Otis, & Son, Inc., Boston, Mass. Hair dressing, shampoo, hand lotion, etc. Serial No. 479,833; July 16. Class 6.

Clay-Adams Company, Inc., New York, N. Y. Liquid coating material. Serial No. 478,030; July 16. Class 6.

Coastal Canning Corporation, Philadelphia, Pa. Canned dog food. Serial Nos. 495,575–82; July 16. Class 46.

Coastal Canning Corporation, Philadelphia, Pa. Canned dog food. Serial No. 495,584; July 16. Class 46.

Cohen, Goldman & Co. Inc., New York, N. Y. Men's, boys', and children's outer garments. Serial No. 494,392; July 16. Class 39.

Corning Glass Works, Corning, N. Y. Glass containers. Serial No. 453,716; July 16. Class 33.

Cullom & Ghertner Company, Nashville, Tenn. Sets of blank forms for record sheets etc. Serial No. 482,923; July 16. Class 37.

Darpro Chemical Corporation, Newark, N. J. Titanium compounds. Serial No. 485,814; July 16. Class 6.

Davies, James O., Estate of, doing business as Baby Touch Hair Remover Company, St. Louis, Mo. Shampoos. Serial No. 497,061; July 16. Class 6.

Dielectric Materials Company: *See*—
Isenberg, Hans D.

Dixie Cup Company, Chicago, Ill. Paper cups. Serial No. 497,785; July 16. Class 2.

Edward, E. E., Ltd., New York, N. Y. Ash receivers, humidors, cigar and cigarette cases. Serial No. 490,017; July 16. Class 8.

Efficiency Laboratories, New Orleans, La. Antiseptic powder. Serial No. 485,633; July 16. Class 6.

Electronic Mechanical Products Company, Atlantic City, N. J. Electronic-mechanical instrument. Serial No. 486,298; July 16. Class 26.

El Paraiso de Purua Fuentes Termales, S. A., Mexico City, Mexico. Mineral water and noncereal, maltless beverages. Serial No. 494,433; July 16. Class 45.

El Paraiso de Purua Fuentes Termales, S. A., Mexico City, Mexico. Mineral water and carbonated beverages. Serial No. 494,436; July 16. Class 45.

Endo Products Inc., New York, N. Y. Medicinal preparation. Serial No. 489,060; July 16. Class 6.

Energ-Ex Company, The: *See*—
Smidler, Reinhold A.

Engelke, William J., Fort Worth, Tex. Practice hand grenades. Serial No. 487,608; July 16. Class 9.

Falcon Chemical Co., Pittsburgh, Pa. Medicinal preparation. Serial No. 489,663; July 16. Class 6.

Farmers Friend Mineral Company: *See*—
Meyer, Otto W.

Federal Electric Company, Inc., of Texas, Chicago, Ill. Liquid plastic surfacing material. Serial No. 489,906; July 16. Class 16.

Federal Postal Employees Association, Denver, Colo. Periodical publication. Serial No. 494,047; July 16. Class 38.

Finch Acoustical Materials Company: *See*—
Finch, Harold L.

Finch, Harold L., doing business as Finch Acoustical Materials Company, Davenport, Iowa. Metallic clip-splines. Serial No. 494,266; July 16. Class 12.

Fine, Herbert D., doing business as Plasti-Kote Company, Cleveland, Ohio. Paint in ready-mixed form. Serial No. 494,049; July 16. Class 16.

Firestone Tire & Rubber Company, The, Akron, Ohio. Sectional air bags for tire repairing. Serial No. 453,597; July 16. Class 23.

Folger, J. A., & Company, Kansas City, Mo. Coffee. Serial No. 498,412; July 16. Class 46.

"42" Products, Ltd., doing business as Windsor House, Ltd., Los Angeles, Calif. Brushless shaving cream, lathering shaving cream, shaving soaps, etc. Serial No. 488,807; July 16. Class 4.

"42" Products, Ltd., doing business as Windsor House, Ltd., Los Angeles, Calif. Cologne, after shave powder, and after shave lotion. Serial No. 488,808; July 16. Class 6.

Fram Corporation, East Providence, R. I. Oil filters. Serial No. 488,401; July 16. Class 23.

Gailstyn Company, The, New York, N. Y. Glass perfume bottles, table glassware, glass beverage sets, etc. Serial No. 492,434; July 16. Class 33.

General Abrasive Company, Inc., Niagara Falls, N. Y. Fused alumina abrasives. Serial Nos. 483,474–6; July 16. Class 4.

General Aniline & Film Corporation, New York, N. Y. Cleansing compositions. Serial No. 494,554; July 16. Class 4.

Grand Union Company, The, New York, N. Y. Salad dressing, French dressing, and canned fruits, etc. Serial No. 483,177; July 16. Class 46.

Granite Trailer Mfg. Co.: *See*—
Ashburn, Robie G.

Gray-Mills Co., Evanston, Ill. General purpose solvent. Serial No. 486,249; July 16. Class 4.

Greene, Myles L., doing business as Myles L. Greene & Co., Fort Lauderdale, Fla. Fresh tomatoes. Serial No. 488,587; July 16. Class 46.

Greene, Myles L., & Co.: *See*—
Greene, Myles L.

Habitant Shops, Inc., Bay City, Mich. Trestle tables, card tables, corner tables, etc. Serial No. 490,306; July 16. Class 32.

Halladay-Thomas-Publishers, Union City, N. J. Reproductions of oil paintings. Serial No. 492,835; July 16. Class 38.

Haller, W. A., Company, Inc., Pittsburgh and Philadelphia, Pa. Potable, distilled spiritous beverages, particularly whiskey. Serial No. 496,308; July 16. Class 49.

Hasco Valve and Machine Co., Milwaukee, Wis. Piston type force pumps. Serial No. 493,957; July 16. Class 23.

Hayden Company, Kendallville, Ind. Lawn rake. Serial No. 494,502; July 16. Class 23.

Hely-Arc Model Equipment Co., Akron, Ohio. Wheels for model airplanes. Serial No. 490,065; July 16. Class 50.

Hollyvogue Ties, Los Angeles, Calif. Neckties. Serial No. 484,570; July 16. Class 39.

Hooven Letters, Incorporated, New York, N. Y. Writing paper and letterheads. Serial No. 493,355; July 16. Class 37.

Industrial Products Company: *See*—
Perkins, William W.

Infanta Knitting Mills, Philadelphia, Pa. Children's knitted sweaters and jackets. Serial No. 495,477; July 16. Class 39.

International Electric Fence Co.: *See*—
Turk, Richard H.

International Model Aircraft Limited, Merton, London, England. Toy model aircraft. Serial No. 481,111; July 16. Class 22.

Isenberg, Hans D., doing business as Dielectric Materials Company, Chicago, Ill. Electrical insulating materials. Serial No. 483,306; July 16. Class 21.

Jeffrey Company, The, assignee: *See*—
Jeffrey Manufacturing Company, The.

Jeffrey Manufacturing Company, The, Columbus, Ohio, now by change of name The Jeffrey Company, assignor to The Jeffrey Manufacturing Company. Crushers. Serial No. 481,791; July 16. Class 23.

Juvenile Health Products: *See*—
Ressinger, Paul M.

Kaplan, Lazare, & Sons, Inc., New York, N. Y. Diamonds. Serial Nos. 496,710–11; July 16. Class 28.

Kaplan, Lazare, & Sons, Inc., New York, N. Y. Diamonds. Serial Nos. 496,713–14; July 16. Class 28.

Kaplan, Lazare, & Sons, Inc., New York, N. Y. Diamonds. Serial Nos. 496,716–17; July 16. Class 28.

Kayser, Julius, & Co., New York, N. Y. Infants' and children's underwear. Serial No. 495,391; July 16. Class 39.

Kearfott Engineering Co., New York, N. Y. Rotary motion transmitting apparatus. Serial No. 484,300; July 16. Class 23.

Kellogg Switchboard and Supply Company, Chicago, Ill. Extensible electrical cords. Serial No. 487,422; July 16. Class 21.

Kellogg Switchboard and Supply Company, Chicago, Ill. Extensible electrical cords. Serial Nos. 495,745–6; July 16. Class 21.

Kelly, E. J., Company, Kalamazoo, Mich. Printing inks. Serial No. 494,612; July 16. Class 11.

Kendall Refining Company, Bradford, Pa. Thermoplastic resins. Serial No. 490,888; July 16. Class 1.

Knapway Devices, Inc., Kansas City, Mo. Vending machines. Serial No. 493,496; July 16. Class 23.

Knox Chemical Company, Chicago, Ill. Liquid cleaning fluids and grease removers. Serial No. 492,566; July 16. Class 4.

Labratest, Inc., Long Island City, N. Y. Cleansing powder. Serial No. 492,631; July 16. Class 4.

Lachman-Novasel Paper Co., New York, N. Y. Box and specialty papers. Serial No. 492,633; July 16. Class 37.

Lamb Electric Company, The, Kent, Ohio. Fractional horse power electrical motors. Serial No. 479,850; July 16. Class 21.

Lane Tobacco, Ltd., New York, N. Y. Pipes. Serial No. 494,081; July 16. Class 8.

Lange Canning Corporation, Eau Claire, Wis. Canned vegetables. Serial No. 498,153; July 16. Class 46.

Lankford, Joel E., Suffolk, Va. Stock powders used for horses, cattle, and hogs. Serial No. 493,783; July 16. Class 6.

Larré Laboratories, Denver, Colo. Vaginal diaphragm inserters. Serial No. 498,066; July 16. Class 44.

Lauer Manufacturing Company, Chicago, Ill. Stove mats and table mats having an asbestos back and a metal top. Serial No. 493,368; July 16. Class 50.

Leading Lady, doing business as Maier, Chicago, Ill. Facial cream. Serial No. 497,029; July 16. Class 6.

Le May, Robert L., Omaha, Nebr. Hand painted table glassware. Serial No. 490,952; July 16. Class 33.

Lentheric, Incorporated, New York, N. Y. Men's toiletries. Serial No. 496,645; July 16. Class 6.

Leonora Silk Underwear Co., New York, N. Y. Silk sleeping gowns and slips. Serial No. 495,894; July 16. Class 39.

Lero Textile Company: *See*—
Rosendorff, Leo.

Lexington Machinery & Development Co., Inc., Clifton, N. J. Electric toasters. Serial No. 493,971; July 16. Class 21.

Lindsborg Milling and Elevator Co., The: *See*—
Rodney Milling Company.

Lyon, Paul E., Seattle, Wash. Child's gocart. Serial No. 490,318; July 16. Class 19.

Madsen Iron Works, Huntington Park, Calif. Self-aligning pump valves and parts thereof. Serial No. 469,409; July 16. Class 13.

Maier: *See*—
Leading Lady.

Mallard, A. E.: *See*—
Mallard, Karl.

Mallard, Karl, doing business as A. E. Mallard, Detroit, Mich. Preparation for the treatment of gastric (stomach), ulcers, etc. Serial No. 457,225; July 16. Class 6.

Manor Record Co., Newark, N. J. Phonograph grooved records. Serial No. 486,796; July 16. Class 36.

Marco Importing Co., Chicago, Ill. Wines. Serial No. 468,523; July 16. Class 47.

Marshall-Wells Company, Duluth, Minn. Water systems. Serial No. 482,431; July 16. Class 23.

Master Electric Company, The, Dayton, Ohio. Electric motors and parts thereof and electric generators and parts thereof. Serial No. 471,266; July 16. Class 21.

Maxwell Company, The, Atlanta, Ga. Men's, boys', and juvenile sportswear. Serial No. 474,700; July 16. Class 39.

May, Jack, doing business as Sardeau, New York, N. Y. Perfume, lipsticks, rouge, etc. Serial No. 481,232; July 16. Class 6.

McArthur, Warren, Corporation, Bantam, Conn. Seats for use in aircraft and railroad cars. Serial No. 495,203; July 16. Class 19.

Meyer, Otto W., doing business as Farmers Friend Mineral Company, Napoleon, Ohio. Mineral feed for livestock, poultry, and fur bearing animals. Serial No. 496,255; July 16. Class 46.

Meyerson, Sidney, doing business as United Plastic Mfg. Co., New York, N. Y. Toy plastic coin banks. Serial No. 498,017; July 16. Class 22.

Mido Societe Anonyme, Bienne, Switzerland. Watches, watch casings, and parts of watches. Serial No. 490,201; July 16. Class 27.

Miles Shoes Incorporated: *See*—
Rosenberg, Murray M., Inc.

Millerd, Francis, and Company Limited, Vancouver, British Columbia, Canada. Canned fish. Serial No. 492,215; July 16. Class 46.

Mintz & Schwam, New York, N. Y. Mink coats. Serial No. 496,322; July 16. Class 39.

Monarch Leather Company, Chicago, Ill. Leather. Serial Nos. 478,138–40; July 16. Class 1.

Mussells, H. C., Company, Oakland and Berkeley, Calif. Finger rings, ear rings, pendants, etc. Serial No. 493,892; July 16. Class 28.

National Glove Company, The, Columbus, Ohio. Leather, cotton, and leather and cotton work gloves. Serial No. 491,495; July 16. Class 39.

National Trading Company, Inc., Hickory, N. C. Deep-freeze boxes. Serial No. 487,564; July 16. Class 31.

National Trading Company, Inc., Hickory, N. C. Electric refrigerators. Serial No. 487,566; July 16. Class 31.

Nixon, Stuart & Barker, Peoria, Ill. Medicament for the treatment of female disorders. Serial No. 480,957; July 16. Class 6.

Northwest Chemurgy Co-Operative, Wenatchee, Wash. Table syrup. Serial No. 497,677; July 16. Class 46.

Norton Products Company: *See*—
Waldow, Morris.

Oppenheim & McEwan Co., Inc., Albany, N. Y. Canned vegetables and tomato catchup. Serial No. 483,694; July 16. Class 46.

Parfum Dalmora: *See*—
Begley, George, Jr.

Parfum L'Orle, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 489,755; July 16. Class 6.

Park & Tilford, New York, N. Y. Rouges and lipsticks. Serial No. 498,168; July 16. Class 6.

Perkins, William W., doing business as Industrial Products Company, Wakefield, Mass. Graphite wads sold in ribbon form. Serial No. 487,521; July 16. Class 15.

Permutit Company, The, New York, N. Y. Industrial and/or municipal apparatus. Serial No. 459,013; July 16. Class 23.

Peterman, William, Inc., Newark, N. J. Insecticides. Serial Nos. 490,208–9; July 16. Class 6.

Pettress, Lillian, doing business as Solar Hair and Scalp Co., New York, N. Y. Hair grower, scalp cream, and hair dressing. Serial No. 487,295; July 16. Class 6.

Pied Piper Books Inc., New York, N. Y. Children's books. Serial No. 491,362; July 16. Class 38.

Pitman-Moore Co.: *See*—
Allied Laboratories, Inc.

Plasti-Kote Company: *See*—
Fine, Herbert D.

Plycraft Products Mfg. Co.: *See*—
Carmichael, Thomas.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Wheel barrows, baby carriages, and bicycles. Serial No. 488,422; July 16. Class 19.

Prill, Edward, & Sons, assignor to Prill Silver Company, Inc., New York, N. Y. Hollow ware, flatware, and silverware. Serial No. 495,500; July 16. Class 28.

Prill Silver Company, Inc.: *See*—
Prill, Edward, & Sons.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. Serial No. 488,124; July 16. Class 46.

Queen City Cutlery Company, Titusville, Pa. Pen knives, shears, kitchen knives, etc. Serial No. 490,447; July 16. Class 28.

Red Devil Tools, Irvington, N. J. Electric fencers, electric paint conditioners, electric paint mixers, etc. Serial No. 490,398; July 16. Class 21.

Ressinger, Paul M., doing business as Juvenile Health Products, Chicago, Ill. Gocarts. Serial No. 464,182; July 16. Class 19.

Revoc, Inc., New York, N. Y. Wrist, pocket, and lapel watches and clocks. Serial No. 488,373; July 16. Class 27.

Revoc, Inc., New York, N. Y. Bobby pins, hairpins, sachet bags, etc. Serial No. 488,375; July 16. Class 40.

Richkraft Company, The, Chicago, Ill. Building paper. Serial Nos. 493,828–9; July 16. Class 12.

Richmond-Phillips, New York, N. Y. Toilet waters, colognes, perfumes, etc. Serial No. 496,572; July 16. Class 6.

Roditi, D., & Sons, Inc., New York, N. Y. Pocketbooks, brief cases, portfolios, etc. Serial No. 498,081; July 16. Class 3.

Rodney Milling Company, doing business as The Lindsborg Milling and Elevator Co., Lindsborg, Kans. Wheat flour. Serial No. 481,912; July 16. Class 46.

Roerig, J. B., and Company, Chicago, Ill. Vitamin preparation. Serial No. 490,701; July 16. Class 6.

Rolley, Charles A., doing business as Rolley Perfumes, assignor to Rolley, Inc., San Francisco, Calif. Perfumes, colognes, perfumed powders, etc. Serial No. 495,100; July 16. Class 6.

Rolley, Inc., assignee: *See*—
Rolley, Charles A.

Rolley Perfumes: *See*—
Rolley, Charles A.

Rosenberg, Murray M., Inc., New York, N. Y., now by change of name Miles Shoes Incorporated. Shoes, slippers, and boots. Serial No. 492,793; July 16. Class 39.

Rosendorff, Leo, doing business as Lero Textile Company, New York, N. Y. Women's and misses' slips, nightgowns, pajamas, etc. Serial No. 496,276; July 16. Class 39.

Rothshire Coats, New York, N. Y. Coats. Serial No. 492,096; July 16. Class 39.

Royal Tobacco Corporation, New York, N. Y. Cigarettes. Serial No. 479,147; July 16. Class 17.

Rueda & Co., Buenos Aires, Argentina. Garments. Serial No. 489,015; July 16. Class 39.

Russell & Stoll Company, Inc., New York, N. Y. Electrical supervisory alarm signalling apparatus. Serial No. 485,887; July 16. Class 21.

Santa Maria Distributors, Santa Maria, Calif. Fresh vegetables. Serial Nos. 495,696–7; July 16. Class 46.

Sardeau: *See*—
May, Jack.

Schaeffer, Charles, doing business as Schaeffer's, Cleveland, Ohio. Watch bracelets. Serial No. 496,836; July 16. Class 28.

Schaeffer's: *See*—
Schaeffer, Charles.

Shearer's Dried Milk Products Corporation, Philadelphia, Pa. Swine and poultry feeds. Serial No. 493,852; July 16. Class 46.

Shirts, Inc., New York, N. Y. Men's outer shirts. Serial No. 495,766; July 16. Class 39.

Shur-Antenna-Mount, Inc., Sea Cliff, N. Y. Transmitting and receiving radio antennas. Serial No. 490,709; July 16. Class 21.

Siegel, A. L., Co., Inc., New York, N. Y. Bathroom accessories made of plastic film. Serial No. 496,109; July 16. Class 13.

Singer, Arthur A., New York, N. Y. Hair brushes. Serial No. 495,518; July 16. Class 29.

Smidler, Reinhold A., doing business as Energ-Ex Company, The, Chicago, Ill. Tablets containing vitamins and minerals. Serial No. 496,993; July 16. Class 6.

Smith, A. O., Corporation, Milwaukee, Wis. Electric welding apparatus. Serial No. 471,762; July 16. Class 21.

Smith-Alsop Paint and Varnish Company, The, Terre Haute, Ind. Paint and varnish remover. Serial No. 478,522; July 16. Class 16.

Smith, Travis O., Kansas City, Mo. Stands and brackets for supporting bags to receive waste materials. Serial No. 494,763; July 16. Class 13.

Solar Hair and Scalp Co.: *See*—
Pettress, Lillian.

Solomon Bros. Co., New York, N. Y. Men's and women's sport jackets and shirts. Serial No. 497,050; July 16. Class 39.

Southern Switch & Signal Company: *See*—
Brass, Edward A.

Squibb, E. R., & Sons, New York, N. Y. Antisera. Serial No. 497,424; July 16. Class 6.

Stamping Service, Inc., Detroit, Mich. Unitary combination mechanical brush and dustpan. Serial No. 493,843; July 16. Class 23.

Stanley Industries: *See*—
Stanley, J. A.

Stanley, J. A., doing business as Stanley Industries, Seattle, Wash. Powder for killing fleas, lice, and ticks, etc. Serial No. 498,178; July 16. Class 6.

Stein, Harry, doing business as Ace Sample Card Co., New York, N. Y. Textile sample cards. Serial No. 492,528; July 16. Class 50.

Stewart, Robert S., doing business as Western Distributing Company, Kansas City, Mo. Chemical liquid rust, scale, and grease remover and welder. Serial No. 496,112; July 16. Class 6.

Stokes Bros. Manufacturing Co., Freehold, N. J. Rasps and files. Serial No. 488,288; July 16. Class 23.

Stone, George A., doing business as Tubular Weaving Company, Columbus, Ohio. Fibrous glass insulating materials. Serial No. 469,313; July 16. Class 12.

Sun Oil Company, Philadelphia, Pa. Lubricating oils. Serial Nos. 494,372–5; July 16. Class 15.

Tanglefoot Company, The, Grand Rapids, Mich. Electrically heated atomizer. Serial No. 487,218; July 16. Class 21.

Teknol Products Co.: *See*—
Beamon, Amos R.

Textileather Corporation, Toledo, Ohio. Treated material in the nature of artificial leather. Serial No. 485,705; July 16. Class 50.

Thermo Electric Manufacturing Co., Dubuque, Iowa. Electric interval timing switches. Serial No. 487,016; July 16. Class 21.

Thompson Products, Inc., Cleveland, Ohio. Engine valves and/or valve rotating assemblies. Serial No. 488,130; July 16. Class 23.

Titan Safety Shoe Co., Spencer, Mass. Leather and rubber shoes. Serial No. 494,414; July 16. Class 39.

Torngren, C. W., Co., Somerville, Mass. Semi-fabricated sheet metal. Serial No. 489,425; July 16. Class 14.

Toy Town Corporation, New York, N. Y. Plastic toy banks. Serial No. 491,180; July 16. Class 22.

Tubular Weaving Company: *See*—
Stone, George A.

Tupper, Earl S., assignor to Tupper Plastics, Inc., Farnumsville, Mass. Molded plastic cocktail spoons, forks, spears, etc. Serial No. 492,405; July 16. Class 23.

Tupper Plastics, Inc., assignee: *See*—
Tupper, Earl S.

Turk, Richard H., doing business as International Electric Fence Co., Chicago, Ill. Electric fences. Serial No. 487,342; July 16. Class 21.

United Plastic Mfg. Co.: *See*—
Meyerson, Sidney.

United States Time Corporation, The, Waterbury, Conn. Watches and clocks, both cased and uncased, and parts therefor. Serial No. 493,575; July 16. Class 27.

U. S. Vitamin Corporation, New York, N. Y. Brand of protein hydrolysates, etc. Serial No. 497,140; July 16. Class 6.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Magnesium aluminum silicate gel, etc. Serial No. 497,149; July 16. Class 6.

Vendo Company, The, Kansas City, Mo. Cook stoves. Serial No. 496,001; July 16. Class 34.
Vital Foods Corporation, Evanston, Ill. Medicinal preparation. Serial No. 495,115; July 16. Class 6.
Waldow, Morris, doing business as Norton Products Company, Los Angeles, Calif. Fluids for filling cigar and cigarette lighters. Serial No. 491,691; July 16. Class 6.
Wales, Nathaniel B., Jr., New York, N. Y. Co-axial contra-rotating aircraft. Serial No. 460,639; July 16. Class 19.
Wallace, Burton & Davis Co., Inc., New York, N. Y. Dessert pudding powders. Serial No. 498,098; July 16. Class 46.
Wallace & Tiernan Co., Inc., Belleville, N. J. Combined portable pump and filter units. Serial No. 489,839; July 16. Class 81.
Western Distributing Company: *See*—
Stewart, Robert S.
Windsor House, Ltd.: *See*—
"42" Products, Ltd.
Wolfe, H. Lee, Company, Chicago, Ill. Soap. Serial No. 492,756; July 16. Class 4.
Worthington Products Co., Inc., Arlington, Va. Insecticides. Serial No. 489,306; July 16. Class 6.
Yankee Metal Products Corp., Norwalk, Conn. Electric lamps. Serial No. 492,879; July 16. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams, H. A., & Co., Inc., New York, N. Y. Handbags, and purses. 422,391; July 16. Class 3.
Adams, H. A., & Co., Inc., New York, N. Y. Handbags, purses, and key cases. 422,392; July 16. Class 3.
Admiral Cosmetics, Inc., New York, N. Y. After shave lotion. 422,377; July 16; Serial No. 493,159; published Apr. 16, 1946. Class 6.
Affiliated Products, Inc., Jersey City, N. J. Colognes. 422,293; July 16; Serial No. 464,635; published Apr. 9, 1946. Class 6.
Ahlgrens, F., Tekniska Fabrik Aktiebolag: *See*—
Aktiebolaget Pastill.
Aktiebolaget Pastill, Gefle, Sweden, to F. Ahlgrens Tekniska Fabrik Aktiebolag, Gavle, Sweden. Confections. 211,943; renewed Apr. 20, 1946. O. G. July 16. Class 46.
Allied Chemical & Dye Corporation: *See*—
Barrett Manufacturing Company.
American Aniline Products, Inc., New York, N. Y. Vat dyes having particular value for printing rayons. 422,298; July 16; Serial No. 477,990; published Apr. 23, 1946. Class 6.
American Manganese Steel Company, Chicago and Chicago Heights, Ill., New York, N. Y., New Castle, Del., Denver, Colo., St. Louis, Mo., Los Angeles and Oakland, Calif., to The Fahralloy Company, Harvey, Ill. Heat-resisting and corrosion-resisting and oxidation-resisting alloys. 213,922; renewed June 8, 1946. O. G. July 16. Class 14.
Anderson, Wm., Textile Mfg. Co. Inc., to Wm. Anderson Textile Mfg. Co. Ltd., New York, N. Y. Cotton fabrics and cotton and silk fabrics. 209,938; renewed Mar. 2, 1946. O. G. July 16. Class 42.
Anderson, Wm., Textile Mfg. Co. Ltd.: *See*—
Anderson, Wm., Textile Mfg. Co. Inc.
Apothecaries House: *See*—
Brennan, Edward J.
Appleton Company, Lowell, Mass., to Appleton Company, Anderson, S. C. Cotton piece goods. 217,188; renewed Aug. 24, 1946. O. G. July 16. Class 42.
Archer-Taylor Co.: *See*—
Archer-Taylor Drug Co.
Archer-Taylor Drug Co., also doing business as Archer-Taylor Co., Wichita, Kans. Ointment used in the treatment of burns and other wounds. 422,321; July 16; Serial No. 488,724; published Apr. 16, 1946. Class 6.
Arden, Elizabeth: *See*—
Lewis, Florence N.
Arden, Elizabeth, Sales Corporation: *See*—
Lewis, Florence N.
Associated Products, Inc., Chicago, Ill. Face powder, face makeup in liquid form, creams for the hands and face, etc. 422,328; July 16; Serial No. 489,380; published Apr. 16, 1946. Class 6.
Associated Products, Inc., Chicago, Ill. Face powder, face makeup, creams, etc. 422,372; July 16; Serial No. 492,757; published Apr. 9, 1946. Class 6.
Associated Products, Inc., Chicago, Ill. Face powder, face make-up in liquid form, creams for the hands and face, etc. 422,373; July 16; Serial No. 492,814; published Apr. 16, 1946. Class 6.
Atlantic Refining Company, The, Philadelphia, Pa. Liquid dry cleaner. 422,366; July 16; Serial No. 491,957; published Apr. 23, 1946. Class 4.
Bachman, Walter S., doing business as Q A C Company, Los Angeles, Calif. Sterilizing material. 422,323–4; July 16; Serial Nos. 488,884–5; published Apr. 9, 1946. Class 6.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Ready tar and felt roofing. 52,691; re-renewed May 15, 1946. O. G. July 16. Class 12.
Bates, Joseph J., Kansas City, Mo. Herb tea. 422,314; July 16; Serial No. 484,998; published Apr. 16, 1946. Class 6.
Beau Brummel Ties, Inc., assignee: *See*—
Purex Products, Incorporated.
Beck, Jacob L.: *See*—
Fortuna Broom Company.
Beckley-Cardy Company, Chicago, Ill. Blackboards. 213,088; renewed May 18, 1946. O. G. July 16. Class 50.
Beckley-Cardy Company, Chicago, Ill. Blackboards. 216,491; renewed Aug. 10, 1946. O. G. July 16. Class 50.
Belding Heminway Company: *See*—
Klein Brothers.
Blake, Irene: *See*—
Blake, Irene, Cosmetics, Inc.
Blake, Irene, Cosmetics, Inc., also doing business as Irene Blake, New York, N. Y., assignor to Evelyn Westall Company. Perfume, cologne and dusting powder. 422,303; July 16; Serial No. 482,132; published Aug. 14, 1945. Class 6.
Bluefield Coal & Coke Company, Bluefield, W. Va. Coal. 216,632; renewed Aug. 17, 1946. O. G. July 16. Class 1.
Bluefield Coal & Coke Company, Bluefield, W. Va. Coal. 217,326; renewed Aug. 31, 1946. O. G. July 16. Class 1.
Borden Company, The: *See*—
Borden's Condensed Milk Co.
Borden's Condensed Milk Co., Jersey City, N. J., to The Borden Company, New York, N. Y. Milk, condensed milk, cream, etc. 55,233; re-renewed Aug. 7, 1946. O. G. July 16. Class 46.
Boston Rubber Shoe Company, Boston and Malden, Mass., to United States Rubber Company, New York, N. Y. Rubber shoes. 28,076; re-renewed Apr. 7, 1946. O. G. July 16. Class 39.
Boswell Oil Company: *See*—
Boswell, Paul W.
Boswell, Paul W., doing business as Boswell Oil Company, Cincinnati, Ohio. Gasoline, naphtha, kerosene, etc. 216,266; renewed Aug. 10, 1946. O. G. July 16. Class 15.
Bourjois, Inc.: *See*—
Woodworth, C. B., Sons Co., The
Bourjois, Inc., New York, N. Y. Perfume, toilet water, talcum powder, face powder, etc. 217,093; renewed Aug. 24, 1946. O. G. July 16. Class 6.
Brandwein, A., & Co., Chicago, Ill. Mattresses. 212,747; renewed May 11, 1946. O. G. July 16. Class 32.
Brennan, Edward J., doing business as Apothecaries House, Hasbrouck Heights, N. J. Antiacid for relief of acid indigestion. 422,344; July 16; Serial No. 490,871; published Apr. 9, 1946. Class 6.
Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Cleaning, scouring, and polishing wads, pads, rolls, etc. 215,339; renewed July 13, 1946. O. G. July 16. Class 4.
Briny Marlin Coat & Suit Co.: *See*—
Levitch, David.
Brook, Jonas, & Bros., Limited, Meltham, England, to Jonas Brook & Bros. (U. S. A.), Inc., Newark, N. J. Sewing cotton and thread. 52,148; re-renewed May 1, 1946. O. G. July 16. Class 43.
Brook, Jonas, & Bros. (U. S. A.), Inc.: *See*—
Brook, Jonas, & Bros., Limited.
Buckwalter, Sara P., doing business as Sari Cosmetics, Grosse Pointe, Mich. Cosmetics. 422,315; July 16; Serial No. 486,661; published Apr. 16, 1946. Class 6.
Bucyrus Company, to Bucyrus-Erie Company, South Milwaukee, Wis. Electric-lighting plants, motor generators, cables, etc. 215,340; renewed July 13, 1946. O. G. July 16. Class 21.
Bucyrus-Erie Company: *See*—
Bucyrus Company.
Burnham Soluble Iodine Company, Auburndale, Mass. Water purification tablets. 422,297; July 16; Serial No. 477,966; published Apr. 9, 1946. Class 6.
Burt, Charles M., doing business as Charles M. Burt Company, Biloxi, Miss. Shaving soap. 422,301; July 16; Serial No. 480,945; published Apr. 9, 1946. Class 4.
Burt, Charles M., Company: *See*—
Burt, Charles M.
Carolina Baking Company, Charlotte, N. C., to Columbia Baking Company, Wilmington, Del. Bread. 216,875; renewed Aug. 24, 1946. O. G. July 16. Class 46.
Catts, David D., doing business as Retort Pharmaceutical Co., assignor to Retort Pharmaceutical Co., Inc., Long Island City, N. Y. General disinfectant. 422,347; July 16; Serial No. 490,926; published Apr. 9, 1946. Class 6.
Chanel, Inc., New York, N. Y. Perfume, toilet water, eau de cologne, etc. 422,335; July 16; Serial No. 490,231; published Apr. 16, 1946. Class 6.

Chemdrug Corporation, The, New York, N. Y. Perfumes. 422,364; July 16; Serial No. 491,910; published Apr. 16, 1946. Class 6.
Chemical Manufacturing & Distributing Company, Easton, Pa. Washing compounds, powdered hand cleaners, paint and wall cleaners, etc. 422,317; July 16; Serial No. 487,352; published Apr. 9, 1946. Class 4.
Clark Mile-End Spool Cotton Co., The, to The Clark Thread Company, Newark, N. J. Cotton thread. 52,355; re-renewed May 8, 1946. O. G. July 16. Class 43.
Clark Mile-End Spool Cotton Co., The, to The Clark Thread Company, Newark, N. J. Darning-cotton, crochet-cotton, and cotton thread. 54,324; re-renewed June 26, 1946. O. G. July 16. Class 43.
Clark Thread Company, The: *See*—
Clark Mile-End Spool Cotton Co., The.
Coats, J. & P., Limited, Paisley, Scotland, to J. & P. Coats (R. I.) Inc., Pawtucket, R. I. Sewing cotton. 53,250; re-renewed May 29, 1946. O. G. July 16. Class 43.
Coats, J. & P., (R. I.) Inc.: *See*—
Coats, J. & P., Limited.
Colloidal Products Corporation: *See*—
Hercules Glue Company, Ltd.
Columbia Baking Company: *See*—
Carolina Baking Company.
Commonwealth Shoe and Leather Company: *See*—
Commonwealth Shoe and Leather Company, The.
Commonwealth Shoe and Leather Company, The, Boston, to Commonwealth Shoe and Leather Company, Whitman, Mass. Leather boots and shoes for men and women. 55,669; re-renewed Aug. 21, 1946. O. G. July 16. Class 39.
Commonwealth Shoe and Leather Company, The, Boston, to Commonwealth Shoe and Leather Company, Whitman, Mass. Leather boots and shoes for men, women, and youths. 55,734; re-renewed Aug. 21, 1946. O. G. July 16. Class 39.
Cosmex Corp., New York, N. Y. Skin lotion or wash adapted to remove stale cosmetics and impurities from the skin. 422,313; July 16; Serial No. 484,881; published Apr. 16, 1946. Class 6.
Cozone Laboratories, Inc., Panama City, Fla. Pharmaceutical preparation. 422,360; July 16; Serial No. 491,752; published Apr. 16, 1946. Class 6.
Crouse-Hinds Company, Syracuse, N. Y. Electric-conduit fittings. 50,462–3; re-renewed Mar. 20, 1946. O. G. July 16. Class 21.
Delex Products: *See*—
Peritz, Ernst.
Desitin Chemical Co., to Desitin Chemicals Co., Providence, R. I. Medical compound (ointment). 216,627–8; renewed Aug. 17, 1946. O. G. July 16. Class 6.
Desitin Chemicals Co.: *See*—
Desitin Chemical Co.
Diamond Wheel Industries, Inc., Chicago, Ill. Diamond abrasive wheels. 422,326; July 16; Serial No. 489,211; published Apr. 16, 1946. Class 4.
Dodge & Olcott, Inc., New York, N. Y. Pyrenone. 422,355; July 16; Serial No. 491,556; published Apr. 16, 1946. Class 6.
Dohrmann Hotel Supply Co., San Francisco, Calif. Silver polish. 422,309; July 16; Serial No. 484,121; published Apr. 16, 1946. Class 4.
Duffy-Mott Company, Inc., New York, N. Y. Vinegars. 216,448; renewed Aug. 10, 1946. O. G. July 16. Class 46.
Dunham Manufacturing Company, New York, N. Y., to The Glidden Company, Cleveland, Ohio. Prepared cocoanut. 53,460; re-renewed June 5, 1946. O. G. July 16. Class 46.
Dunlap Company, The: *See*—
Dunlap, Horace M.
Dunlap, Horace M., doing business as The Dunlap Company, Seattle, Wash. Wall cleaner. 422,384; July 16. Class 4.
Durkee, E. R., & Co., New York, N. Y., to The Glidden Company, Cleveland, Ohio. Salad-dressing and sauces. 55,239; re-renewed Aug. 7, 1946. O. G. July 16. Class 46.
Eagle Pencil Company, to Eagle Pencil Company, New York, N. Y. Lead-pencils. 51,020; re-renewed Apr. 3, 1946. O. G. July 16. Class 37.
Endo Products, Inc.: *See*—
Intravenous Products Company of America, Inc.
Endo Products Inc., New York, N. Y. Medicinal preparation used for female disorders. 422,339; July 16; Serial No. 490,530; published Apr. 16, 1946. Class 6.
Ethyl Corporation: *See*—
Ethyl Gasoline Corporation.
Ethyl Gasoline Corporation, Moraine City, Dayton, Ohio, to Ethyl Corporation, New York, N. Y. Antiknock compound. 215,282; renewed July 13, 1946. O. G. July 16. Class 6.
Ethyl Gasoline Corporation, Moraine City, Dayton, Ohio, to Ethyl Corporation, New York, N. Y. Motor fuel oils. 216,023; renewed Aug. 3, 1946. O. G. July 16. Class 15.
Ethyl Gasoline Corporation, Moraine City, Dayton, Ohio, to Ethyl Corporation, New York, N. Y. Motor fuel oils. 216,141; renewed Aug. 3, 1946. O. G. July 16. Class 15.
Eureka Fire Hose Company, Jersey City, N. J., to United States Rubber Company, New York, N. Y. Fabric hose. 53,167–8; re-renewed May 29, 1946. O. G. July 16. Class 35.
Eversharp, Inc.: *See*—
Wahl Company, The.
Fahralloy Company, The: *See*—
American Manganese Steel Company.
Folmer Graflex Corporation, The, Rochester, N. Y., now by change of name Graflex, Inc. Photographic film and plate holders. 422,382; July 16. Class 26.
Fortuna Broom Company, to Jacob L. Beck, doing business as Fortuna Broom Company, Beeville, Tex. Brooms. 216,004; renewed Aug. 3, 1946. O. G. July 16. Class 29.
Foster-McClellan Company, Buffalo, N. Y. Ointments. 55,606; re-renewed Aug. 21, 1946. O. G. July 16. Class 6.
Fromm, F. H., & Co.: *See*—
Fromm, Frank H.
Fromm, Frank H., doing business as F. H. Fromm & Co., Philadelphia, Pa., to Frank H. Fromm, New York, N. Y. Matches. 209,806; renewed Mar. 2, 1946. O. G. July 16. Class 9.
Fulton Company, The, to The Fulton Syphon Company, Knoxville, Tenn. Heat-regulators. 53,173; re-renewed May 29, 1946. O. G. July 16. Class 34.
Fulton Syphon Company, The: *See*—
Fulton Company, The.
Funk & Wagnalls Company, to Funk & Wagnalls Company, New York, N. Y. Dictionaries, atlases, and cyclopedias. 55,065; re-renewed Aug. 7, 1946. O. G. July 16. Class 38.
Gavitt Loan and Investment Company, The: *See*—
Gavitt, W. W., Medical Co.
Gavitt, W. W., Medical Co., to The Gavitt Loan and Investment Company, Topeka, Kans. Medicine for the purification of the blood, etc. 51,253; re-renewed Apr. 10, 1946. O. G. July 16. Class 6.
General Abrasive Company, Inc., Niagara Falls, N. Y. Calcined alumina material. 422,386; July 16. Class 4.
General Chemical Company, New York, N. Y. Heavy chemicals, also known as commercial or technical chemicals. 215,759; renewed July 27, 1946. O. G. July 16. Class 6.
General Drug Company, New York, N. Y. Aromatic preparation used as a perfume. 422,340; July 16; Serial No. 490,651; published Apr. 9, 1946. Class 6.
Glidden Company, The: *See*—
Dunham Manufacturing Company.
Durkee, E. R., & Co.
Globe-Wernicke Co., The, Norwood, to The Globe-Wernicke Co., Norwood, Cincinnati, Ohio. Angular celluloid tab guides. 214,265; renewed June 15, 1946. O. G. July 16. Class 37.
Golden Arrow Toiletries, New York, N. Y. Shaving cream, facial and bath soaps. 422,343; July 16; Serial No. 490,812; published Apr. 16, 1946. Class 4.
Goodrich, B. F., Chemical Company: *See*—
Goodrich, B. F., Company, The.
Goodrich, B. F., Company, The, doing business as B. F. Goodrich Chemical Company, a division of The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Rubber chemicals, such as vulcanizing agents. 422,356; July 16; Serial No. 491,563; published Apr. 16, 1946. Class 6.
Gorham Rubber Company, San Francisco, Calif., to United States Rubber Company, New York, N. Y. Rubber packing. 52,268; re-renewed May 8, 1946. O. G. July 16. Class 35.
Graflex, Inc.: *See*—
Folmer Graflex Corporation, The.
Granese, A., Boston, Mass. Hair and scalp preparations. 422,295; July 16; Serial No. 473,601; published Apr. 23, 1946. Class 6.
Griffith Laboratories, Inc., The, Chicago, Ill. Insecticide. 422,379; July 16; Serial No. 494,903; published Apr. 9, 1946. Class 6.
Griffon, Alfred L.: *See*—
Silberstein, Albert L.
Griffon Cutlery Works: *See*—
Silberstein, Albert L.
Grosvenor, J. M., & Co., Boston, Mass., to Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. 51,989; re-renewed May 1, 1946. O. G. July 16. Class 6.
Grosvenor, J. M., & Co., Boston, Mass., to Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. 52,140; re-renewed May 1, 1946. O. G. July 16. Class 6.
Hansen Glove Corporation: *See*—
Hansen, O. C., Manufacturing Co.
Hansen, O. C., Manufacturing Company.
Hansen, O. C., Manufacturing Co., to Hansen Glove Corporation, Milwaukee, Wis. Inside gloves of knitted, netted, or textile fabrics. 216,942; renewed Aug. 24, 1946. O. G. July 16. Class 39.
Hansen, O. C., Manufacturing Company, to Hansen Glove Corporation, Milwaukee, Wis. Gloves constructed of leather. 216,928; renewed Aug. 24, 1946. O. G. July 16. Class 39.
Harrison, Monroe, Chicago, Ill. Lipstick, rouge, face powder, etc. 422,308; July 16; Serial No. 484,093; published Apr. 9, 1946. Class 6.
Haxton Canning Company, Inc.: *See*—
Stittville Canning Company.

Hercules Glue Company, Ltd., doing business as Colloidal Products Corporation, San Francisco, Calif. Spreaders and deposit builders for insecticides, etc. 422,385; July 16. Class 6.

Hercules Powder Company, Wilmington, Del. High-boiling solvent. 216,366; renewed Aug. 10, 1946. O. G. July 16. Class 6.

Hercules Powder Company, Wilmington, Del. High-boiling solvent for gums and cellulose esters. 216,826; renewed Aug. 24, 1946. O. G. July 16. Class 6.

Hercules Powder Company, Wilmington, Del. Nitrocellulose. 216,919–20; renewed Aug. 24, 1946. O. G. July 16. Class 6.

Hercules Powder Company, Wilmington, Del. Dynamite. 422,333; July 16; Serial No. 490,190; published Apr. 23, 1946. Class 9.

Hermetite Corporation, Nutley, N. J. Chemical compound for impregnating or coating paper, fabrics, leather, etc. 422,334; July 16; Serial No. 490,191; published Apr. 9, 1946. Class 6.

Hilco Incorporated, St. Louis, Mo. Fluids for use in treating the human hair. 422,376; July 16; Serial No. 493,122; published Apr. 23, 1946. Class 6.

Hinde & Dauch Paper Co., The, Sandusky and Delphos, Ohio, Chicago, Ill., Philadelphia, Pa., New York, N. Y., Muncie, Ind., Gloucester, N. J., and Toronto, Ontario, Canada, to The Hinde & Dauch Paper Co., Sandusky, Ohio. Cartons, boxes, shipping envelopes, etc. 216,539; renewed Aug. 10, 1946. O. G. July 16. Class 2.

Horst, E. Clemens, Company, San Francisco, Calif. Hops. 216,592; renewed Aug. 17, 1946. O. G. July 16. Class 1.

Hovden Food Products Corporation: *See*—
Hovden, K., Co.

Hovden, K., Co., to Hovden Food Products Corporation, Monterey, Calif. Canned fish. 217,530; renewed Aug. 31, 1946. O. G. July 16. Class 46.

Hoyt, Charles L., doing business as Snap Fly Dope Company, to Lottie C. Hoyt, Springfield, Mass. Insect repellant. 216,773; renewed Aug. 17, 1946. O. G. July 16. Class 6.

Hoyt, Lottie C.: *See*—
Hoyt, Charles L.

Hydroponic Chemical Company, Inc., New York, N. Y. Chemical used for the generation of a greenhouse fumigant. 422,367; July 16; Serial No. 492,269; published Apr. 9, 1946. Class 6.

International Chemicals: *See*—
Thompson, W. Basil.

International Shoe Company: *See*—
Peters Shoe Company.

Intravenous Products Company of America, Inc., New York, to Endo Products, Inc., Richmond Hill, N. Y. Intravenous solutions. 213,724; renewed June 1, 1946. O. G. July 16. Class 6.

Iroquois Beverage Corporation: *See*—
Iroquois Brewing Co.

Iroquois Brewing Co., to Iroquois Beverage Corporation, Buffalo, N. Y. Lager-beer. 55,875; re-renewed Aug. 21, 1946. O. G. July 16. Class 48.

Irresistible, Inc., New York, N. Y. Hair dressing. 422,332; July 16; Serial No. 490,120; published Apr. 23, 1946. Class 6.

Jackson, Thomas, & Son Co., The, Reading, Pa. Cordage. 422,388; July 16. Class 7.

Jeps Products Co.: *See*—
Smith, James E.

Jeurelle, Inc., New York, N. Y. Leg make-up. 422,316; July 16; Serial No. 486,902; published Dec. 4, 1945. Class 6.

Johnson & Johnson: *See*—
Grosvenor, J. M., & Co.
Lee, J. Ellwood, Company.
Van Horn & Sawtell.

Johnson & Johnson, New Brunswick, N. J. Adhesive plasters. 52,955; re-renewed May 22, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Felted absorbent cotton. 52,956–7; re-renewed May 22, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Suspensory bandages. 54,235; re-renewed June 26, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Suspensory bandages. 54,249; re-renewed June 26, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Medicinal and surgical plasters. 54,308; re-renewed June 26, 1946. O. G. July 16. Classes 6 and 44.

Johnson & Johnson, New Brunswick, N. J. Catheters, stomach-tubes, and bougies. 54,309; re-renewed June 26, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Surgical dressings. 211,176; renewed Apr. 6, 1946. O. G. July 16. Class 44.

Johnson & Johnson, New Brunswick, N. J. Bandages. 213,391; renewed May 25, 1946. O. G. July 16. Class 44.

Kessler, Albert, doing business as Parfumerie Casella, Brooklyn, N. Y. Perfumes and toilet water. 422,374; July 16; Serial No. 492,840; published Apr. 16, 1946. Class 6.

Keystone Varnish Company, Brooklyn, N. Y. Varnishes, japans, liquid filler, etc. 55,505; re-renewed Aug. 14, 1946. O. G. July 16. Class 16.

Kimball, W. W., Company, Chicago, Ill. Organs. 55,340; re-renewed Aug. 14, 1946. O. G. July 16. Class 36.

Klein Brothers, to Belding Heminway Company, New York, N. Y. Crepe silks in the piece. 217,089; renewed Aug. 24, 1946. O. G. July 16. Class 42.

Kohnstamm, H., & Co., Inc., New York, N. Y. Colors in the form of powder and pulps. 422,362; July 16; Serial No. 491,843; published Apr. 9, 1946. Class 6.

Kosloff, I., and Sons, to I. Kosloff & Sons, Inc., New York, N. Y. Candy. 213,223; renewed May 25, 1946. O. G. July 16. Class 46.

Kosloff, I., & Sons, Inc.: *See*—
Kosloff, I., and Sons.

Lederle Laboratories, Inc., New York, N. Y. Vitamin B complex factor. 422,369; July 16; Serial No. 492,634; published Apr. 23, 1946. Class 6.

Lee, J. Ellwood, Company, Conshohocken, Pa., to Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. 54,712; re-renewed June 26, 1946. O. G. July 16. Class 6.

Leffler & Co.: *See*—
Leffler, Eli S.

Leffler, Eli S., doing business as Leffler & Co., St. Louis, Mo. Face lotions. 216,248; renewed Aug. 10, 1946. O. G. July 16. Class 6.

Lehn & Fink Products Corporation, Bloomfield, N. J. Perfume. 422,306; July 16; Serial No. 483,537; published Apr. 23, 1946. Class 6.

Lentheric, Incorporated, New York, N. Y. Perfumes, toilet waters, and cosmetic creams. 422,378; July 16; Serial No. 493,203; published Apr. 16, 1946. Class 6.

Le Sonier, Inc., Boston, Mass. Powder mitts containing powder. 422,299; July 16; Serial No. 479,043; published Apr. 17, 1945. Class 6.

Levitch, David, doing business as Briny Marlin Coat & Suit Co., Kansas City, Mo. Ladies' coats and suits. 422,351; July 16; Serial No. 491,345; published Apr. 16, 1946. Class 39.

Lewis, Florence N., doing business as Elizabeth Arden, to Elizabeth Arden Sales Corporation, New York, N. Y. Deodorants. 210,274; renewed Mar. 9, 1946. O. G. July 16. Class 6.

Lewis, Florence N., doing business as Elizabeth Arden, to Elizabeth Arden Sales Corporation, New York, N. Y. Cosmetics. 211,192; renewed Apr. 6, 1946. O. G. July 16. Class 6.

Linker & Herbert Inc., New York, N. Y. Misses' and women's coats and suits. 422,345; July 16; Serial No. 490,892; published Apr. 23, 1946. Class 39.

Maas & Waldstein Company, Newark, N. J. Coating compositions containing vinyl resins. 422,318; July 16; Serial No. 488,343; published Apr. 9, 1946. Class 16.

Maas & Waldstein Company, Newark, N. J. Enamels containing synthetic resins and varnishes. 422,319; July 16; Serial No. 488,350; published Apr. 9, 1946. Class 16.

Marshall-Wells Company, Duluth, Minn. Percolators, kettles, saucepans, etc. 422,381; July 16. Class 13.

Mellor, Fred, Shreveport, La. Mops. 422,390; July 16. Class 29.

Melville Shoe Corporation, New York, N. Y. Composition soles for shoes and for leather shoes and combination cloth and leather shoes. 217,048; renewed Aug. 24, 1946. O. G. July 16. Class 39.

Metropolitan Chemical Corp., Albany, N. Y. Shampoo and parasiticide. 422,375; July 16; Serial No. 493,071; published Apr. 16, 1946. Class 6.

Moore, Benjamin, & Co., Jersey City, N. J., and New York, N. Y. Ready mixed paints. 422,346; July 16; Serial No. 490,899; published Apr. 2, 1946. Class 16.

Mortell, J. W., Company, Kankakee, Ill. Weather-proof coatings in the form of heavy paints. 422,292; July 16; Serial No. 459,079; published Apr. 9, 1946. Class 16.

Myers, F. E., & Brother, to The F. E. Myers & Bro. Co., Ashland, Ohio. Water-pumps. 52,274; re-renewed May 8, 1946. O. G. July 16. Class 23.

Myers, F. E., & Bro. Co., The: *See*—
Myers, F. E., & Brother.

Narragansett Machine Company, Pawtucket, R. I. Apparatus for testing closable containers. 422,387; July 16. Class 26.

National Oil Products Company, Harrison, N. J. Skin detergent. 422,349; July 16; Serial No. 491,111; published Apr. 2, 1946. Class 4.

Nelson, B. F., Manufacturing Company, Minneapolis, Minn. Asphalt-composition shingles. 214,308; renewed June 22, 1946. O. G. July 16. Class 12.

Newman, Geo. A., Co., to Newman Pharmacal Company, Louisville, Ky. Nerve and nutritive tonic. 51,234; re-renewed Apr. 10, 1946. O. G. July 16. Class 6.

Newman Pharmacal Company: *See*—
Newman, Geo. A., Co.

No-Boil Fluid Chemical Company, Jamestown, N. Y. Washing compound for use in cleaning clothes. 422,294; July 16; Serial No. 470,311; published Apr. 16, 1946. Class 6.

Northern Laboratories, Birmingham, Ala. Hair dressing. 422,325; July 16; Serial No. 489,141; published Apr. 23, 1946. Class 6.

Olin Industries, Inc.: *See*—
Winchester Repeating Arms Co.

Parfumerie Casella: *See*—
Kessler, Albert.

Parfums Charbert, Inc., New York, N. Y. Perfumes, toilet waters, sachet powders, etc. 422,357; July 16; Serial No. 491,672; published Apr. 9, 1946. Class 6.

Parfums Schiaparelli, Inc., New York, N. Y. Soaps in cake and stick form. 422,359; July 16; Serial No. 491,726; published Apr. 23, 1946. Class 4.

Parfums Verlayne (S. A. R. L.), Paris, France. Perfumes, toilet waters, rouge, etc. 422,327; July 16; Serial No. 489,355; published Apr. 16, 1946. Class 6.

Peritz, Ernst, doing business as Delex Products, New York, N. Y. Perfumes, toilet water, eau de cologne, etc. 422,870–1; July 16; Serial Nos. 492,653–4; published Apr. 9, 1946. Class 6.

Pestless Products Company: *See*—
Vaughn, Clyde.

Peters Shoe Company, to International Shoe Company, St. Louis, Mo. Leather shoes. 56,080; re-renewed Aug. 21, 1946. O. G. July 16. Class 39.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Quick drying synthetic lustreless enamel. 422,383; July 16. Class 16.

Pickering Governor Company, The, Portland, Conn. Engine-governors. 51,569; re-renewed Apr. 17, 1946. O. G. July 16. Class 22.

Pickering Governor Company, The, Portland, Conn. Engine-governors. 52,627; re-renewed May 15, 1946. O. G. July 16. Class 23.

Pioneer Suspender Company, Philadelphia, Pa. Hose-supporters. 55,859; re-renewed Aug. 21, 1946. O. G. July 16. Class 39.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paintbrushes. 213,259; renewed May 25, 1946. O. G. July 16. Class 29.

Pond's Extract Company, New York, N. Y. Lipsticks. 422,338; July 16; Serial No. 490,445; published Apr. 16, 1946. Class 6.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser, and detergent. 422,361; July 16; Serial No. 491,772; published Apr. 23, 1946. Class 4.

Purex Products, Incorporated, Baltimore, Md., assignor to Beau Brummel Ties, Inc., Cincinnati, Ohio. Hand lotion, quinine hair lotion, massage cream, lilac lotion, etc. 422,304; July 16; Serial No. 482,545; published Nov. 27, 1945. Class 6.

Q A C Company: *See*—
Bachman, Walter S.

Quinlan, Kathleen Mary, Inc., New York, N. Y. Toilet creams. 422,302; July 16; Serial No. 481,427; published Jan. 1, 1946. Class 6.

Radio Corporation of America: *See*—
Victor Talking Machine Co.

Reid, Murdoch & Co., Chicago, Ill. Canned fruits and fruit preserves, canned vegetables, etc. 210,116; renewed Mar. 9, 1946. O. G. July 16. Class 46.

Retort Pharmaceutical Co.: *See*—
Catts, David D.

Retort Pharmaceutical Co., Inc., assignee: *See*—
Catts, David D.

Roger & Gallet, New York, N. Y. Perfumes, toilet waters, filled powder and rouge containers, etc. 422,310; July 16; Serial No. 484,183; published Apr. 16, 1946. Class 6.

Roycemore Toiletries, Inc., Chicago, Ill. Soap. 422,368; July 16; Serial No. 491,888; published Apr. 23, 1946. Class 4.

Sari Cosmetics: *See*—
Buckwalter, Sara P.

Schoeneman, J., Incorporated, Baltimore, Md. Topcoats and overcoats for men, youths, and boys. 215,247; renewed July 13, 1946. O. G. July 16. Class 39.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 215,422; renewed July 20, 1946. O. G. July 16. Class 39.

Selby Shoe Co., The, Portsmouth, Ohio. Leather boots and shoes. 55,321; re-renewed Aug. 14, 1946. O. G. July 16. Class 39.

Selig Company, The, Atlanta, Ga. Liquid deodorant. 422,322; July 16; Serial No. 488,780; published Apr. 16, 1946. Class 6.

Sharp & Dohme, Incorporated, assignee: *See*—
Thompson, W. Basil.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibacterial preparation. 422,348; July 16; Serial No. 490,974; published Apr. 9, 1946. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Protein-carbohydrate preparation for nutritional use. 422,350; July 16; Serial No. 491,171; published Apr. 9, 1946. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. 422,353; July 16; Serial No. 491,432; published Apr. 16, 1946. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antiseptic preparation for oral use. 422,354; July 16; Serial No. 491,484; published Apr. 16, 1946. Class 6.

Shaw, Ralph, New York, N. Y. Men's and boys' sportwear. 422,296; July 16; Serial No. 477,899; published Apr. 24, 1945. Class 39.

Silberstein, Albert L., to A. L. Griffon, doing business as Griffon Cutlery Works, New York, N. Y. Razors and pocket-knives. 55,299; re-renewed Aug. 14, 1946. O. G. July 16. Class 23.

Smith, James E., doing business as Jeps Products Co., Philadelphia, Pa. Metal polish and metal cleaner. 422,320; July 16; Serial No. 488,484; published Apr. 23, 1946. Class 4.

Snap Fly Dope Company: *See*—
Hoyt, Charles L.

Socialite Cosmetics, Inc., New York, N. Y. Perfume, toilet water, lip stick, etc. 422,330; July 16; Serial No. 489,696; published Apr. 23, 1946. Class 6.

Solvay Process Company, The, Solvay, to The Solvay Process Company, New York, N. Y. Cleansing preparation. 216,267; renewed Aug. 10, 1946. O. G. July 16. Class 4.

Stanley, John T., Co., Inc., New York, N. Y. Cleaning compound for general use. 422,365; July 16; Serial No. 491,937; published Apr. 23, 1946. Class 4.

Statler Mfg. Co., assignee: *See*—
Statler Manufacturing Company.

Statler Manufacturing Company, assignor to Statler Mfg. Co., Chicago, Ill. Synthetic plastics. 422,389; July 16. Class 1.

Stillitz, C., London, England. Ladies' and children's skirts, slacks, and blouses. 422,311; July 16; Serial No. 484,547; published Apr. 16, 1946. Class 39.

Stittville Canning Company, Utica, to Haxton Canning Company, Inc., Oakfield, N. Y. Canned fruits, canned vegetables, sauerkraut, etc. 209,904; renewed Mar. 2, 1946. O. G. July 16. Class 46.

Stowe, Benjamin L., Jersey City, N. J., to United States Rubber Company, New York, N. Y. Woven fabric hose. 28,419; re-renewed June 23, 1946. O. G. July 16. Class 35.

Thermoid Company: *See*—
Thermoid Rubber Company.

Thermoid Rubber Company, to Thermoid Company, Trenton, N. J. Clutch rings, being frictional parts for clutch plates. 216,976; renewed Aug. 24, 1946. O. G. July 16. Class 35.

Thompson, W. Basil, doing business as International Chemicals, Arlington, Va., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Combination of a sulfonamide and an anti-biotic, particularly sodium sulfadiazine and tyrothricin, in solution or suspension. 422,312; July 16; Serial No. 484,862; published Jan. 1, 1946. Class 6.

Triplett & Barton Inc., Burbank, Calif. Automatic industrial X-ray machines, automatic film developing and drying machines, electrical controls, etc. 422,380; July 16. Class 26.

United Chromium, Incorporated, New York, N. Y. Organic solvents. 422,307; July 16; Serial No. 483,943; published Apr. 9, 1946. Class 6.

U. S. Line Company: *See*—
United States Whip Company.

United States Rubber Company: *See*—
Boston Rubber Shoe Company.
Eureka Fire Hose Company.
Gorham Rubber Company.
Stowe, Benjamin L.

United States Whip Company, doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 216,585; renewed Aug. 17, 1946. O. G. July 16. Class 22.

United States Whip Company, doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 217,440; renewed Aug. 31, 1946. O. G. July 16. Class 22.

Van Horn & Sawtell, New York, N. Y., to Johnson & Johnson, New Brunswick, N. J. Antiseptic non-fatty and soluble lubricating jelly. 54,124; re-renewed June 19, 1946. O. G. July 16. Class 6.

Vaughn, Clyde, doing business as Pestles Products Company, Pasadena, Calif. Fertilizer. 422,336; July 16; Serial No. 490,346; published Apr. 9, 1946. Class 10.

Victor Talking Machine Co., Camden, N. J., to Radio Corporation of America, New York, N. Y. Talking-machine records. 54,368; re-renewed June 26, 1946. O. G. July 16. Class 36.

Wahl Company, The, to Eversharp, Inc., Chicago, Ill. Fountain pens. 211,504; renewed Apr. 13, 1946. O. G. July 16. Class 37.

Warner, William R., & Co., Inc., New York, N. Y. Prescription vehicle for the solution and/or suspension of active drugs. 422,352; July 16; Serial No. 491,376; published Apr. 9, 1946. Class 6.

Wells, S. C., & Company, Leroy, N. Y. Liquid preparation for the treatment of colic, etc. 422,368; July 16; Serial No. 492,603; published Apr. 9, 1946. Class 6.

Westall, E., Co.: *See*—
Westall, Evelyn.

Westall, Evelyn, doing business as E. Westall Co., New York, N. Y. Perfumery. 422,300; July 16; Serial No. 479,541; published Aug. 14, 1945. Class 6.

Westall, Evelyn, Company, assignee: *See*—
Blake, Irene, Cosmetics, Inc.

West Virginia Pulp & Paper Company, New York, N. Y. Abietic acid. 422,358; July 16; Serial No. 491,694; published Apr. 16, 1946. Class 6.

Wetherholt's Perfume Co., Chicago, Ill. Perfume and cologne. 422,341; July 16; Serial No. 490,724; published Apr. 9, 1946. Class 6.
Wetherholt's Perfume Co., Chicago, Ill. Perfume and cologne. 422,342; July 16; Serial No. 490,727; published Apr. 9, 1946. Class 6.
Williams, J. B., Company, Glastonbury, Conn. Face lotions and after-shaving preparations. 422,337; July 16; Serial No. 490,347; published Apr. 16, 1946. Class 6.
Winchester Repeating Arms Co., to Olin Industries, Inc., New Haven, Conn. Shells for use in shotguns. 28,463; re-renewed June 23, 1946. O. G. July 16. Class 9.
Winthrop Chemical Company, Inc., New York, N. Y. Pentavalent antimony compound. 422,331; July 16; Serial No. 490,001; published Apr. 23, 1946. Class 6.
Woodworth, C. B., Sons Co., The, Rochester, to Bourjois, Inc., New York, N. Y. Perfumes. 55,630; re-renewed Aug. 21, 1946. O. G. July 16. Class 6.
Woolen Corporation of America, The, New York, N. Y. Garments of woolen and/or worsted fabrics. 422,329; July 16; Serial No. 489,428; published Apr. 16, 1946. Class 39.
Wyeth Incorporated, Philadelphia, Pa. Estrogenic preparation. 422,305; July 16; Serial No. 483,358; published Apr. 23, 1946. Class 6.
Y-Co Motor Fuel Company: *See*—
Yellow Cab Motor Fuel Company.
Yellow Cab Motor Fuel Company, to Y-Co Motor Fuel Company, Pittsburgh, Pa. Gasoline, benzol, mixtures of gasoline and benzol, etc. 209,762–3; renewed Mar. 2, 1946. O. G. July 16. Class 15.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Steel pipe and pipe couplings. 211,186; renewed Apr. 6, 1946. O. G. July 16. Class 13.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Steel pipe. 211,187; renewed Apr. 6, 1946. O. G. July 16. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Bluefield Coal & Coke Company. 216,632; renewed Aug. 17, 1946. O. G. July 16.
Coal. Bluefield Coal & Coke Company. 217,326; renewed Aug. 31, 1946. O. G. July 16.
Hops. E. Clemens Horst Company. 216,592; renewed Aug. 17, 1946. O. G. July 16.
Plastics, Synthetic. Statler Manufacturing Company. 422,389; July 16.

CLASS 2

Cartons, boxes, shipping envelopes, etc. Hinde & Dauch Paper Co. 216,589; renewed Aug. 10, 1946. O. G. July 16.

CLASS 3

Handbags and purses. H. A. Adams & Co., Inc. 422,391; July 16.
Handbags, purses, and key cases. H. A. Adams & Co., Inc. 422,392; July 16.

CLASS 4

Abrasive wheels, Diamond. Diamond Wheel Industries, Inc. 422,326; July 16; Serial No. 489,211; published Apr. 16, 1946.
Alumina material, Calcined. General Abrasive Company, Inc. 422,386; July 16.
Cleaner, cleanser, and detergent, Sudsing. Procter & Gamble Company. 422,361; July 16; Serial No. 491,772; published Apr. 23, 1946.
Cleaner, Liquid dry. Atlantic Refining Company. 422,366; July 16; Serial No. 491,957; published Apr. 23, 1946.
Cleaner, Wall. H. M. Dunlap. 422,384; July 16.
Cleaning compound for general use. John T. Stanley Co., Inc. 422,365; July 16; Serial No. 491,937; published Apr. 23, 1946.
Cleansing preparation. Solvay Process Company. 216,267; renewed Aug. 10, 1946. O. G. July 16.
Detergent, Skin. National Oil Products Company. 422,349; July 16; Serial No. 491,111; published Apr. 2, 1946.
Polish and metal cleaner, Metal. J. E. Smith. 422,320; July 16; Serial No. 488,484; published Apr. 23, 1946.
Polish, Silver. Dohrmann Hotel Supply Co. 422,309; July 16; Serial No. 484,121; published Apr. 16, 1946.
Shaving cream, facial and bath soaps. Golden Arrow Toiletries. 422,343; July 16; Serial No. 490,812; published Apr. 16, 1946.
Soap. Roycemore Toiletries, Inc. 422,363; July 16; Serial No. 491,888; published Apr. 23, 1946.
Soap, Shaving. C. M. Burt. 422,301; July 16; Serial No. 480,945; published Apr. 9, 1946.
Soaps in cake and stick form. Parfums Schiaparelli, Inc. 422,359; July 16; Serial No. 491,726; published Apr. 23, 1946.
Wads, pads, rolls, etc., Cleaning, scouring, and polishing. Brillo Manufacturing Company, Inc. 215,339; renewed July 13, 1946. O. G. July 16.
Washing compounds, powdered hand cleaners, paint and wall cleaners, etc. Chemical Manufacturing & Distributing Company. 422,317; July 16; Serial No. 487,352; published Apr. 9, 1946.

CLASS 6

Acid, Abietic. West Virginia Pulp & Paper Company. 422,358; July 16; Serial No. 491,694; published Apr. 16, 1946.
Antiacid for relief of acid indigestion. E. J. Brennan. 422,344; July 16; Serial No. 490,871; published Apr. 9, 1946.
Antibacterial preparation. Sharp & Dohme, Incorporated. 422,348; July 16; Serial No. 490,974; published Apr. 9, 1946.
Antiknock compound. Ethyl Gasoline Corporation. 215,282; renewed July 13. O. G. July 16.
Antiseptic preparation for oral use. Sharp & Dohme, Incorporated. 422,354; July 16; Serial No. 491,434; published Apr. 16, 1946.
Aromatic preparation used as a perfume. General Drug Company. 422,340; July 16; Serial No. 490,651; published Apr. 9, 1946.
Chemical compound for impregnating or coating paper, fabrics, leather, etc. Hermetite Corporation. 422,334; July 16; Serial No. 490,191; published Apr. 9, 1946.
Chemical used for the generation of a greenhouse fumigant. Hydroponic Chemical Company, Inc. 422,367; July 16; Serial No. 492,269; published Apr. 9, 1946.
Chemicals, such as vulcanizing agents, Rubber. B. F. Goodrich Company. 422,356; July 16; Serial No. 491,563; published Apr. 16, 1946.
Colognes. Affiliated Products, Inc. 422,293; July 16; Serial No. 464,635; published Apr. 9, 1946.
Colors in the form of powder and pulp. H. Kohnstamm & Co., Inc. 422,362; July 16; Serial No. 491,843; published Apr. 9, 1946.
Compound for use in cleaning clothes, Washing. No-Boil Fluid Chemical Company. 422,294; July 16; Serial No. 470,311; published Apr. 16, 1946.
Compound, Pentavalent antimony. Winthrop Chemical Company, Inc. 422,331; July 16; Serial No. 490,001; published Apr. 23, 1946.
Cosmetics. S. P. Buckwalter. 422,315; July 16; Serial No. 486,661; published Apr. 16, 1946.
Cosmetics. F. N. Lewis. 211,192; renewed Apr. 6, 1946. O. G. July 16.
Creams, Toilet. Kathleen M. Quinlan, Inc. 422,302; July 16; Serial No. 481,427; published Jan. 1, 1946.
Deodorant, Liquid. Selig Company. 422,322; July 16; Serial No. 488,780; published Apr. 16, 1946.
Deodorants. F. N. Lewis. 210,274; renewed Mar. 9, 1946. O. G. July 16.
Disinfectant, General. D. D. Catts. 422,347; July 16; Serial No. 490,926; published Apr. 9, 1946.
Dyes having particular value for printing rayons, Vat. American Aniline Products, Inc. 422,298; July 16; Serial No. 477,990; published Apr. 23, 1946.
Estrogenic preparation. Wyeth Incorporated. 422,305; July 16; Serial No. 483,358; published Apr. 23, 1946.
Fluids for use in treating the human hair. Hilco Incorporated. 422,376; July 16; Serial No. 493,122; published Apr. 23, 1946.
Hair and scalp preparations. A. Granese. 422,295; July 16; Serial No. 473,601; published Apr. 23, 1946.
Hair dressing. Irresistible, Inc. 422,332; July 16; Serial No. 490,120; published Apr. 23, 1946.
Hair dressing. Northern Laboratories. 422,325; July 16; Serial No. 489,141; published Apr. 23, 1946.
Heavy chemicals, also known as commercial or technical chemicals. General Chemical Company. 215,759; renewed July 27, 1946. O. G. July 16.
Herb tea. J. J. Bates. 422,314; July 16; Serial No. 484,998; published Apr. 16, 1946.
Insecticide. Griffith Laboratories, Inc. 422,379; July 16; Serial No. 494,903; published Apr. 9, 1946.
Intravenous solutions. Intravenous Products Company of America, Inc. 213,724; renewed June 1, 1946. O. G. July 16.
Jelly, Antiseptic non-fatty and soluble lubricating. Van Horn & Sawtell. 54,124; re-renewed June 19, 1946. O. G. July 16.
Leg make-up. Jeurelle, Inc. 422,316; July 16; Serial No. 486,902; published Dec. 4, 1945.
Lipstick, rouge, face powder, etc. M. Harrison. 422,308; July 16; Serial No. 484,093; published Apr. 9, 1946.
Lipsticks. Pond's Extract Company. 422,338; July 16; Serial No. 490,445; published Apr. 16, 1946.
Liquid preparation for the treatment of colic, etc. S. C. Wells & Company. 422,368; July 16; Serial No. 492,603; published Apr. 9, 1946.

Lotion, After shave. Admiral Cosmetics, Inc. 422,377; July 16; Serial No. 493,159; published Apr. 16, 1946.
Lotion, quinine hair lotion, massage cream, lilac lotion, etc., Hand. Purex Products, Incorporated. 422,304; July 16; Serial No. 482,545; published Nov. 27, 1945.
Lotions and after-shaving preparations, Face. J. B. Williams Company. 422,337; July 16; Serial No. 490,347; published Apr. 16, 1946.
Lotions, Face. E. S. Lefler. 216,248; renewed Aug. 10. 1946. O. G. July 16.
Medical compound (ointment). Desitin Chemical Co. 216,627–8; renewed Aug. 17, 1946. O. G. July 16.
Medicinal preparation used for female disorders. Endo Products Inc. 422,339; July 16; Serial No. 490,530; published Apr. 16, 1946.
Medicine for the purification of the blood, etc. W. W. Gavitt Medical Co. 51,253; re-renewed Apr. 10, 1946. O. G. July 16.
Nitrocellulose. Hercules Powder Company. 216,919; renewed Aug. 24, 1946. O. G. July 16.
Ointment used in the treatment of burns and other wounds. Archer-Taylor Drug Co. 422,321; July 16; Serial No. 488,724; published Apr. 16, 1946.
Ointments. Foster-McClellan Company. 55,606; re-renewed Aug. 21, 1946. O. G. July 16.
Perfume. Lehn & Fink Products Corporation. 422,306; July 16; Serial No. 483,537; published Apr. 23, 1946.
Perfume and cologne. Wetherholt's Perfume Co. 422,341; July 16; Serial No. 490,724; published Apr. 9, 1946.
Perfume and cologne. Wetherholt's Perfume Co. 422,342; July 16; Serial No. 490,727; published Apr. 9, 1946.
Perfume, cologne, and dusting powder. Irene Blake Cosmetics, Inc. 422,303; July 16; Serial No. 482,132; published Aug. 14, 1945.
Perfume, toilet water, eau de cologne, etc. Chanel, Inc. 422,335; July 16; Serial No. 490,231; published Apr. 16, 1946.
Perfume, toilet water, lip stick, etc. Socialite Cosmetics, Inc. 422,330; July 16; Serial No. 489,696; published Apr. 23, 1946.
Perfume, toilet water, talcum powder, face powder, etc. Bourjois, Inc. 217,093; renewed Aug. 24, 1946. O. G. July 16.
Perfumery. E. Westall. 422,300; July 16; Serial No. 479,541; published Aug. 14, 1945.
Perfumes. Chemdrug Corporation. 422,364; July 16; Serial No. 491,910; published Apr. 16, 1946.
Perfumes. C. B. Woodworth Sons Co. 55,630; re-renewed Aug. 21, 1946. O. G. July 16.
Perfumes and toilet water. A. Kessler. 422,374; July 16; Serial No. 492,840; published Apr. 16, 1946.
Perfumes, toilet water, eau de cologne, etc. E. Peritz. 422,370–1; July 16; Serial Nos. 492,653–4; published Apr. 9, 1946.
Perfumes, toilet waters and cosmetic creams. Lentheric, Incorporated. 422,378; July 16; Serial No. 493,203; published Apr. 16, 1946.
Perfumes, toilet waters, filled powder and rouge containers, etc. Roger & Gallet. 422,310; July 16; Serial No. 484,183; published Apr. 16, 1946.
Perfumes, toilet waters, rouge, etc. Parfums Verlayne (S. A. R. L.). 422,327; July 16; Serial No. 489,355; published Apr. 16, 1946.
Perfumes, toilet waters, sachet powder, etc. Parfums Chatbert, Inc. 422,357; July 16; Serial No. 491,672; published Apr. 9, 1946.
Pharmaceutical preparation. Cozone Laboratories, Inc. 422,360; July 16; Serial No. 491,752; published Apr. 16, 1946.
Plasters, Medicinal. J. M. Grosvenor & Co. 51,989; re-renewed May 1, 1946. O. G. July 16.
Plasters, Medicinal. J. M. Grosvenor & Co. 52,140; re-renewed May 1, 1946. O. G. July 16.
Plasters, Medicinal. J. Ellwood Lee Company. 54,712; re-renewed June 26, 1946. O. G. July 16.
Plasters, Medicinal and surgical. Johnson & Johnson. 54,308; re-renewed June 26, 1946. O. G. July 16.
Powder, face makeup, creams, etc., Face. Association Products, Inc. 422,372; July 16; Serial No. 492,757; published Apr. 9, 1946.
Powder, face make up in liquid form, creams for the hands and face, etc., Face. Associated Products, Inc. 422,328; July 16; Serial No. 489,380; published Apr. 16, 1946.
Powder, face make-up in liquid form, creams for the hands and face, etc., Face. Associated Products, Inc. 422,373; July 16; Serial No. 492,814; published Apr. 16, 1946.
Powder mitts containing powder. Le Sonier, Inc. 422,299; July 16; Serial No. 479,043; published Apr. 17, 1945.
Prescription vehicle for the solution and/or suspension of active drugs. William R. Warner & Co., Inc. 422,352; July 16; Serial No. 491,376; published Apr. 9, 1946.
Protein-carbohydrate preparation for nutritional use. Sharp & Dohme, Incorporated. 422,350; July 16; Serial No. 491,171; published Apr. 9, 1946.
Pyrenone. Dodge & Olcott, Inc. 422,355; July 16; Serial No. 491,556; published Apr. 16, 1946.
Repellant, Insect. C. L. Hoyt. 216,773; renewed Aug. 17, 1946. O. G. July 16.
Shampoo and parasiticide. Metropolitan Chemical Corp. 422,375; July 16; Serial No. 493,071; published Apr. 16, 1946.
Skin lotion or wash adapted to remove stale cosmetics and impurities from the skin. Cosmex Corp. 422,313; July 16; Serial No. 484,881; published Apr. 16, 1946.
Solvent for gums and cellulose esters, High-boiling. Hercules Powder Company. 216,826; renewed Aug. 24, 1946. O. G. July 16.
Solvent, High-boiling. Hercules Powder Company. 216,366; renewed Aug. 10, 1946. O. G. July 16.
Solvents, Organic. United Chromium, Incorporated. 422,307; July 16; Serial No. 483,943; published Apr. 9, 1946.
Spreaders and deposit builders for insecticides, etc. Hercules Glue Company, Ltd. 422,385; July 16.
Sterilizing material. W. S. Bachman. 422,323–4; July 16; Serial Nos. 488,884–5; published Apr. 9, 1946.
Sulfonamide and an anti-biotic, particularly sodium sulfadiazine and tyrothricin, in solution or suspension, Combination of. W. B. Thompson. 422,312; July 16; Serial No. 484,862; published Jan. 1, 1946.
Tablets, Water purification. Burnham Soluble Iodine Company. 422,297; July 16; Serial No. 477,966; published Apr. 9, 1946.
Tonic, Nerve and nutritive. Geo. A. Newman Co. 51,234; re-renewed Apr. 10, 1946; O. G. July 16.
Vitamin B complex factor. Lederle Laboratories, Inc. 422,369; July 16; Serial No. 492,634; published Apr. 23, 1946.
Vitamin preparation. Sharp & Dohme, Incorporated. 422,353; July 16; Serial No. 491,432; published Apr. 16, 1946.

CLASS 7

Cordage. Thomas Jackson & Son Co. 422,388; July 16.

CLASS 9

Dynamite. Hercules Powder Company. 422,333; July 16; Serial No. 490,190; published Apr. 23, 1946.
Matches. F. H. Fromm. 209,806; renewed Mar. 2, 1946. O. G. July 16.
Shells for use in shotguns. Winchester Repeating Arms Co. 28,463; re-renewed June 23, 1946. O. G. July 16.

CLASS 10

Fertilizer. C. Vaughn. 422,336; July 16; Serial No. 490,346; published Apr. 9, 1946.

CLASS 12

Roofing, Ready tar and felt. Barrett Manufacturing Company. 52,691; re-renewed May 15, 1946. O. G. July 16.
Shingles, Asphalt-composition. B. F. Nelson Manufacturing Company. 214,308; renewed June 22, 1946. O. G. July 16.

CLASS 13

Percolators, kettles, sauce pans, etc. Marshall-Wells Company. 422,381; July 16.
Pipe and pipe couplings, Steel. Youngstown Sheet and Tube Company. 211,186; renewed Apr. 6, 1946. O. G. July 16.
Pipe, Steel. Youngstown Sheet and Tube Company. 211,187; renewed Apr. 6, 1946. O. G. July 16.

CLASS 14

Alloys, Heat-resisting and corrosion-resisting and oxidation-resisting. American Manganese Steel Company. 213,922; renewed June 8, 1946. O. G. July 16.

CLASS 15

Gasoline, benzol, mixtures of gasoline and benzol, etc. Yellow Cab Motor Fuel Company. 209,762–3; renewed Mar. 2, 1946. O. G. July 16.
Gasoline, naphtha, kerosene, etc. P. W. Boswell. 216,266; renewed Aug. 10, 1946. O. G. July 16.
Oils, Motor fuel. Ethyl Gasoline Corporation. 216,023; renewed Aug. 3, 1946. O. G. July 16.
Oils, Motor fuel. Ethyl Gasoline Corporation. 216,141; renewed Aug. 3, 1946. O. G. July 16.

CLASS 16

Coating compositions containing vinyl resins. Maas & Waldstein Company. 422,318; July 16; Serial No. 488,343; published Apr. 9, 1946.
Coatings in the form of heavy paints, Weather-proof. J. W. Mortell Company. 422,292; July 16; Serial No. 459,079; published Apr. 9, 1946.
Enamel, Quick drying synthetic lustreless. Phelan-Faust Paint Mfg. Co. 422,383; July 16.
Enamels containing synthetic resins and varnishes. Maas & Waldstein Company. 422,319; July 16; Serial No. 488,350; published Apr. 9, 1946.
Paints, Ready mixed. Benjamin Moore & Co. 422,346; July 16; Serial No. 490,899; published Apr. 2, 1946.
Varnishes, japans, liquid fillers, etc. Keystone Varnish Company. 55,505; re-renewed Aug. 14, 1946. O. G. July 16.

CLASS 21

Electric-conduit fittings. Crouse-Hinds Company. 50,462–3; re-renewed Mar. 20, 1946. O. G. July 16.
Electric-lighting plants, motor generators, cables, etc. Bucyrus Company. 215,340; renewed July 13, 1946. O. G. July 16.

CLASS 22

Fishing lines. United States Whip Company. 216,585; renewed Aug. 17, 1946. O. G. July 16.
Fishing lines. United States Whip Company. 217,440; renewed Aug. 31, 1946. O. G. July 16.

CLASS 23

Engine-governors. Pickering Governor Company. 51,569; re-renewed Apr. 17, 1946. O. G. July 16.
Engine-governors. Pickering Governor Company. 52,627; re-renewed May 15, 1946. O. G. July 16.
Razors and pocket-knives. A. L. Silberstein. 55,299; re-renewed Aug. 14, 1946. O. G. July 16.
Water-pumps. F. E. Myers & Brother. 52,274; re-renewed May 8, 1946. O. G. July 16.

CLASS 26

Apparatus for testing closable containers. Narragansett Machine Company. 422,387; July 16.
Film and plate holder, Photographic. Folmer Graflex Corporation. 422,382; July 16.
X-ray machines, automatic film developing and drying machines, electrical controls, Automatic industrials. Triplett & Barton Inc. 422,380; July 16.

CLASS 29

Brooms. Fortuna Broom Company. 216,004; renewed Aug. 3, 1946. O. G. July 16.
Mops. F. Mellor. 422,390; July 16.
Paintbrushes. Pittsburgh Plate Glass Company. 213,259; renewed May 25, 1946. O. G. July 16.

CLASS 32

Mattresses. A. Brandwein & Co. 212,747; renewed May 11, 1946. O. G. July 16.

CLASS 34

Heat-regulators. Fulton Company. 53,173; re-renewed May 29, 1946. O. G. July 16.

CLASS 35

Clutch rings, being frictional parts for clutch plates. Thermoid Rubber Company. 216,976; renewed Aug. 24, 1946. O. G. July 16.
Hose, Fabric. Eureka Fire Hose Company. 53,167–8; re-renewed May 29, 1946. O. G. July 16.
Hose, Woven fabric. B. L. Stowe. 28,419; re-renewed June 23, 1946. O. G. July 16.
Packing, Rubber. Gorham Rubber Company. 52,268; re-renewed May 8, 1946. O. G. July 16.

CLASS 36

Organs. W. W. Kimball Company. 55,340; re-renewed Aug. 14, 1946. O. G. July 16.
Records, Talking-machine. Victor Talking Machine Co. 54,368; re-renewed June 26, 1946. O. G. July 16.

CLASS 37

Guides, Angular celluloid tab. Globe-Wernicke Co. 214,265; renewed June 15, 1946. O. G. July 16.
Lead-pencils. Eagle Pencil Company. 51,020; re-renewed Apr. 3, 1946. O. G. July 16.
Pens, Fountain. Wahl Company. 211,504; renewed Apr. 13, 1946. O. G. July 16.

CLASS 38

Dictionaries, atlases, and cyclopedias. Funk & Wagnalls Company. 55,065; re-renewed Aug. 7, 1946. O. G. July 16.

CLASS 39

Boots and shoes for men and women, Leather. Commonwealth Shoe and Leather Company. 55,669; re-renewed Aug. 21, 1946. O. G. July 16.
Boots and shoes for men, women, and youths, Leather. Commonwealth Shoe and Leather Company. 55,734; re-renewed Aug. 21, 1946. O. G. July 16.
Boots and shoes, Leather. Selby Shoe Co. 55,321; re-renewed Aug. 14, 1946. O. G. July 16.
Coats and suits, Ladies'. D. Levitch. 422,351; July 16; Serial No. 491,345; published Apr. 16, 1946.
Coats and suits, Misses' and women's. Linker & Herbert Inc. 422,345; July 16; Serial No. 490,892; published Apr. 23, 1946.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 215,422; renewed July 20, 1946. O. G. July 16.
Garments of woolen and/or worsted fabric. Woolen Corporation of America. 422,329; July 16; Serial No. 489,428; published Apr. 16, 1946.
Gloves constructed of leather. O. C. Hansen Manufacturing Company. 216,928; renewed Aug. 24, 1946. O. G. July 16.
Gloves of knitted, netted, or textile fabrics, Inside. O. C. Hansen Manufacturing Co. 216,942; renewed Aug. 24, 1946. O. G. July 16.
Hose-supporters. Pioneer Suspender Company. 55,859; re-renewed Aug. 21, 1946. O. G. July 16.
Shoes, Leather. Peters Shoe Company. 56,080; re-renewed Aug. 21, 1946. O. G. July 16.
Shoes, Rubber. Boston Rubber Shoe Company. 28,076; re-renewed Apr. 7, 1946. O. G. July 16.
Skirts, slacks, and blouses, Ladies' and children's. C. Stillitz. 422,311; July 16; Serial No. 484,547; published Apr. 16, 1946.
Soles for shoes and for leather shoes and combination cloth and leather shoes, Composition. Melville Shoe Corporation. 217,048; renewed Aug. 24, 1946. O. G. July 16.
Sportswear, Men's and boy's. R. Shaw. 422,296; July 16; Serial No. 477,899; published Apr. 24, 1945.
Topcoats and overcoats for men, youths, and boys. J. Schoeneman, Incorporated. 215,247; renewed July 13, 1946. O. G. July 16.

CLASS 42

Cotton piece goods. Appleton Company. 217,188; renewed Aug. 24, 1946. O. G. July 16.
Fabrics and cotton and silk fabrics, Cotton. Wm. Anderson Textile Mfg. Co. Inc. 209,038; renewed Mar. 2, 1946. O. G. July 16.
Silks in the piece, Crepe. Klein Brothers. 217,089; renewed Aug. 24, 1946. O. G. July 16.

CLASS 43

Cotton and thread, Sewing. Jonas Brook & Bros., Limited. 52,148; re-renewed May 1, 1946. O. G. July 16.
Cotton, Sewing. J. & P. Coats, Limited. 53,250; re-renewed May 29, 1946. O. G. July 16.
Darning-cotton, crochet-cotton, and cotton thread. Clark Mile-End Spool Cotton Co. 54,324; re-renewed June 26, 1946. O. G. July 16.
Thread, Cotton. Clark Mile-End Spool Cotton Co. 52,355; re-renewed May 8, 1946. O. G. July 16.

CLASS 44

Absorbent cotton, Felted. Johnson & Johnson. 52,956–7; re-renewed May 22, 1946. O. G. July 16.
Bandages. Johnson & Johnson. 213,391; renewed May 25, 1946. O. G. July 16.
Bandages, Suspensory. Johnson & Johnson. 54,235; re-renewed June 26, 1946. O. G. July 16.
Bandages, Suspensory. Johnson & Johnson. 54,249; re-renewed June 26, 1946. O. G. July 16.
Catheters, stomach-tubes, and bougies. Johnson & Johnson. 54,309; re-renewed June 26, 1946. O. G. July 16.
Plasters, Adhesive. Johnson & Johnson. 52,955; re-renewed May 22, 1946. O. G. July 16.
Plasters, Medicinal and surgical. Johnson & Johnson. 54,308; re-renewed June 26, 1946. O. G. July 16.
Surgical dressings. Johnson & Johnson. 211,176; re-renewed Apr. 6, 1946. O. G. July 16.

CLASS 46

Bread. Carolina Baking Company. 216,875; renewed Aug. 24, 1946. O. G. July 16.
Candy. I. Kosloff and Sons. 218,223; renewed May 25, 1946. O. G. July 16.
Canned Fish. K. Hovden Co. 217,530; renewed Aug. 31, 1946. O. G. July 16.
Canned fruits and fruit preserves, canned vegetables, etc. Reid, Murdoch & Co. 210,116; renewed Mar. 9, 1946. O. G. July 16.
Canned fruits, canned vegetables, sauerkraut, etc. Stittville Canning Company. 209,904; renewed Mar. 2, 1946. O. G. July 16.
Cocoanut, Prepared. Dunham Manufacturing Company. 53,460; re-renewed June 5, 1946. O. G. July 16.
Confections. Aktiebolaget Pastill. 211,943; renewed Apr. 20, 1946. O. G. July 16.
Milk, condensed milk, cream, etc. Borden's Condensed Milk Co. 55,233; re-renewed Aug. 7, 1946. O. G. July 16.
Salad-dressing and sauces. E. R. Durkee & Co. 55,239; re-renewed Aug. 7, 1946. O. G. July 16.
Vinegars. Duffy-Mott Company, Inc. 216,448; renewed Aug. 10, 1946. O. G. July 16.

CLASS 48

Lager-beer. Iroquois Brewing Co. 55,875; re-renewed Aug. 21, 1946. O. G. July 16.

CLASS 50

Blackboards. Beckley-Cardy Company. 213,088; renewed May 18, 1946. O. G. July 16.
Blackboards. Beckley-Cardy Company. 216,491; renewed Aug. 10, 1946. O. G. July 16.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Licht, Anna, New York, N. Y. Brassière. Re. 22,771; July 16.
Roberts, Eugene, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal apparatus. Re. 22,772; July 16.
Western States Machine Company, The, assignee: *See*— Roberts, Eugene.

LIST OF PLANT PATENTEES

Wurzlow, Frank, Sr., Houma, La. Lily plant. 708; July 16.

LIST OF DESIGN PATENTEES

Allied Plastics Company, assignee: *See*— Elliott, Donald L.
Anton, Evan J.: *See*— Marcus, Samuel, and Anton.
Argus, Incorporated, assignee: *See*— Van den Broek, Jan A.
Bach, Alfons, Stamford, Conn., assignor to Syracuse Ornamental Co., Syracuse, N. Y. Wall bracket. 145,194; July 16.
Beckwith, Edwin L., Brookline, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Chest. 145,195; July 16.
Beckwith Manufacturing Company, assignee: *See*— Beckwith, Edwin L.
Boutemy, André, New York, N. Y. Ear ornament or similar article. 145,196; July 16.
Buchmann, Louis, assignee: *See*— Strauss, Luke J.
Christopher, Clinton J., Minneapolis, Minn. Show case or similar article. 145,197; July 16.
Coca-Cola Company, The, assignee: *See*— Loewy, Raymond.
Crystal Products Co., assignee: *See*— Fisk, Evelyne J.
Di Verdura, Fulco, New York, N. Y., assignor to Lucien Lelong, Inc., Chicago, Ill. Compact or similar article. 145,239; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,198; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,199; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,200; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,201; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,202; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,203; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,204; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,205; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,206; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,207; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,208; July 16.
Elliott, Donald L., assignor to Allied Plastics Company, Los Angeles, Calif. Compact or similar article. 145,209; July 16.
Fisk, Evelyne J., assignor to Crystal Products Co., Kansas City, Mo. Radio control knob. 145,210; July 16.
Feuer, Otto: *See*— Seidler, William, and Feuer.
Floorola Products, Inc., assignee: *See*— Newcomer, Ernest J.
Green, Warren B., Darien, Conn., assignor to Sears, Roebuck and Co., Chicago, Ill. Bathtub. 145,211; July 16.
Hardwick & Magee Company, assignee: *See*— Schmidt, Earl C. Wildgust, Allon C. C.
Havens, Cecil R., Kansas City, Mo. Jar or similar article. 145,212; July 16.
Hobé, William W., New York, N. Y. Brooch pin or similar article. 145,213; July 16.
Hobé, William W., New York, N. Y. Brooch pin or similar article. 145,214; July 16.
Karstadt, Clarence, Glen Ellyn, Ill. Vacuum cleaner casing. 145,215; July 16.
Karstadt, Clarence, Glen Ellyn, Ill. Vacuum cleaner casing. 145,216; July 16.
Kaupmann, Frederick, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Cigar lighter or similar article. 145,217; July 16.
Kaupmann, Frederick, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Cigar lighter or similar article. 145,218; July 16.
Kirchmer, Albert W. and L. M., St. Louis, Mo. Fluorescent lighting fixture. 145,219; July 16.
Kirchmer, Leo M.: *See*— Kirchmer, Albert W. and L. M.
Kissling, Edmund D., New York, N. Y. Plastic utility table. 145,220; July 16.
Lelong, Lucien, Inc., assignee: *See*— Di Verdura, Fulco.
Lerch, John B., Los Angeles, Calif. Lawn sprinkler. 145,221; July 16.
Loewy, Raymond, New York, N. Y., assignor to The Coca-Cola Company, Wilmington, Del. Refrigerator. 145,222; July 16.
Marcus, Samuel, New York, and E. J. Anton, Sunnyside, N. Y. Projector. 145,223; July 16.
Newcomer, Ernest J., assignor to Floorola Products, Inc., York, Pa. Scrubbing, waxing, and polishing machine. 145,224; July 16.
Newman, Richard, New York, N. Y. Magazine and paper holder. 145,225; July 16.
Pappas, Nick G., Detroit, Mich. Airplane. 145,226; July 16.
Pryne, Ralph, Los Angeles, Calif. Blow fan. 145,227; July 16.
Ronson Art Metal Works, Inc., assignee: *See*— Kaupmann, Frederick.
Schilz, John, Los Angeles, Calif. Condiment shaker. 145,228; July 16.
Schilz, John, Los Angeles, Calif. Condiment shaker. 145,229; July 19.
Schmidt, Earl C., assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet or the like. 145,230; July 16.
Schrader, Wilfred L., Hartville, Ohio. Wall supported radio. 145,231; July 16.
Sears, Roebuck and Co., assignee: *See*— Green, Warren B.
Seidler, William, and O. Feuer, New York, N. Y. Doll head. 145,232; July 16.

Seidler, William, and O. Feuer, New York, N. Y. Doll head. 145,233; July 16.
Smoleroff, Henry J., New York, N. Y. Pocket knife. 145,234; July 16.
Strauss, Luke J., Buffalo, N. Y., assignor of one-half to L. Buchmann. Lighter for cigarettes or the like. 145,235; July 16.
Sutherlin, John E., New Orleans, La. Jewelry finding. 145,236; July 16.
Syracuse Ornamental Co., assignee: *See*—
Bach, Alfons.
Thorne, Cecil B., New York, N. Y. Combination radio and phonograph cabinet. 145,237; July 16.
Van den Broek, Jan A., assignor to Argus, Incorporated, Ann Arbor, Mich. Projector. 145,238; July 16.
Walsh, James E., Burbank, Calif. Ice crusher or the like. 145,240; July 16.
Wildgust, Allon C. C., assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet or the like. 145,241; July 16.
Wildgust, Allon C. C., assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet or the like. 145,242; July 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Boyd R., Norristown, assignor to Armstrong Cork Company, Lancaster, Pa. Machine drive. 2,404,156; July 16.
Aerostream Pneumatic Conveyers, Inc., assignee: *See*—
Zimmermann, Carl F.
Agens, Maynard C., and B. W. Nordlander, Schenectady, N. Y., assignors to General Electric Company. Decarboxylated half esters of hydroxylated fatty oils and alpha unsaturated polycarboxylic acids. 2,404,204; July 16.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Hemmeter, George T.
Ahalt, Frank W., Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bonding structures. 2,404,157; July 16.
Air Reduction Company, Incorporated, assignee: *See*—
Yoch, August H.
Air-Way Electric Appliance Corporation, assignee: *See*—
Nuffer, Joseph H., and Latta.
Akerman, John D., Minneapolis, Minn. Pressure-applying aviator's suit with helmet. 2,404,020; July 16.
Alban, Clarence F., Pontiac, and S. R. Hood, Birmingham, assignors to W. M. Chace Company, Detroit, Mich. Thermostatic metal. 2,403,895; July 16.
Alexander, Paul, Berkhamsted, and C. Whiley, London, England. Vacuum pump of the vapor type. 2,404,021; July 16.
Alexander, Paul, Berkhamsted, and C. Whiley, London, England. Vapor vacuum pump of the double jet type. 2,404,022; July 16.
Alexander, Paul, Berkhamsted, and C. Whiley, London, England. Vapor vacuum pump. 2,404,023; July 16.
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,403,896; July 16.
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Leakage gauging device. 2,403,897; July 16.
Aller, Willis F., and L. J. Mahlmeister, assignors to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,403,898; July 16.
Allied Chemical & Dye Corporation, assignee: *See*—
Engel, Karl H.
Alrose Chemical Company, assignee: *See*—
Kroll, Harry H.
Ambruster, Cornelius, Roslyn, Pa., assignor to The Electric Storage Battery Company. Storage battery plate. 2,404,158; July 16.
American Aniline Products, Inc., assignee: *See*—
Armour, George L.
American Can Company, assignee: *See*—
Paynter, Horace J.
Peters, John F.
Pottle, Ralph K.
American Car and Foundry Company, assignee: *See*—
Dilley, June D.
American Cyanamid Company, assignee: *See*—
Carpenter, Erwin L.
Carpenter, Erwin L., Davis, and Wiedeman.
American Viscose Corporation, assignee: *See*—
Stanley, Richard W., and Lowe.
American Zinc, Lead & Smelting Company, assignee: *See*—
MacIntire, Walter H.
Amidon, Roy C., assignor to Vanity Fair Mills, Inc., Reading, Pa. Knitting machine needle and operating same. 2,403,961; July 16.
Ammen, Francis D., Los Angeles, Calif. Propeller pitch and diameter control. 2,403,899; July 16.
Ammon, Edward R., Reading, Pa. Stocking stacking and banding device. 2,404,205; July 16.
Archbold-Hagner Instrument Laboratory, Inc., assignee: *See*—
Hagner, Frederick H.
Armour, George L., assignor to American Aniline Products, Inc., New York, N. Y. Dye developer. 2,403,900; July 16.
Armstrong Cork Company, assignee: *See*—
Abbott, Boyd R.
Armstrong Siddeley Motors Limited, assignee: *See*—
Clark, Thomas, and Lindsey.
Arc Equipment Corporation, The, assignee: *See*—
Ginter, Charles W.
Arvidson, Paul W., Needles, Calif. Mining native copper. 2,404,206; July 16.
Aser, László, South Orange, N. J. Treating styrene. 2,403,962; July 16.
Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkenylation process. 2,403,963; July 16.
Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of aromatic derivatives. 2,404,120; July 16.
Babcock & Wilcox Company, The, assignee: *See*—
Harvey, James L.
Baillie, James C., Chicago, Ill., L. Heard, Hammond, Ind., and R. V. Shankland, assignors to Standard Oil Company, Chicago, Ill. Conversion catalyst. 2,404,024; July 16.
Baldwin Locomotive Works, The, assignee: *See*—
Link, Harry W.
Porteus, John H.
Ruge, Arthur C.
Tapper, Thomas P.
Ball, Albert L., Lewiston, N. Y., assignor, by mesne assignments, to United Cotton Products Company, Fall River, Mass. Abrasive belt. 2,404,207; July 16.
Bangham, Donald H., London, J. G. Bennett, Kingston-on-Thames, R. L. Brown, Liverpool, W. Hirst, Kingston-on-Thames, M. Pirani, Kingston Hill, and G. C. Phillpots, assignors to C. D. Patents Limited, London, England. Manufacture of molded articles. 2,404,208; July 16.
Bannon, Hohn H., Union, and H. N. Mims, Cranford, N. J., assignors to Standard Oil Development Company. Surface coating for packaging polymers. 2,403,964; July 16.
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Transfer roller for ink distributions. 2,404,159; July 16.
Barnes, Carl E., Acton, Mass., assignor to Polaroid Corporation, Dover, Del. Methacrylic esters and copolymers thereof. 2,404,267; July 16.
Barnes, Carl E., Belvidere, N. J., assignor to Polaroid Corporation, Cambridge, Mass. Methacrylic esters and copolymers thereof. 2,404,268; July 16.
Barnes, Joseph L., Indianapolis, Ind. Knife sharpener. 2,404,025; July 16.
Barnet Ensign Limited, assignee: *See*—
Hunter, Douglas G.
Bayles, John W., Roker, Sunderland, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric generator. 2,404,209; July 16.
Beard, Joseph G., Haddonfield, and R. W. Harralson, Masonville, N. J., assignors to Radio Corporation of America. Method of and system for translating signals. 2,404,026; July 16.
Bechler, André, Moutier, Switzerland. Motion-transmitting lever for automatic machine tools. 2,404,210; July 16.
Belanger, Albert P. D., Alton, Ill. Polygonal separable section container. 2,403,901; July 16.
Belanger, Louis, Salem, Mass. Spot facing tool. 2,404,027; July 16.
Bell, Robert S., Tulsa, and R. Davenport, Pryor, Okla., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitric acid concentration. 2,403,902; July 16.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Goodale, Walter D., Jr., Lewis, and Martin.
Graham, Robert E.
Koenig, Walter, Jr.
Koenig, Walter, Jr., and Ruppel.
Lacy, Lester Y.
Mallina, Rudolph F.
Mason, Warren P.
Potter, Ralph K.
Bemis Bro. Bag Company, assignee: *See*—
Williams, Russell J., and Davis.
Bendix Aviation Corporation, assignee: *See*—
Goepfrich, Rudolph A.
Mock, Frank C., and Partington.
Pontius, George W., III, Wilson, and Kuxmitz.
Schultz, Harold B.
Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Eaton, Wilfred A.
Bennett, George A., deceased, New Barnet, England; H. M. Bennett, executrix. Wheel for vehicle. 2,404,269; July 16.
Bennett, Hilda M., executrix: *See*—
Bennett, George A.

Bennett, John G.: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Phillpotts.

Bennett, Robert N.: *See*—
George, Charles L., and Bennett.

Bergel, Franz, N. C. Hindley, A. L. Morrison, and H. Rinderknecht, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-Le Roche Inc., Nutley, N. J. Manufacture of piperidine derivatives. 2,403,903; July 16.

Best, Albert De W., Sandusky, Ohio. Electric welding rod holder. 2,404,028; July 16.

Biddle, William P., Jr., and H. W. Sanford, Jr., assignors to H. W. Sanford, Knoxville, Tenn. Furnace stoker. 2,404,211; July 16.

Birk, Paul M., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Torque wrench. 2,404,029; July 16.

Birtman Electric Company, assignee: *See*—
French, Edward A., and Sporney.

Black, James J., assignor to The Trailmobile Company, Cincinnati, Ohio. Caster trailer. 2,404,121; July 16.

Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Headlight mounting. 2,403,904; July 16.

Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. Magnetron. 2,404,212; July 16.

Borden Company, The, assignee: *See*—
McClatchie, John M.

Bordon Mfg. Co., Inc., assignee:: *See*—
Donnelly, Thomas S., Jr.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Rosin carbonates. 2,404,213; July 16.

Boucke, Heinz, Berlin-Charlottenburg 2, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y. Electric control system. 2,404,160; July 16.

Bower, Byron F., assignor to Pines Engineering Company, Aurora, Ill. Indexing and chucking device. 2,404,161; July 16.

Bradley, William E., Northampton, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Band pass wave filter. 2,404,270; July 16.

Brandon, Thomas O., U. S. Navy. Stadimeter. 2,403,965; July 16.

Brassel, Jakob: *See*—
Straub, Fritz, and Brassel.

Brennan, Joseph B., assignee: *See*—
Monynihan, John J.

Brill, William E., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Engine accessory drive. 2,403,905; July 16.

Bristol Steel & Iron Works, assignee: *See*—
Ferguson, Robert O.

British Insulated Cables Limited, assignee: *See*—
Quayle, Joshua C., and Jones.

Brooks, James D.: *See*—
Kendall, John D., Fry, and Brooks.

Brown Instrument Company, The, assignee: *See*—
Harrison, Thomas R.
Wild, Rudolf F.

Brown, John R., Jr., Westfield, and I. E. Lightbown, Cranford, N. J., assignors to Standard Oil Development Company. Polymer slurry process. 2,403,966; July 16.

Brown, Joseph H., New York, N. Y. Making lamp shades and similar articles. 2,404,162; July 16.

Brown, Robert L.: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Phillpotts.

Browne, Cecil O., deceased, Buckinghamshire, by M. W. Browne, Gerrard's Cross, and E. W. Tole, Bower Ashton, Long Ashton, administrators, and H. W. Hobbs, Haslemere, assignors to Electric & Musical Industries, Limited, Hayes, England. Television system. 2,404,030; July 16.

Browne, Margaret W., administrator: *See*—
Browne, Cecil O., Browne, Tole, and Hobbs.

Brunner, Eugene E., assignor to Read Machinery Co. Inc., York, Pa. V-type belt. 2,404,271; July 16.

Buckeye Traction Ditcher Company, The, assignee: *See*—
George, Charles L., and Bennett.

Budd, Edward G., Manufacturing Company, assignee: *See*—
Strickland, Harold A., Jr.

Bunn, Charles H., Jr., Westfield, and L. W. Schrader, Elizabeth, N. J., assignors to Standard Oil Development Company. Corrosion preventing electrode. 2,404,031; July 16.

Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of keratinous material. 2,403,906; July 16.

Burks, George E., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Valve tappet mounting. 2,404,032; July 16.

Burrell, Harry, Paramus, N. J., assignor, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y. Cellulose ester composition containing a rosin ester, and preparing said rosin ester. 2,404,033; July 16.

Burrows, Lawton A., Woodbury, and G. A. Noddin, Wenonah, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Smoke pot igniter. 2,403,907; July 16.

Burt, Guy H., assignee, et al.: *See*—
Dansereau, Charles E.

Burt, Harry M., assignee et al.: *See*—
Dansereau, Charles E.

Busignies, Henri G., Forest Hills, assignor to International Standard Electric Corporation, New York, N. Y. Radio direction finder. 2,403,967; July 16.

Buxton, Loran O., Belleville, assignor to National Oil Products Company, Harrison, N. J. Butter product and producing the same. 2,404,034; July 16.

Buxton, Loran O., Maplewood, assignor to National Oil Products Company, Harrison, N. J. Butter extract. 2,404,035; July 16.

Buxton, Loran O., Maplewood, assignor to National Oil Products Company, Harrison, N. J. Production of butter extract. 2,404,036; July 16.

Buxton, Loran O., Maplewood, assignor to National Oil Products Company, Harrison, N. J. Extracting butter. 2,404,037; July 16.

California Research Corporation, assignee: *See*—
Cardwell, William T., Jr.

Callender's Cable & Construction Company, Limited, assignee: *See*—
Hamilton, George M.

Campbell, Lyman L.: *See*—
Hodson, George F., and Campbell.

Campbell, Rodney B., Van Nuys, Calif. Piston brake valve. 2,404,122; July 16.

Cangemi, Salvatore, Brooklyn, N. Y. Shoe construction. 2,404,214; July 16.

Carbide and Carbon Chemicals Corporation, assignee: *See*—
Stoops, William N., and Wilson.

Carborundum Company, The, assignee: *See*—
Ries, Kernell G., Roble, and Von Doenhoff.

Cardwell, William T., Jr., Whittier, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Treating mud-laden drilling fluids. 2,404,038; July 16.

Carlson, Theodore E., Cumberland, Md., assignor to Celanese Corporation of America. Winding apparatus. 2,403,908; July 16.

Carpenter, Erwin L., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Aliphatic oxynitriles. 2,404,164; July 16.

Carpenter, Erwin L., Old Greenwich, H. S. Davis, Riverside, and O. F. Wiedeman, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Refining crude olefinic nitriles. 2,404,163; July 16.

Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Broadcast antenna. 2,403,909; July 16.

Carver, Fred S., Short Hills, N. J. Pressing apparatus. 2,404,165; July 16.

Case, J. I., Company, assignee: *See*—
Rutter, Alvah E.

Castle, Boyd F., assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Oil burner. 2,404,039; July 16.

Caterpillar Tractor Co., assignee: *See*—
Burks, George E.

Cavanaugh, Robert M., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Slurry filtration. 2,404,215; July 16.

Celanese Corporation of America, assignee: *See*—
Carlson, Theodore E.

Chace, W. M., Company, assignee: *See*—
Alban, Clarence F., and Hood.

Chapman, Archibald J., Grosse Pointe, Mich., assignor to Eureka Williams Corporation. Demonstrating device for vacuum cleaners. 2,404,040. July 16.

Childers, Troy F., Joplin, Mo. Termite control device. 2,404,272; July 16.

Christensen, Niels C., Salt Lake City, Utah. Method of and apparatus for spraying. 2,404,273; July 16.

Christiansen, Andrew L., Willowbrook, Calif. Flaking machine for fish and the like. 2,403,910; July 16.

Christie, Stanley J. A., Oshawa, Ontario, Canada. Special tool. 2,404,274; July 16.

Chrysler Corporation, assignee: *See*—
Klinger, James D.
Staley, Allen C.
Wallace, David A.

Cincinnati Milling Machine Co., The, assignee: *See*—
Ernst, Hans.

Clark Equipment Company, assignee: *See*—
Williams, Alfred O.

Clark, Gilbert R.: *See*—
Hallborg, Henry E., Gillespie, and Clark.

Clark, Marion A., Tulare, Calif. Carrying scraper. 2,404,123; July 16.

Clark, Thomas, and W. H. Lindsey, Coventry, assignors to Armstrong Siddeley Motors Limited, Park Side, Coventry, England. Internal-combustion turbine plant. 2,404,275; July 16.

Clute, Gerald P., Drexel Hill, Pa., assignor to General Electric Company. Electric switch. 2,404,216; July 16.

Coats, Hugh L., Wheaton, assignor to Flexible Steel Lacing Company, Chicago, Ill. Applicator for belt fasteners. 2,404,041; July 16.

Cohen, Harold, Elizabeth, N. J. Tower construction. 2,404,276; July 16.

Coleman, Benjamin F., Prentiss, Miss. Multibarrel machine gun. 2,404,277; July 16.

Colgate-Palmolive-Peet Company, assignee: *See*—
Ittner, Martin H.

Collins, Arthur E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Spraying apparatus. 2,404,217; July 16.

Colonial Broach Company, assignee: *See*—
Thompson, Richard A.

Commercial Controls Corporation, assignee: *See*—
Ryan, Commodore D.

Cooper, Dexter P., Jr.: *See*—
Land, Edwin H., and Cooper.

Cottrell, C. B., & Sons Company, assignee: *See*—
Barber, Howard M.

Crabtree, J. A., & Co., Ltd., assignee: *See*—
Hill, Walter E., Wintle, and Morgan.

Craib, James F.: *See*—
Loughlin, Bernard D., and Craib.

Creed and Company Limited, assignee: *See*—
Thompson, Alfred Edward, and Salmon.

Crossley, Arthur, Wauregan, Conn., assignor to Wauregan Mills Incorporated. Apparatus for drawing. 2,404,218; July 16.

Crowley, Robert E., Baltimore, Md. Method of and means for recording. 2,403,911; July 16.

Curtiss-Wright Corporation, assignee: *See*—
Birk, Paul M.
Flader, Fredric E.
Steele, Frederick I.

Cusic, John W., assignor to G. D. Searle & Co., Skokie, Ill. Tertiary amino derivatives of dihydro-anthracene. 2,404,219; July 16.

Dailey, Hampton J., and L. C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron discharge device. 2,404,042; July 16.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Copolymers of divinyl benzene and vinyl acetate. 2,404,220; July 16.

Danilla, Emma G., Berlin Heights, Ohio. Device for use in roasting poultry and the like. 2,404,166; July 16.

Dansereau, Charles E., Lakewood, assignor of one-half to H. M. Burt, Narragansett, and one-half to G. H. Burt, Cranston, R. I. Tubular lamp mounting. 2,403,968; July 16.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car truck. 2,404,278; July 16.

Davenport, Robert: *See*—
Bell, Robert S., and Davenport.

Davis, Harold C.: *See*—
Williams, Russell J., and Davis.

Davis, Harold S.: *See*—
Carpenter, Erwin L., Davis, and Wiedeman.

Davis, Helen S., assignee: *See*—
Shumate, Frank D., and Saathoff.

Des Roches, Hilton H., Butte, Mont., assignor of one-half to C. Frassett, San Francisco, Calif. Toilet protective device. 2,404,124; July 16.

Detroit Harvester Company, assignee: *See*—
Kost, Harold W.

Dietiker, John D.: *See*—
Herman, Kenneth R., Robinson, and Dietiker.

Dilley, June D., Huntingdon, W. Va., assignor to American Car and Foundry Company, New York, N. Y. Check retainer. 2,404,043; July 16.

Dinnick, George M.: *See*—
Mouromtseff, Ilia E., and Dinnick.

Distillation Products, Inc., assignee: *See*—
Hickman, Kenneth C. D., and Perry.

Dodge, Adiel Y., Rockford, Ill. One-way clutch. 2,404,221; July 16.

Doll, Frank A., assignor to Link Engineering Co., Detroit, Mich. Press operating device. 2,403,912; July 16.

Doner, Ralph D., Auburn, Ala. Diffraction grating tool. 2,404,222; July 16.

Donnelly, Thomas S., Jr., assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,404,125; July 16.

Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Ultra short wave system. 2,404,279; July 16.

Dowty Equipment Limited, assignee: *See*—
Underwood, Cyril J.

Duane, James J., assignee: *See*—
Thomas, Albert.

Duddy, Joseph C., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Battery container and making same. 2,404,126; July 16.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Mann, Estle R.

Du Pont, E. I., de Nemours & Co., assignee: *See*—
Bell, Robert S., and Davenport.
Burke, William J.
Burrows, Lawton A., and Noddin.
Cavanaugh, Robert M.
Lawson, Walter E.
Lubs, Herbert A.
Rodman, Ernest A.
Rogers, Arthur O.
Vyverberg, John C., Jr.

Durdin, Augustus C., Jr., assignee: *See*—
Durdin, Augustus C., III.

Durdin, Augustus C., III, Skokie, Ill., assignor of twenty-four per cent to L. H. Durdin, Franklin, Pa., and fifty-two per cent to A. C. Durdin, Jr. Method of and apparatus for treating sewage. 2,404,223; July 16.

Durdin, Lewis H., assignee: *See*—
Durdin, Augustus C., III.

Dutcher, Harris A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of unsaturated nitriles. 2,404,280; July 16.

Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,404,281; July 16.

Electric & Musical Industries Limited, assignee: *See*—
Browne, Cecil O., and Hobbs.

Electric Storage Battery Company, The, assignee: *See*—
Ambruster, Cornelius.
Duddy, Joseph C.
Riggs, Harold C., and Smith.

Ellis, Arthur L., Deep River, Conn., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,403,913; July 16.

Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation. Resolution of heterocyclic nitrogen compound mixtures. 2,404,167; July 16.

Eppenbach, Edwin G., Manhasset, and H. Imshaug, Flushing, N. Y.; said Imshaug assignor to said Eppenbach. Vertical mill. 2,403,914; July 16.

Ernst, Hans, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Sensitive control mechanism. 2,404,127; July 16.

Eureka Williams Corporation, assignee: *See*—
Chapman, Archibald J.

Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Apparatus for deforming thin diaphragms. 2,403,915; July 16.

Falk, Marcus, Boston, Mass. Propelling device. 2,404,044; July 16.

Ferguson, Robert O., Bristol, Tenn., assignor to Bristol Steel Iron Works, Bristol, Va.-Tenn. Alignment holder for dies. 2,403,916; July 16.

Field, Herbert H., Rock Falls, Ill. Lock to secure nuts on bolts. 2,404,128; July 16.

Fink, Joseph A., Englewood, N. J. Pot and pan lifter and holder. 2,404,224; July 16.

Flader, Fredric E., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Airfoil mounting and actuating mechanism. 2,404,045; July 16.

Flatland, Martin, San Francisco, Calif. Electrical winding. 2,404,129; July 16.

Fledel-Beck, Jacob H., Dorchester, Mass. Split induction coil furnace. 2,403,969; July 16.

Flexible Steel Lacing Company, assignee: *See*—
Coats, Hugh L.

Flory, Leslie E., Oaklyn, N. J., E. A. Massa, Osborn, Ohio, and G. A. Morton, Haddon Heights, N. J., assignors to Radio Corporation of America. Television transmitting apparatus. 2,404,046; July 16.

Flory, Leslie E., and G. A. Morton, Princeton, N. J., assignors to Radio Corporation of America. Electronic computing device. 2,404,047; July 16.

Frank, Louis, Fellows, Calif. Strainer or egg poacher. 2,404,130; July 16.

Frasset, Christopher, assignee: *See*—
Des Roches, Hilton H.

French, Edward A., and G. Sporney, Chicago, Ill., assignor to Birtman Electric Company. Split cast cylindrical housing for suction cleaners. 2,403,970; July 16.

Fried, Joseph A., Haddon Heights, N. J., assignor to Radio Corporation of America. Making mica capacitors. 2,403,971; July 16.

Friedman, Bernard S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Extracting an aromatic hydrocarbon from a mixture containing other hydrocarbons. 2,403,972; July 16.

Fruth, Hal F., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Apparatus for making piezoelectric crystals. 2,404,282; July 16.

Fry, Douglas J.: *See*—
Kendall, John D., Fry, and Brooks.

Fusfeld, Herbert I.: *See*—
Read, Thomas A., Fusfeld, and Kitchen.

Galvin Manufacturing Corporation, assignee: *See*—
Fruth, Hal F.

Gaylord Products, Incorporated, assignee: *See*—
Norin, Allan A.

Geddes, Walter H., assignor to United Aircraft Products, Inc., Dayton, Ohio. Heat exchange unit. 2,404,168; July 16.

General Electric Company, assignee: *See*—
Agens, Maynard C., and Nordlander.
Bondley, Ralph J.
Clute, Gerald P.
D'Alelio, Gaetano F.
Gurewitsch, Anatole M.
Hall, Chester I.
Harlow, Winton G., Healis, and Lamb.
Jordan, William B.
Olson, Edwin N.
Parker, Earl R.
Short, Thomas T.
Urban, Fred O.
Whinnery, John R.
Worcester, Joseph A., Jr.

General Motors Corporation, assignee: *See*—
Blomberg, Martin P.
Brill, William E.
Lillquist, Torsten O.
Macan, Albert L.
McCormick, Francis H.
Schjolin, Hans O.

George, Charles L., and R. N. Bennett, assignors to The Buckeye Traction Ditcher Company, Findlay, Ohio. Material spreader hitch. 2,403,973; July 16.

Gepfert, Franklin G., Shaker Heights, Ohio. Drill. 2,404,048; July 16.

Gepfert, Franklin G., Shaker Heights, Ohio. Drill. 2,404,049; July 16.

Gidden, Norman L., New York, N. Y. Fastener. 2,404,169; July 16.

Gieringer, Carl K., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Electrode for diathermy treatments. 2,404,283; July 16.

Gieseke, Werner A., assignor to S. C. Hurley, Jr., Danville, Ill. Photoelectrically controlled amplifying circuit. 2,404,131; July 16.

Gilbert, George R., Elizabeth, N. J., assignor to Standard Oil Development Company. Production of motor fuels. 2,404,050; July 16.

Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,403,917; July 16.

Gillespie, Charles N.: *See*—
Hallborg, Henry E., Gillespie, and Clark.

Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car roof walk. 2,404,284; July 16.

Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Positioning and supporting device for car couplers. 2,404,285; July 16.

Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Blind riveter. 2,404,051; July 16.

Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Lubrication coupler. 2,404,052; July 16.

Glover, William C., Jr., Lee's Summit, Mo. Threading regulator for drill presses. 2,404,053; July 16.

Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake construction. 2,404,054; July 16.

Goodale, Walter D., Jr., Convent Station, N. J., B. F. Lewis, Bayside, N. Y., and W. H. Martin, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for locating the source of an explosion wave. 2,403,974; July 16.

Goodman Manufacturing Company, assignee: *See*—
Hagenbook, Loy D.
Wood, Frank J.

Goodrich, B. F., Company, The, assignee: *See*—
Collins, Arthur E.

Gorin, Everett, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Preparation of halides. 2,404,055; July 16.

Gorin, Everett, and A. G. Oblad, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of isoprene. 2,404,056; July 16.

Graham, Bert, deceased; P. L. Graham, administratrix, Tacoma, Wash. Cuspidor cleaner. 2,404,286; July 16.

Graham, Pearl L., administratrix: *See*—
Graham, Bert.

Graham, Robert E., Bronx, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic following system. 2,403,975; July 16.

Graphic Microfilm Service, Inc., assignee: *See*—
Place, Robert.

Green, Samuel T., Brooklyn, assignor to Picker X-Ray Corporation, New York, N. Y. Protective apron. 2,404,225; July 16.

Greer, Edward R., Waysata, Minn. Apparatus for removing snow and the like. 2,404,287; July 16.

Grosdoff, Igor E., Princeton, N. J., assignor to Radio Corporation of America. Operating the electronic chronographs. 2,403,918; July 16.

Gubelmann, William S., Convent, N. J. Cash register. 2,404,170; July 16.

Gurewitsch, Anatole M., Schnectady, N. Y., assignor to General Electric Company. High-frequency discharge device. 2,404,226; July 16.

Gustin, Daniel S., Bloomfield, and A. L. Herman, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. End-cap electrode for discharge lamps. 2,404,057; July 16.

Haas, P. R., assignee, et al.: *See*—
Lewis, James O.

Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,404,058; July 16.

Hagner, Frederick H., San Antonio, Tex., assignor to Archbold-Hagner Instrument Laboratory, Inc. Portable angle-measuring device. 2,403,919; July 16.

Hagner, Frederick H., assignor to Position Finder Corporation, San Antonio, Tex. Navigation and instruction instrument. 2,403,920; July 16.

Hall, Chester I., Vischer's Ferry, N. Y., assignor to General Electric Company. Electromagnetic control apparatus. 2,404,227; July 16.

Hall, Roy D., Pottersville, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric furnace. 2,404,059; July 16.

Hall, Roy D., Millington, and E. Romanelli, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. High temperature furnace. 2,404,060; July 16.

Hallborg, Henry E., Upper Montclair, N. J., C. N. Gillespie, Brooklyn, and G. R. Clark, Staten Island, N. Y., assignors to Radio Corporation of America. Synchronizing device. 2,403,921; July 16.

Hamilton, Charles D. P., Jr., assignee, et al.: *See*—
Walsh, John J.

Hamilton, Charles D. P., III, assignee, et al.: *See*—
Walsh, John J.

Hamilton, Everett R., assignee, et al.: *See*—
Walsh, John J.

Hamilton, Forest R., assignee, et al.: *See*—
Walsh, John J.

Hamilton, George M., assignor to Callender's Cable & Construction Company Limited, London, England. Manufacture of rubber in cellular form. 2,404,171; July 16.

Hamilton, Julian P., Pelly, and C. F. Jones, Goose Creek, Tex., assignors to Standard Oil Development Company. Filtering. 2,404,061; July 16.

Hamlin, Jerry F., Mill Valley, Calif. Hydraulic egg turning mechanism. 2,404,228; July 16.

Hammond, John H., Jr., and E. S. Purington, Gloucester, Mass., assignors to Radio Corporation of America, New York, N. Y. Selectivity by phase quadrature using triple selectivity circuits. 2,404,062; July 16.

Hamren, Joseph O., Minneapolis, Minn. Variable-speed transmission. 2,404,229; July 16.

Hanna, Clinton R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stabiliser apparatus. 2,404,172; July 16.

Hansen, John A., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Television signal generator. 2,404,173; July 16.

Harlow, Winton G., Upper Darby, G. A. Healis, Lansdowne, and D. B. Lamb, Springfield, Pa., assignors to General Electric Company. Dead-front safety switch. 2,404,230; July 16.

Harper, Elmer E., Monrovia, Calif., E. P. Harper, executrix of said E. E. Harper, deceased. Actuating means. 2,404,288; July 16.

Harper, Esther P., executrix: *See*—
Harper, Elmer E.

Harper, Lyndus E., assignor to Omega Machine Company, Kansas City, Mo. Variable-speed transmission. 2,404,231; July 16.

Harralson, Robert W.: *See*—
Beard, Joseph G., and Harralson.

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,404,342; July 16.

Harvey, James L., Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. System of pulverizing, feeding, and transporting of material. 2,403,976; July 16.

Hawthorne, Wendell P., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Catalytic hydrocarbon reactions. 2,403,922; July 16.

Hayward, John T., Tulsa, Okla. Apparatus for use in logging wells. 2,404,132; July 16.

Hazeltine Research, Inc., assignee: *See*—
Hansen, John A.
Loughline, Bernard H., and Craib.

Healis, George A.: *See*—
Harlow, Winton G., Healis, and Lamb.

Healy, Emmett, assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,404,063; July 16.

Heard, Joseph R., Jr., New York, N. Y., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Dichlorides of the ethylene series. 2,403,977; July 16.

Heard, Llewellyn: *See*—
Baillie, James C., Heard, and Shankland.

Heigl, John J., Cranford, and J. A. Wilson, Linden, N. J., assignors to Standard Oil Development Company. Apparatus for investigating absorption spectra of substances. 2,404,064; July 16.

Helms, James G., assignee: *See*—
Wilkinson, Charles W.

Hemmeter, George T., Berkeley, Calif., assignor to the United States of America, as represented by the Secretary of Agriculture. Device for peeling agricultural products. 2,403,923; July 16.

Henderson, Joseph E., Seattle, Wash., and R. B. Janes, Verona, N. Y.; said Henderson assignor to the United States of America, as represented by the Secretary of Navy, and said Janes assignor to Radio Corporation of America. Phototubes and manufacture. 2,404,343; July 16.

Henley's, W. T., Telegraph Works Company, Limited, assignee: *See*—
MacDonald, Hector A.

Hercules Powder Company, assignee: *See*—
Borglin, Joseph N.
Rummelsburg, Alfred L.
Spurlin, Harold M.

Herman, Alva L.: *See*—
Gustin, Daniel S., and Herman.

Herman, Kenneth R., J. Robinson, and J. D. Dietiker, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,403,924; July 16.

Heyden Chemical Corporation, assignee: *See*—
Burrell, Harry.

Hickman, Kenneth C. D., and E. S. Perry, assignors to Distillation Products, Inc., Rochester, N. Y. Vacuum distillation apparatus. 2,403,978; July 16.

Hicks, William B., and D. J. Saunders, Syracuse, assignors to The Solvay Process Company, New York, N. Y. Detergent composition. 2,404,289; July 16.

High Standard Manufacturing Company, The, assignee: *See*—
Swebilius, Carl G.

Hill, Irving, assignor to The Lawrence Paper Company, Lawrence, Kans. Controlled ventilated container. 2,404,065; July 16.

Hill, Justin D., assignor to The Lawrence Paper Company, Lawrence, Kans. Container and closure therefor. 2,404,067; July 16.

Hill, Maxwell H., Rochester, N. Y. Cap removers and support therefor. 2,404,066; July 16.

Hill, Walter E., Streetley, and T. D. G. Wintle, and R. W. Morgan, assignors to J. A. Crabtree & Co., Ltd., Walsall, England. Coupling for electrical wiring systems. 2,403,979; July 16.

Hindley, Nathan C.: *See*—
Bergel, Hindley, Morrison, and Rinderknecht.

Hines, Charles F., Clarksburg, W. Va. Ash tray. 2,404,174; July 16.

Hinman Milking Machine Co., Inc., assignee: *See*—
Hinman, Ralph L.

Hinman, Ralph L., deceased, Oneida, N. Y.; Oneida Valley National Bank, executor, assignor to Hinman Milking Machine Co., Inc., Oneida, N. Y. Milking machine. 2,404,068; July 16.

Hinman, Ralph L., assignor to Hinman Milking Machine Co., Inc., Oneida, N. Y. Milking machine. 2,404,069; July 16.

Hirmann, Julius, Hillside, N. J., assignor to Radio Corporation of America. Filamentary cathode. 2,404,070; July 16.

Hirsch, Morris, assignee, et al.: *See*—
Travis, Perice M.

Hirst, Wallace: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Philipotts.

Hobbs, Henry W.: *See*—
Browne, Cecil O., and Hobbs.

Hodson, George F., Altus, Okla., and L. L. Campbell, Riverdale, Ill., assignors to Wilson & Company, Inc. Centering device. 2,403,980; July 16.

Hoffmann-La Roche, Inc., assignee: *See*—
Bergel, Frans, Hindley, Morrison, and Rinderknecht.

Holden, Warwick C., and J. C. Naylor, Monkseaton, assignors to Vickers-Armstrongs Limited, London, England. Hydraulic pump of the radial cylinder type. 2,404,175; July 16.

Hood, Stanley R.: *See*—
Alban, Clarence F., and Hood.

Hoover, Walter S., Montreal, Quebec, Canada. Variable diameter and variable pitch propeller. 2,404,290; July 16.

Huelster, Otto J., Waterbury, Conn., assignor to Scovill Manufacturing Company. Electric contact snap fastener. 2,404,176; July 16.

Hunter, Douglas G., London, England, assignor to Barnet Ensign Limited. Roll-film winding mechanism. 2,404,291; July 16.

Hunter, Lawrence M., Toronto, Ontario, Canada. Combining and separating device. 2,404,232; July 16.

Hurley, Samuel C., Jr., assignee: *See*—
Gieseke, Wernew A.

Hurley, Samuel C., Jr., Danville, Ill. Mechanism for rotating articles. 2,404,233; July 16.

Hyman, Mark, Jr., assignor to Polaroid Corporation, Cambridge, Mass. Methacrylic ester and copolymers thereof. 2,404,292; July 16.

Ice, James N., assignor to Riverside Steel Company, Wheeling, W. Va. Bottle carrier. 2,404,133; July 16.

Ilford Limited, assignee: *See*—
Kendall, John D., Fry, and Brooks.

Imshaug, Henry: *See*—
Eppenbach, Edwin G., and Imshaug.

Industrial Rayon Corporation, assignee: *See*—
MacLaurin, Robert D.

International Standard Electric Corporation, assignee: *See*—
Busignies, Henri G.

Ittner, Martin H., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Manufacture of soap. 2,403,925; July 16.

Ivers-Lee Company, assignee: *See*—
Salfisberg, Leroy L.

Jackson, Carey B., Forest Hills, J. H. Schneider, Ross Huntingdon Township, Westmoreland County, and W. P. Yant, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Breathing apparatus. 2,403,981; July 16.

Janes, Robert B.: *See*—
Henderson, Joseph E., and Janes.

Jetschmann, Richard P., Milford, Conn. Pastry. 2,404,177; July 16.

Johnig, Charles E., Roselle, N. J., assignor to Standard Oil Development Company. Scrubbing dust-laden gases. 2,404,071; July 16.

Johnson, Everard L., Patchogue, N. Y. Retouching apparatus. 2,404,134; July 16.

Johnson, Harold L., Chicago, Ill. Adjustable blind awning. 2,404,178; July 16.

Johnson, Paul P., Willoughby, assignor to Thompson Products Inc., Cleveland, Ohio. Sheathed valve. 2,403,926; July 16.

Johnston, Alexander, Edinburgh 3, assignor to The North British Rubber Company Limited, Edinburgh, Scotland. Regeneration of waste rubber. 2,404,293; July 16.

Jones, Charles F.: *See*—
Hamilton, Julian P., and Jones.

Jones, Peter: *See*—
Quayle, Joshua C., and Jones.

Jordan, William B., Scotia, N. Y., assignor to General Electric Company. Integrator. 2,404,294; July 16.

Joy Manufacturing Company, assignee: *See*—
Wineman, Wade H.

Karasick, Samuel, Great Barrington, Mass. Magnetic device. 2,404,072; July 16.

Karfiol, Edward, Great Neck, and W. A. Roehm, Rockville Centre, assignors to Royal Lace Paper Works, Brooklyn, N. Y. Making ornamental articles. 2,404,073; July 16.

Kaywood Corporation, assignee: *See*—
Sherwood, Glenn L.

Keen, Thomas A., San Mateo, Calif., assignor of one-half to H. M. Smith, Chicago, Ill. Annunciator system. 2,404,074; July 16.

Kendall, John D., D. J. Fry, and J. D. Brooks, Ilford, assignors to Ilford Limited, Essex, England. Improvers for photographic emulsions. 2,403,927; July 16.

Kerr, Wallace E., Youngstown, Ohio. Drawing machine. 2,404,234; July 16.

Kharasch, Morris S., Chicago, Ill., assignor to Eli Lilly and Company, Indianapolis, Ind. Unsaturated organic compounds. 2,404,235; July 16.

Kiang, Piao, Washington, D. C. Fuse construction. 2,404,135; July 16.

King, Edward B., Haslemere, England. Electrical switching device. 2,404,179; July 16.

King, John W., Oak Park, and G. Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Burr removing apparatus. 2,404,180; July 16.

Kitchen, Sumner W.: *See*—
Read, Thomas A., Fusfeld, and Kitchen.

Klein, Victor G.: *See*—
Rotter, Lutwin C., and Klein.

Kleinholz, Milton P., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Composition. 2,403,928; July 16.

Klinger, James D., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Bearing. 2,404,295; July 16.

Klocke, William, Woodhaven, N. Y. Mechanical drawing press. 2,404,181; July 16.

Knauff, Mary A., Tucson, Ariz. Three-dimensional picture. 2,404,136; July 16.

Koenig, Walter, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Analysis and representation of complex waves. 2,403,982; July 16.

Koenig, Walter, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Representation of complex waves. 2,403,983; July 16.

Koenig, Walter, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound reproduction. 2,403,985; July 16.

Koenig, Walter, Jr., Clifton, N. J., and A. E. Ruppel, Queens Village, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Representation of complex waves. 2,403,984; July 16.

Kost, Harold W., Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich. Sheet metal fastening device. 2,404,236; July 16.

Kottas, Walter W., New Kensington, Pa. Bowling game. 2,404,296; July 16.

Krizsan, Stephen, Jr., Trenton, N. J. Spool for wire-stranding machines. 2,404,237; July 16.

Kroll, Harry H., Providence, assignor to Alrose Chemical Company, Cranston, R. I. Deterging, wetting, and emulsifying compositions. 2,404,297; July 16.

Kroll, Harry H., Chicago, Ill., and M. Welsberg, Providence, assignors to Alrose Chemical Company, Cranston, R. I. Saponaceous detergent having improved hard-water characteristics. 2,404,298; July 16.

Kuhn, Carl S., Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Catalytic reforming process. 2,403,929; July 16.

Kuhn, Carl S., Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Alkylation process. 2,403,930; July 16.

Kuhn, Carl S., Jr., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Catalytic alkylation process. 2,403,931; July 16.

Kummerow, William, Chicago, Ill. Window structure. 2,404,075; July 16.

Kump, Ernest J., Jr., Atherton, Calif. Furniture. 2,404,182; July 16.

Kusch, Polykarp: *See*—
Okress, Ernest C., and Kusch.

Kuzmitz, Frank V.: *See*—
Pontius, George W., III, Wilson, and Kuzmitz.

Kyrides, Lucas P., Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted imidazoles. 2,404,299; July 16.

Kyrides, Lucas P., Webster Groves, and F. B. Zienty, St. Louis, Mo., assignors to Monsanto Chemical Company. Substituted imidazoles. 2,404,300; July 16.

Lacy, Lester Y., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave translation. 2,403,986; July 16.

Lamb, Donald B.: *See*—
Harlow, Winton G., Healis, and Lamb.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Range finder. 2,404,301; July 16.

Land, Edwin H., Cambridge, Mass., and D. P. Cooper, Jr., Washington, D. C., assignors to Polaroid Corporation, Cambridge, Mass. Range finder. 2,404,302; July 16.

Landmeier, Edwin W., Erlanger, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Enclosed switch. 2,404,183; July 16.

Lansdowne Steel & Iron Company, assignee: *See*—
Layton, Le Roy.

Latta, Lynn H.: *See*—
Nuffer, Joseph H., and Latta,

Law, John C., Topeka, Kans., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,404,303; July 16.

Lawrence Paper Company, The, assignee: *See*—
Hill, Irving.
Hill, Justin D.

Lawson, Walter E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low-freezing oxidant. 2,403,932; July 16.

Layton, Le Roy, Lansdowne, assignor to Lansdowne Steel & Iron Company, Morton, Pa. Nosing-in apparatus for shell forgings. 2,404,304; July 16.

Leighton, John W., Port Huron, Mich. Adjustable threaded connection. 2,404,076; July 16.

Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Apparatus for developing light. 2,404,077; July 16.

Lewis, Benjamin F.: *See*—
Goodale, Walter D., Jr., Lewis, and Martin.

Lewis, James O., Houston, assignor, by direct and mesne assignments, of one-half to E. C. Will and one-sixteenth to P. R. Haas, Corpus Christi, Tex. Well flowing apparatus. 2,403,987; July 16.

Liebel-Flarsheim Company, The, assignee: *See*—
Gieringer, Carl K.

Lightbown, Irving E.: *See*—
Brown, John R., Jr., and Lightbown.

Likel, Harry C., Brooklyn, N. Y. Peak voltage indicator and regulator. 2,403,988; July 16.

Lillquist, Torsten O., Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich. Generating electric drive and control system. 2,403,933; July 16.

Lilly, Eli, and Company, assignee: *See*—
Kharasch, Morris S.

Lincoln Engineering Company, assignee: *See*—
Rotter, Lutwin C., and Klein.

Lindsey, William H.: *See*—
Clark, Thomas, and Lindsey.

Lindstrom, Thor G., Seattle, Wash. Building construction. 2,403,934; July 16.

Line Material Company, assignee: *See*—
Wiegand, David E.

Link Engineering Company, assignee: *See*—
Doll, Frank A.

Link, Harry W., Merion, Pa., assignor to The Baldwin Locomotive Works. Storage motion follow-up mechanism. 2,403,935; July 16.

Loback, Edgar A., New York, N. Y. Aircraft. 2,403,936; July 16.

Logansport Machine, Incorporated, assignee, et al.: *See*—
Parker, Arthur L.

Logus, Anthony T., Cedar Rapids, Iowa. Radial reciprocating piston device. 2,404,305; July 16.

Loughlin, Bernard D., Bayside, and J. F. Craib, Little Neck, N. Y., assignors, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Position-indicating system. 2,404,238; July 16.

Loughnane, Michael H., Little Falls, N. J. Mine detection device. 2,404,266; July 16.

Lowe, William B.: *See*—
Stanley, Richard W., and Lowe.

Lubs, Herbert A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of keratinous material. 2,403,937; July 16.

Luck, David G. C., Haddon Heights, N. J., assignor to Radio Corporation of America. Communication system. 2,404,306; July 16.

Ludel, William, New York, N. Y. Wheel dressing tool and making the same. 2,404,184; July 16.

Macan, Albert L., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Air brake signal system. 2,403,938; July 16.

Macdonald, Hector A., Gravesend, assignor to W. T. Henley's Telegraph Works Company Limited, Dorking, Surrey, England. Electric cable. 2,404,239; July 16.

MacIntire, Walter H., Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Treatment of dolomite and high-calcic limestones. 2,403,939; July 16.

MacIntire, Walter H., Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Production of magnesium thiosulfate and magnesium oxide from dolomite. 2,403,940; July 16.

MacLaren, James T., Los Angeles, Calif. Chute structure for incinerators. 2,403,941; July 16.

MacLaurin, Robert D., Lakewood, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Composition for conditioning thread. 2,404,240; July 16.

MacMillan, Charles W., Washington, D. C. Valve clearance eliminating device. 2,404,241; July 16.

Magdus, Joseph, Chicago, Ill. Vehicle wheel. 2,404,308; July 16.

Mahlmeister, Louis J.: *See*—
Aller, Willis F., and Mahlmeister.

Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Potentiometer device. 2,403,989; July 16.

Malter, Louis, Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,404,078; July 16.

Maniscalco, Peter, Jr.: *See*—
Maniscalco, Pietro and P.

Maniscalco, Pietro and P., Jr., Chicago, Ill., said Peter Maniscalco assignor to said Pietro Maniscalco. Compressor. 2,404,079; July 16.

Mann, Estle R., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Making inductance coils. 2,404,185; July 16.

Mariani, Peter, Thomaston, Conn. Wheeled toy. 2,404,186; July 16.

Martin, Joseph A., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,404,309; July 16.

Martin, William H.: *See*—
Goodale, Walter D., Jr., Lewis, and Martin.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compressional wave radiator. 2,403,990; July 16.

Massa, Ernest A.: *See*—
Flory, Leslie E., Massa, and Morton.

Mathers, Stephen P., Philadelphia, Pa., assignor to National Equipment Co., New York, N. Y. Stacking machine. 2,403,942; July 16.

Maurer, J. A., Inc., assignee: *See*—
Maurer, John A., Jr.

Maurer, John A., Jr., assignor to J. A. Maurer, Inc., New York, N. Y. Method of and means for recording electrical impulses and record produced thereby. 2,404,137; July 16.

Mayer, Alvin L., Cincinnati, Ohio. Apparatus for developing exposed photographic prints. 2,404,138; July 16.

McCallick, William P., assignor of fifteen per cent to R. M. Ruiz, El Paso, Tex. Railway car wheel truck. 2,404,310; July 16.

McClathchie, John M., Middletown, assignor to The Borden Company, New York, N. Y. Soldering machine. 2,403,943; July 16.

McCormick, Francis H., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,404,139; July 16.

McCulloch, Thomas B., Baytown, Tex., assignor to Standard Oil Development Company. Catalytic conversion process. 2,404,080; July 16.

McFall, Thurlow E., Sparta, Mich. Piston ring. 2,404,140; July 16.

Merck & Co., Inc., assignee: *See*—
Weijlard, John, and Tishler.

Merco-Trinkle Machine Co., assignee: *See*—
Trinkle, Dallas R.

Merrell, Wm. S., Company, The, assignee: *See*—
Shelton, Robert S.

Metropolitan-Vickers Electrical Company Limited, assignee: *See*—
Whalley, Harry, and Miller.

Millener, William H., assignor to Woodall-Duckham (1920) Limited, Guilford, England. Tubular heat exchange apparatus. 2,404,187; July 16.

Miller, Charles W.: *See*—
Whalley, Harry, and Miller.

Mims, Harvey N.: *See*—
Bannon, John H., and Mims.

Mine Safety Appliances Company, assignee: *See*—
Jackson, Carey B., Schneider, and Yant.
Murphy, Cornelius J., and Yant.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Gille, Willis H.

Mock, Frank C., and E. J. Partington, assignors to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,404,081; July 16.

Monsanto Chemical Company, assignee: *See*—
Kyrides, Lucas P.

Morgan, Richard W.: *See*—
Hill, Walter E., Wintle, and Morgan.

Morrison, Alexander L.: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.

Morton, George A.: *See*—
Flory, Leslie E., Massa, and Morton.

Moss, Lionel G., Dunbar, W. Va. Cigarette rolling device. 2,404,242; July 16.

Mouromtseff, Ilia E., Montclair, and G. M. Dinnick, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron discharge device. 2,404,082; July 16.

Moynihan, John J., Boston, Mass., assignor of one-half to J. B. Brennan, Cleveland, Ohio. Coordinating apparatus. 2,404,243; July 16.

Muller, Charles G., Elmhurst, Long Island, N. Y. Arch support. 2,403,944; July 16.

Murphy, Cornelius J., and W. P. Yant, assignors to Mine Safety Appliance Company, Pittsburgh, Pa. Breathing apparatus. 2,403,991; July 16.

Murray, Alan E., Wilmington, Del. Footwear. 2,404,084; July 16.

Muskegon Piston Ring Company, assignee: *See*—
Scarff, Harold M.

Musser, David M., Orange, N. J., assignor to Pacific Mills, Boston, Mass. Mildewproofing. 2,403,945; July 16.

National Equipment Co., assignee: *See*—
Mathers, Stephen P.

National Oil Products Company, assignee: *See*—
Buxton, Loran O.

National Steel Corporation, assignee: *See*—
Starr, Hugh O.

Navy, United States of America, as represented by the Secretary of, assignee: *See*—
Henderson, Joseph E., and Janes.

Naylor, Joshua C.: *See*—
Holden, Warwick C., and Naylor.

Nelson, Donald E.: *See*—
Okress, Ernest C., Nelson, and Retherford.

Nelson, Jennings, St. Paul, Minn. Razor blade holder. 2,404,141; July 16.

New Britain Machine Company, The, assignee: *See*—
Rockwell, Edward A.

Noddin, George A.: *See*—
Burrows, Lawton A., and Noddin.

Norin, Allan A., assignor to Gaylord Products Incorporated, Chicago, Ill. Hair curler. 2,403,992; July 16.

Norlander, Birger W.: *See*—
Agens, Maynard C., and Norlander.

North British Rubber Company Limited, The, assignee: *See*—
Johnston, Alexander.

Norton, John R., West Hartford, Conn. Bearing. 2,404,084; July 16.

Noyes, Hazelhurst R., Los Angeles, Calif. Propeller. 2,403,946; July 16.

Nuffer, Joseph H., Toledo, Ohio, and L. H. Latta, Los Angeles, Calif., assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Suction cleaner. 2,404,244; July 16.

Nyhus, Theodore J., Crane Valley, Saskatchewan, Canada. Door locking device. 2,403,993; July 16.

Oblad, Alex G.: *See*—
Gorin, Everett, and Oblad.

Okress, Ernest C., Montclair, and P. Kusch, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Coaxial line. 2,404,085; July 16.

Okress, Ernest C., Montclair, D. E. Nelson, East Orange, and R. C. Retherford, Newark, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Coupling device. 2,404,086; July 16.

Olsen, Anders C., Forest Hills, N. Y. Fastening device. 2,404,245; July 16.

Olson, Edwin N., Schenectady, N. Y., assignor to General Electric Company. Brush rigging. 2,404,246; July 16.

Omega Machine Company, assignee: *See*—
Harper, Lyndus E.

Oussani, James J., Brooklyn, N. Y. Electric fastener driving machine. 2,403,947; July 16.

Pacific Mills, assignee: *See*—
Musser, David M.

Parker Appliance Company, The, assignee, et al.: *See*—
Parker, Arthur L.

Parker, Arthur L., assignor of one-half to Logansport Machine, Incorporated, Logansport, Ind., and one-half to The Parker Appliance Company, Cleveland, Ohio. Tube coupling. 2,404,142; July 16.

Parker, Earl R., Schenectady, N. Y., assignor to General Electric Company. Strong, machinable, heat-resistant alloy. 2,404,247; July 16.

Parker, Earl R., Schenectady, N. Y., assignor to General Electric Company. Heat-resistant alloy. 2,404,248; July 16.

Parker Pen Company, The, assignee: *See*—
Healy, Emmett.

Parsons, Harrison O., Houston, Tex. Gauging and sampling device. 2,404,087; July 16.

Partington, Edward J.: *See*—
Mock, Frank C., and Partington.

Patent Button Company, The, assignee: *See*—
Purinton, Forrest G.

Patents, C. D., Limited, assignee: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Phillpotts.

Patents Research Corporation, assignee: *See*—
Boucke, Heinz.

Paynter, Horace J., Union, N. J., assignor to American Can Company, New York, N. Y. Spraying machine. 2,403,994; July 16.

Penaljo Company, assignee: *See*—
Walsh, John J.

Perry, Edmond S.: *See*—
Hickman, Kenneth C. D., and Perry.

Peters, Arthur W.: *See*—
Turin, John J., and Peters.

Peters, John F., Leonia, N. J., assignor to American Can Company, New York, N. Y. Making fiber container bodies. 2,403,995; July 16.

Philco Radio and Television Corporation, assignee: *See*—
Bradley, William E.

Phillips Petroleum Company, assignee: *See*—
Axe, William N.
Dutcher, Harris A.
Scarth, Virgil.

Phillips, Willis E., Deerfield, assignor to Zenith Radio Corporation, Chicago, Ill. Neutralized radio-frequency amplifier. 2,404,188; July 16.

Phillpotts, George C.: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Phillpotts.

Picker X-Ray Corporation, assignee: *See*—
Green, Samuel T.

Pines Engineering Company, assignee: *See*—
Bower, Byron F.

Pinkerton, Hugh W., Lakewood, Ohio. Wear protecting device for parallel conducting wires. 2,404,088; July 16.

Pirani, Marcello: *See*—
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Phillpotts.

Pittsburgh Coke & Chemical Company, assignee: *See*—
Riethof, George.

Place, Robert, assignor to Graphic Microfilm Service, Inc., Waltham, Mass, Microfilm projector. 2,404,189; July 16.

Plank, Leavern I., Santa Barbara, assignor to Shell Development Company, San Francisco, Calif. Valve actuating mechanism. 2,404,311; July 16.

Polaroid Corporation, assignee: *See*—
Barnes, Carl E.
Hyman, Mark, Jr.
Land, Edwin H.
Rogers, Howard G.

Pollock, Raphael C., New York, N. Y. Display device. 2,404,089; July 16.

Pontius, George W., III, A. P. Wilson, and F. V. Kuzmitz, assignors to Bendix Aviation Corporation, South Bend, Ind. Gun turret power control. 2,404,090; July 16.

Pope, Winslow B., Detroit, Mich., assignor, by mesne assignments, to United States of America. Cage member. 2,404,190; July 16.

Porteus, John H., Wellesley, Mass., assignor to The Baldwin Locomotive Works. Railway car tilting apparatus. 2,404,091; July 16.

Position Finder Corporation, assignee: *See*—
Hagner, Frederick H.

Potter, Goral O., Waubun, assignor of one-half to L. Roy, Mahnomen, Minn. Fish spear. 2,404,249; July 16.

Potter, Ralph K., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,403,996; July 16.

Potter, Ralph K., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Representation of complex waves. 2,403,997; July 16.

Pottle, Ralph K., assignor to American Can Company, New York, N. Y. Apparatus for securing a metallic annulus. 2,403,998; July 16.

Power Jets (Research & Development) Limited, assignee: *See*—
Whittle, Frank.

Preston, Everett A.: *See*—
Wilson, Lyndon F., and Preston.

Purington, Ellison S.: *See*—
Hammond, John J., Jr., and Purington.

Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Method of and apparatus for deep hole molding. 2,403,948; July 16.

Quayle, Joshua C., Helsby, and P. Jones, Kelsall, near Chester, assignors to British Insulated Cables Limited, Prescot, England. Dielectric heating electrode. 2,404,191; July 16.

Quincy Stove Manufacturing Company, The, assignee: *See*—
Castle, Boyd F.

Radio Corporation of America, assignee: *See*—
Beard, Joseph G., and Harralson.
Carter, Philip S.
Dow, Orville E.
Evans, John.
Flory, Leslie E., Massa, and Morton.
Fried, Joseph A.
Grosdoff, Igor E.
Hallborg, Henry E., Gillespie, and Clark.
Hammond, John H., Jr., and Purington.
Henderson, Joseph E., and Janes.
Hirmann, Julius.
Leverenz, Humboldt W.
Luck, David G. C.
Malter, Louis.
Rajchman, Jan A.
Roberts, Walter van B.
Schade, Otto H.
Schlesinger, Kurt.
Schock, Robert E.
Seeley, Stuart W.
Smith, Arthur Z.
Snyder, Richard L., Jr.
Wagner, Herbert M.
Whitaker, James N.

Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Computing system. 2,404,250; July 16.

Raytheon Manufacturing Company, assignee: *See*—
Smith, Charles G.

Read Machinery Co. Inc., assignee: *See*—
Brunner, Eugene E.

Read, Thomas A., H. I. Busfield, and S. W. Kitchen, Philadelphia, Pa. Sonic method for testing metal. 2,403,999; July 16.

Reason, Richard E., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Apparatus for measuring or indicating the roughness or undulations of surfaces. 2,404,143; July 16.

Retherford, Robert C.: *See*—
Okress, Ernest C., Nelson, and Retherford.

Reynolds, Frederick A., Denver, Colo. Ratchet mechanism. 2,404,092; July 16.

Reynolds Metals Company, assignee: *See*—
Reynolds, Richard S.

Reynolds, Richard S., assignor to Reynolds Metals Company, Richmond, Va. Reinforcing liner and package for cigarettes and other articles. 2,404,312; July 16.

Reyrolle, A., & Company Limited, assignee: *See*—
Bayles, John W.

Ries, Kernell G., Niagara Falls, N. P. Robie, Lewiston, and P. von Doenhoff, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive article and making. 2,404,192; July 16.

Riethof, George, Mount Lebanon, Pa., assignor to Pittsburgh Coke & Chemical Company. Recovery of pure 3-picoline. 2,403,949; July 16.

Riggs, Harold C., Langhorne Manor, and W. W. Smith, Philadelphia, Pa., assignors to The Electric Storage Battery Company. Acid-releasing means for deferred action type batteries. 2,404,144; July 16.

Rinderknecht, Heinrich: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.

Riverside Steel Company, assignee: *See*—
Ice, James N.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Antenna. 2,404,093; July 16.

Robertson, Anthony E., Roselle, N. J., assignor to Standard Oil Development Company. Motor fuels. 2,404,094; July 16.

Robie, Norman P.: *See*—
Ries, Kernell G., Robie, and Von Doenoff.

Robinson, James: *See*—
Herman, Kenneth R., Robinson, and Dietiker.

Rockwell, Edward A., Cleveland, Ohio, assignor to The New Britain Machine Company, New Britain, Conn. Accumulating apparatus. 2,404,095; July 16.

Rodman, Ernest A., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated fabric. 2,404,318; July 16.

Roehm, William A.: *See*—
Karfiol, Edward, and Roehm.

Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorinated methylene-bis-dimethyl hydantoin. 2,404,096; July 16.

Rogers, Howard G., Wellesley Hills, assignor to Polaroid Corporation, Cambridge, Mass. Molding apparatus. 2,404,314; July 16.

Romanelli, Emilio: *See*—
Hall, Roy D., and Romanelli.

Rosenthal, Nathan, Newton, Mass. Shank stiffener. 2,403,950; July 16.

Rossi, Irving, assignee, trustee: *See*—
Thomas, Harry W.

Rotter, Lutwin C., Maplewood, and V. G. Klein, assignors to Lincoln Engineering Company, St. Louis, Mo. Reciprocating engine. 2,404,315; July 16.

Roy, Loyd, assignee: *See*—
Potter, Goral O.

Royal Lace Paper Works, assignee: *See*—
Karfiol, Edward, and Roehm.

Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Variable resistor. 2,403,951; July 16.

Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Torquemeter. 2,403,952; July 16.

Ruiz, Raul M., assignee: *See*—
McCallick, William P.

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Stabilization of terpene product. 2,404,251; July 16.

Ruppel, Alfred E.: *See*—
Koenig, Walter, Jr., and Ruppel.

Ruppel, Frederick H., Pasadena, Calif. Ground mat. 2,404,097; July 16.

Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Offset disk harrow. 2,404,252; July 16.

Ryan, Commodore D., Los Angeles, Calif., assignor to Commercial Controls Corporation. Sealing and ejecting apparatus for mail treating machines. 2,404,193; July 16.

Saathoff, George W.: *See*—
Shumate, Frank D., and Saathoff.

Sack, Anni, Basel, Switzerland. Ampoule-syringe. 2,404,316; July 16.

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Tape applier. 2,404,317; July 16.

Salmon, Reginald D.: *See*—
Thompson, Alfred E., and Salmon.

Sanford, Hugh W., assignee: *See*—
Biddle, William P., Jr., and Sanford.

Sanford, Hugh W., Jr.: *See*—
Biddle, William P., Jr., and Sanford.

Sass, Max, New York, N. Y. Ironing board. 2,404,194; July 16.

Sauer, George, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,404,318; July 16.

Saunders, Donald J.: *See*—
Hicks, William B., and Sounders.

Scarff, Harold M., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Piston ring slotting machine. 2,404,146; July 16.

Scarth, Virgil, Bartlesville, Okla., assignor to Phillips Petroleum Company. Extractive distillation with furfural. 2,404,253; July 16.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Television transmitting system. 2,404,098; July 16.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Amplifying system. 2,404,099; July 16.

Scherrer, Harry A., San Diego, Calif. Lawn sprinkler. 2,403,953; July 16.

Scheu, Albert J., assignee et al.: *See*—
Walsh, John J.

Schjolin, Hans O., Pontiac, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Turbodrive and controls. 2,403,954; July 16.

Schlesinger, Kurt, West Lafayette, Ind., assignor to Radio Corporation of America. Electron tube circuit. 2,403,955; July 16.

Schlesinger, Kurt, West Lafayette, Ind., assignor to Radio Corporation of America. Storage amplifier circuit. 2,403,956; July 16.

Schlieben, Ernest W., Scarsdale, assignor to York Research Corporation, New York, N. Y. Cargo aircraft. 2,404,195; July 16.

Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of naphthenes. 2,404,100; July 16.

Schneider, John H.: *See*—
Jackson, Carey B., Schneider, and Yant.

Schock, Robert E., Riverhead, N. Y., assignor to Radio Corporation of America. Remote control of radio receivers. 2,404,101; July 16.

Schrader, Leo W.: *See*—
Bunn, Charles H., Jr., and Schrader.

Schultz, Harold B., assignor to Bendix Aviation Corporation, South Bend, Ind. Regulating valve. 2,404,102; July 16.

Schweickart, William M., Cleveland, Ohio. Coupling for coal feeding worms. 2,404,145; July 16.

Scott, Ruth P., executrix: *See*—
Scott, Winfield.

Scott, Winfield, deceased, by R. P. Scott, executrix, assignor to Wingfoot Corporation, Akron, Ohio. Isomerization of cis-alpha-beta unsaturated acid esters. 2,404,103; July 16.

Scovill Manufacturing Company, assignee: *See*—
Huelster, Otto J.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.

Seeley, Stuart W., Roslyn, N. Y., assignor to Radio Corporation of America. Multiple program system. 2,403,957; July 16.

Seeley, Stuart W., Roslyn, N. Y., assignor to Radio Corporation of America. Wave producing and wave frequency measuring device. 2,403,958; July 16.

Seeley, Stuart W., Bayside, N. Y., assignor to Radio Corporation of America. Radio beacon system. 2,404,196; July 16.

Shankland, Rodney V.: *See*—
Baille, James C., Heard, and Shankland.

Sheffield Corporation, The, assignee: *See*—
Aller, Willis F.
Aller, Willis F., and Mahlmeister.

Shell Development Company, assignee: *See*—
Plank, Leavern I.

Shelton, Robert S., Mariemont, assignor to The Wm. S. Merrell Company, Reading, Ohio. Butanolamine salts of theophylline. 2,404,319; July 16.

Shepardson, Robert M., Madison, N. J., assignor to Standard Oil Development Co. Producing ethyl benzene. 2,404,104; July 16.

Sherwood, Glenn L., assignor to Kaywood Corporation, Benton Harbor, Mich. Coating machine and coating. 2,404,000; July 16.

Shipley, Robert C., Kalamazoo, Mich. Cribbage board. 2,404,320; July 16.

Short, Thomas T., Fort Wayne, Ind., assignor to General Electric Company. Electrical apparatus. 2,404,254; July 16.

Shumate, Frank D., Larchmont, N. Y., and G. W. Saathoff, South Orange, N. J.; said Shumate assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., and said Saathoff assignor to H. S. Davis, Lexington, Mass. Condenser circulating system. 2,404,321; July 16.

Silberman, J. D., assignee et al.: *See*—
Travis, Pierce M.

Simmons, Parker T., San Francisco, Calif. Can opener. 2,403,959; July 16.

Sinclair Refining Company, assignee: *See*—
Kleinholz, Milton P.

Sirp, Emil, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article assembling apparatus. 2,404,197; July 16.

Smith, Arthur Z., Wading River, N. Y., assignor to Radio Corporation of America. Periodic momentary switch. 2,404,001; July 16.

Smith, Charles G., Medford, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical gaseous discharge lamp. 2,404,002; July 16.

Smith, Hannah M., assignee: *See*—
Keen, Thomas A.

Smith, Robley H., The Dalles, Oreg. Sandpaper holder. 2,404,105; July 16.

Smith, William W.: *See*—
Riggs, Harold C., and Smith.

Snyder, Richard L., Jr., Princeton, N. J., assignor to Radio Corporation of America. Electronic calculating device. 2,404,106; July 16.

Society of Chemical Industry in Basle, assignee: *See*—
Straub, Fritz, and Brassel.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Gorin, Everett.
Gorin, Everett, and Oblad.
Hawthorne, Wendell P.
Kuhn, Carl S., Jr.

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Detergent composition. 2,404,003; July 16.

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Detergent composition. 2,404,004; July 16.

Solvay Process Company, The, assignee: *See*—
Hicks, William B., and Saunders.

Southard, Stanley H., Richmond Hill, N. Y., assignor to Sun Chemical Corporation. Eraser composition. 2,404,322; July 16.

Sperry Gyroscope Company, Inc., assignee: *See*—
White, Walter T.

Sporney, George: *See*—
French, Edward A., and Sporney.

Spurlin, Harold M., Marshallton, assignor to Hercules Powder Company, Wilmington, Del. Resinate. 2,404,255; July 16.

Staley, Allen C., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Supercharger control apparatus. 2,404,323; July 16.

Staley, Allen C., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Supercharger control apparatus. 2,404,324; July 16.

Standard Oil Company, assignee: *See*—
Baille, James C., Heard, and Shankland.

Standard Oil Development Company, assignee: *See*—
Bannon, John H., and Mims.
Brown, John R., Jr., and Lightbown.
Bunn, Charles H., Jr., and Schrader.
Gilbert, George E.
Hamilton, J. P., and Jones.
Heigl, John J., and Wilson.
Jahnig, Charles E.
McCulloch, Thomas B.
Robertson, Anthony E.
Shepardson, Robert M.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Gilpin, Garth G.

Stanley, Richard W., Drexel Hill, and W. B. Lowe, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del. Thread-advancing device. 2,404,005; July 16.

Starr, Hugh O., Steubenville, Ohio, assignor to National Steel Corporation. Bloom wrench. 2,404,107; July 16.

Stauffacher, Warner and W. A., Minneapolis, Minn. Restraining garment for infants. 2,404,108; July 16.

Stauffacher, Wilma A.: *See*—
Stauffacher, Warner and W. A.

Steele, Frederick I., Snyder, N. Y., assignor to Curtiss-Wright Corporation. Combined headrest and emergency kit. 2,404,109; July 16.

Stoops, William N., South Charleston, W. Va., and A. L. Wilson, Sharpsburg, Pa., assignors to Carbide and Carbon Chemicals Corporation. Antistatic treatment of vinyl resin articles. 2,403,960; July 16.

Straub, Fritz, Kaiseraugst, near Basel, and J. Brassel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazo and polyazo benzidine type dyestuffs. 2,404,198; July 16.

Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Furnace heat indicator. 2,404,147; July 16.

Stuhlfauth, George: *See*—
King, John W., and Stuhlfauth.

Sun Chemical Corporation, assignee: *See*—
Southard, Stanley H.

Surface Combustion Corporation, assignee: *See*—
Turin, John J., and Peters.

Swebilius, Carl G., assignor to The High Standard Manufacturing Company, Hamden, Conn. Extractor-switch mechanism for machine guns. 2,404,325; July 16.

Tapp, Ernest T. J., Fleet, England. Mechanically propelled vehicle. 2,404,256; July 16.

Tapper, Thomas P., Prospect Park, Pa., assignor to The Baldwin Locomotive Works. Removable mandrel for belt stretcher. 2,404,013; July 16.

Taylor, Arthur G., Hadley, Barnet, assignor to F. J. Walker Engineering Company Limited, Barnet, England. Self-adjusting mechanism for hydraulic wheel brakes. 2,404,326; July 16.

Taylor, Taylor & Hobson Limited, assignee: *See*—
Reason, Richard E.

Telefonaktiebolaget L. M. Ericsson, assignee: *See*—
Werner, Sture E.

Teletype Corporation, assignee: *See*—
Zenner, Walter J.

Terpay, John J.: *See*—
Wolowicz, Chester S., and Terpay.

Thomas, Albert, Munhall, assignor to James J. Duane, Pittsburgh, Pa. Tool chuck. 2,404,006; July 16.

Thomas, Harry W., Miami Beach, Fla., assignor to I. Rossi, New York, N. Y., as trustee. Rollable window screen. 2,404,257; July 16.

Thompson, Alfred E., and R. D. Salmon, assignors to Creed and Company Limited, Croydon, England. Telegraph apparatus. 2,404,007; July 16.

Thompson Products Inc., assignee: *See*—
Johnson, Paul P.

Thompson, Richard A., assignor to Colonial Broach Company, Detroit, Mich. Grinding wheel dresser. 2,404,148; July 16.

Thornes, Fred, Toms River, N. J. Helicopter. 2,404,014; July 16.

Tighe, John C., Omaha, Nebr. Artificial tooth. 2,404,327; July 16.

Tishler, Max: *See*—
Weijlard, John, and Tishler.

Tole, Ernest W., administrator: *See*—
Browne, Cecil O., and Hobbs.

Trafton, Warren L., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Cable harness clamp. 2,404,110; July 16.

Trailmobile Company, The, assignee: *See*—
Black, James J.

Travis, Pierce M., Ridgewood, N. J., assignor, by mesne assignments, of one-fourth to J. D. Silberman and one-fourth to M. Hirsch, New York, N. Y. Stabilized dispersions and forming shaped articles. 2,404,008; July 16.

Trexler, Richard R., Evanston, Ill. Liquid dispensing apparatus. 2,404,258; July 16.

Trimble, Harold C., Miami Springs, Fla. Capsule container and vender. 2,404,009; July 16.

Trinkle, Dallas R., Dayton, Ohio, assignor to Merco-Trinkle Machine Co., San Francisco, Calif. Contouring machine. 2,404,149; July 16.

Turin, John J., West Newton, Mass., and A. W. Peters, assignors, by mesne assignments, to Surface Combustion Corporation, Toledo, Ohio. Fuel fired vacuum furnace. 2,404,328; July 16.

Underwood, Cyril J., assignor to Dowty Equipment Limited, Cheltenham, England. Resilient telescopic unit. 2,404,111; July 16.

Union Special Machine Company, assignee: *See*—
Sauer, George.

Union Switch and Signal Company, The, assignee: *See*—
Law, John C.

United Aircraft Products, Inc., assignee: *See*—
Geddes, Walter H.

United-Carr Fastener Corporation, assignee: *See*—
Trafton, Warren L.

United Cotton Products Company, assignee: *See*—
Ball, Albert L.

United Gas Improvement Company, The, assignee: *See*—
Soday, Frank J.

United States of America, assignee: *See*—
Pope, Winslow B.

Universal Oil Products Company, assignee: *See*—
Friedman, Bernard S.
Schmerling, Louis.
Zimmeraman, Gordon B.

Urban, Fred O., Fort Wayne, Ind., assignor to General Electric Company. Refrigerating machine. 2,404,010; July 16.

Urban, Fred O., Fort Wayne, Ind., assignor to General Electric Company. Refrigerating machine. 2,404,112; July 16.

Vanity Fair Mills, Inc., assignee: *See*—
Amidon, Roy C.

Veitch, Frederick J., Flushing, N. Y. Pipe fitting. 2,404,259; July 16.

Vicker-Armstrongs Limited, assignee: *See*—
Holden, Warwick C., and Naylor.

Vickers Incorporated, assignee: *See*—
Martin, Joseph A.
Ellis, Arthur L.
Herman, Kenneth R., Robinson, and Dietiker.

Von Doenhoff, Phyllis: *See*—
Ries, Kernell G., Robie, and Von Doenhoff.

Vyverberg, John C., Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating spent acid. 2,404,260; July 16.

Wadsworth Electric Manufacturing Company, The, assignee: *See*—
Landmeier, Edwin W.

Wagner, Herbert M., Long Branch, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,404,113; July 16.

Walker, Brooks, Piedmont, Calif. Liquid fuel burner. 2,404,015; July 16.

Walker, F. J., Engineering Company Limited, assignee: *See*—
Taylor, Arthur G.

Wallace, David A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Coupling unit. 2,404,329; July 16.

Wallace, David A., and E. C. Lee, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,404,330; July 16.

Walsh, John J., Des Peres, assignor to C. D. P., Jr., C. D. P., III, E. R., and F. R. Hamilton, and A. J. Scheu and J. J. Walsh, a partnership doing business under the trade-name, Penaljo Company, St. Louis, Mo. Shoe and making the same. 2,404,150; July 16.

Washam, William J., Harrisonburg, Va. Anchor. 2,404,151; July 16.

Waterman, Russell R., Lodi, Calif. Water feed system for boilers. 2,404,114; July 16.

Wauregan Mills Incorporated, assignee: *See*—
Crossley, Arthur.

Weijlard, John, Westfield, and M. Tishler, assignors to Merck & Co., Inc., Rahway, N. J. 2-sulphanilamidoquinoxaline. 2,404,199; July 16.

Weijlard, John, Westfield, and M. Tishler, assignors to Merck & Co., Inc., Rahway, N. J. 2-(4-succinyl-aminobenzene-sulphonamido)-quinoxaline. 2,404,200; July 16.

Weisberg, Mark: *See*—
Kroll, Harry H., and Weisberg.

Weller, Charles J., Coulee City, Wash. Anchoring bracket. 2,404,152; July 16.

Werner, Leo C.: *See*—
Dailey, Hampton J., and Werner.

Werner, Sture E., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Electromagnetic motor. 2,404,331; July 16.

Werner, Sture E., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Motor for telephone selectors. 2,404,332; July 16.

Western Electric Company, Incorporated, assignee: *See*—
Ahalt, Frank W.
King, John W., and Stuhlfauth.
Sirp, Emil.

Westinghouse Electric Corporation, assignee: *See*—
Dailey, Hampton J., and Werner.
Gustin, Daniel S., and Herman.
Hall, Roy D.
Hall, Roy D., and Romanelli.
Hanna, Clinton R.
Mouromtseff, Ilia E., and Dinnick.
Okress, Ernest C., and Kusch.
Okress, Ernest C., Nelson, and Retherford.
Wolowicz, Chester S., and Terpay.

Whalley, Harry, Darwen, and C. W. Miller, Sale, assignors to Metropolitan-Vickers Electrical Company Limited, London, England. Radio receiver. 2,404,333; July 16.

Whiley, Cecil: *See*—
Alexander, Paul, and Whiley.

Whinnery, John R., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency system. 2,404,261; July 16.

Whitaker, James N., West Englewood, N. J., assignor to Radio Corporation of America. Electrical circuit. 2,404,307; July 16.

White, Walter T., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Prediction apparatus. 2,404,011; July 16.

Whitfield, Joseph E., Hamilton, Ohio. Servomotor and control. 2,404,262; July 16.

Whittle, Frank, Rugby, assignor to Power Jets (Research & Development) Limited, London, England. Aircraft propulsion system and power unit. 2,404,334; July 16.

Whittle, Frank, Rugby, assignor to Power Jets (Research & Development) Limited, London, England. Liquid fuel burner, vaporizer, and combustion engine. 2,404,335; July 16.

Wicks, Geraldo C., Ramos Mejia, Argentina. Electric heater. 2,404,336; July 16.

Wiedeman, Oscar F.: *See*—
Carpenter, Erwin L., Davis, and Wiedeman.

Wiegand, David E., Zanesville, Ohio, assignor to Line Material Company, South Milwaukee, Wis. Making an electromagnetic device. 2,404,016; July 16.

Wild, Rudolf F., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and controlling apparatus. 2,404,344; July 16.

Wilhelm, Albert R., Louisville, Ky. Safety device for boat hoists. 2,404,153; July 16.

Wilkinson, Charles W., assignor to J. G. Helms, Plant City, Fla. Distributor shaft and camshaft adaptation. 2,404,017; July 16.

Will, E. C., assignee, et al.: *See*—
Lewis, James O.

Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Axle generator drive. 2,404,115; July 16.

Williams, Dayton M., Bynumville, Mo. Buck rake stacker. 2,404,154; July 16.

Williams, Russell J., Richmond Heights, and H. C. Davis, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag closure means and method. 2,404,337; July 16.

Wilson, Alexander L.: *See*—
Stoops, William N., and Wilson.

Wilson, Arthur P.: *See*—
Pontius, George W., III, Wilson, and Kuzmitz.

Wilson & Company, Inc., assignee: *See*—
Hodson, George F., and Campbell.

Wilson Engineering Corporation, assignee: *See*—
Wilson, Lyndon F., and Preston.

Wilson, James A.: *See*—
Heigl, John J., and Wilson.

Wilson, Lyndon F., and E. A. Preston, assignors to Wilson Engineering Corporation, Chicago, Ill. Separator for boiler blowoff products. 2,404,263; July 16.

Wineman, Wade H., Michigan City, Ind., assignor to Joy Manufacturing Company. Bit sharpening mechanism. 2,404,201; July 16.

Wingfoot Corporation, assignee: *See*—
Scott, Winfield.

Winslow, Charles A., Oakland, Calif. Combined bilge and tank washer and jet pump. 2,404,202; July 16.

Wintle, Thomas D. G.: *See*—
Hill, Walter E., Wintle, and Morgan.

Wittenmyer, Carlos, Mount Clemens, Mich. Posting machine. 2,404,264; July 16.

Wolowicz, Chester S., Bloomfield, and J. J. Terpay, Irvington, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Adjusting mechanism. 2,404,116; July 16.

Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Loading and feeding apparatus for coils of strip metal. 2,404,155; July 16.

Woodall-Duckham (1920) Limited, assignee: *See*—
Millener, William H.

Worcester, Joseph A., Jr., Bridgeport, Conn., assignor to General Electric Company. Noise suppression circuit. 2,404,338; July 16.

Worrall, Robert H., Honolulu, Hawaii. Radio direction finder. 2,404,012; July 16.

Worth, Joseph, New York, N. Y. Photographic frame rack. 2,404,117; July 16.

Worthington Pump and Machinery Corporation, assignee: *See*—
Shumate, Frank D., and Saathoff.

Wyandotte Chemicals Corporation, assignee: *See*—
Heard, Joseph R., Jr.

Yaggy, Bernard E., Waterloo, Iowa. Airplane landing gear. 2,404,018; July 16.

Yant, William P.: *See*—
Jackson, Carey B., Schneider, and Yant.
Murphy, Cornelius J., and Yant.

Yawman Metal Products, Inc., assignee: *See*—
Yawman, Victor G.

Yawman, Victor G., assignor to Yawman Metal Products, Inc., Rochester, N. Y. Method of making triggers. 2,404,118; July 16.

Yoch, August H., Melrose, Pa., assignor to Air Reduction Company, Incorporated. Billet nicking machine. 2,404,019; July 16.

York Research Corporation, assignee: *See*—
Schlieben, Ernest W.

Zanolli, David, San Francisco, Calif. Dispenser. 2,404,119; July 16.

Zenith Radio Corporation, assignee: *See*—
Phillips, Willis E.

Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,404,339; July 16.

Zienty, Ferdinand B.: *See*—
Kyrides, Lucas P., and Zienty.

Zimmerman, Gordon B., Western Springs, assignor to Universal Oil Products Company, Chicago, Ill. Production of high antiknock fuel. 2,404,340; July 16.

Zimmerman, Harry, New York, N. Y. Noise-making airplane toy. 2,404,265; July 16.

Zimmermann, Carl F., assignor to Aerostream Pneumatic Conveyers, Inc., Chicago, Ill. Exhauster. 2,404,203; July 16.

Zublin, John A., Los Angeles, Calif. Producing oil and retaining gas through deviating bores. 2,404,341; July 16.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Brassière. A. Licht. Re. 22,771; July 16.

Centrifugal apparatus. E. Roberts. Re. 22,772; July 16.

LIST OF PLANT INVENTIONS

Lily plant. F. Wurzlow, Sr. 708; July 16.

LIST OF DESIGN INVENTIONS

Airplane. N. G. Pappas. 145,226; July 16.
Bathtub. W. B. Green. 145,211; July 16.
Bracket, Wall. A. Bach. 145,194; July 16.
Cabinet, Combination radio and phonograph. C. B. Thorne. 145,237; July 16.
Carpet or the like. A. C. C. Wildgust. 145,241–2; July 16.
Carpet or the like. E. C. Schmidt. 145,230; July 16.
Case or similar article, Show. C. J. Christopher. 145,197; July 16.
Casing, Vacuum cleaner. C. Karstadt. 145,215–16; July 16.
Chest. E. L. Beckwith. 145,195; July 16.
Compact or similar article. D. L. Elliott. 145,198–209; July 16.
Compact or similar article. F. di Verdura. 145,239; July 16.
Crusher or the like, Ice. J. E. Walsh. 145,240; July 16.
Doll head. W. Seidler and O. Feuer. 145,232–3; July 16.
Fan, Blow. R. Pryne. 145,227; July 16.
Holder, Magazine and paper. R. Newman. 145,225; July 16.
Jar or similar article. C. R. Havens. 145,212; July 16.
Jewelry finding. J. E. Sutherlin. 145,236; July 16.
Knife, Pocket. H. J. Smoleroff. 145,234; July 16.
Lighter for cigarettes or the like. L. J. Strauss. 145,235; July 16.
Lighter or similar article, Cigar. F. Kaupmann. 145,217–18; July 16.
Lighting fixture, Fluorescent. A. W. and L. M. Kirchmer. 145,219; July 16.
Ornament or similar article, Ear. A. Boutemy. 145,196; July 16.
Pin or similar article, Brooch. W. W. Hobé. 145,213–14; July 16.
Projector. J. A. Van den Broek. 145,238; July 16.
Projector. S. Marcus and E. J. Anton. 145,223; July 16.
Radio control knob. E. J. Fisk. 145,210; July 16.
Radio, Wall supported. W. L. Schrader. 145,231; July 16.
Refrigerator. R. Loewy. 145,222; July 16.
Scrubbing, waxing, and polishing machine. E. J. Newcomer. 145,224; July 16.
Shaker, Condiment. J. Schilz. 145,228–9; July 16.
Sprinkler, Lawn. J. B. Lerch. 145,221; July 16.
Table, Plastic utility. E. D. Kissling. 145,220; July 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article and making. K. G. Ries, N. P. Robie, and P. Von Doenhoff. 2,404,192; July 16.
Abrasive belt. A. L. Ball. 2,404,207; July 16.
Accumulating apparatus. E. A. Rockwell. 2,404,095; July 16.
Acid concentration, Nitric. R. S. Bell and R. Davenport. 2,403,902; July 16.
Acid-releasing means for deferred action type batteries. H. C. Riggs and W. W. Smith. 2,404,144; July 16.
Acid, Treating spent. J. C. Vyverberg, Jr. 2,404,260; July 16.
Actuating means. E. E. Harper. 2,404,288; July 16.
Adjusting mechanism. C. S. Wolowicz and J. J. Terpay. 2,404,116; July 16.
Aircraft. E. A. Loback. 2,403,936; July 16.
Aircraft, Cargo. E. W. Schlieben. 2,404,195; July 16.
Aircraft propulsion system and power unit. F. Whittle. 2,404,334; July 16.
Airfoil mounting and actuating mechanism. F. E. Flader. 2,404,045; July 16.
Airplane landing gear. B. E. Yaggy. 2,404,018; July 16.
Aliphatic oxynitriles. E. L. Carpenter. 2,404,164; July 16.
Alloy: *See*—
  Heat-resistant alloy.
  Strong, machinable, heat-resistant alloy.
Alkenylation process. W. N. Axe. 2,403,963; July 16.
Alkylation process. C. S. Kuhn, Jr. 2,403,930; July 16.
Amplifier, Neutralized radio-frequency. W. E. Phillips. 2,404,188; July 16.
Amplifying system. O. H. Schade. 2,404,099; July 16.
Ampoule-syringe. A. Sack. 2,404,316; July 16.
Analysis and representation of complex waves. W. Koenig, Jr. 2,403,982; July 16.
Anchor. W. J. Washam. 2,404,151; July 16.
Anchoring bracket. C. J. Weller. 2,404,152; July 16.
Angle-measuring device, Portable. F. H. Hagner. 2,403,919; July 16.
Annunciator system. T. A. Keen. 2,404,074; July 16.
Antenna. W. van B. Roberts. 2,404,093; July 16.
Antenna, Broadcast. P. S. Carter. 2,403,909; July 16.
Apparatus for deforming thin diaphragms. J. Evans. 2,403,915; July 16.
Apparatus for developing exposed photographic prints. A. L. Mayer. 2,404,138; July 16.
Apparatus for developing light. H. W. Leverenz. 2,404,077; July 16.
Apparatus for drawing. A. Crossley. 2,404,218; July 16.
Apparatus for investigating absorption spectra of substances. J. J. Heigl and J. A. Wilson. 2,404,064; July 16.
Apparatus for making piezoelectric crystals. H. F. Fruth. 2,404,282; July 16.
Apparatus for measuring or indicating the roughness or undulations of surfaces. R. E. Reason. 2,404,143; July 16.
Apparatus for removing snow and the like. E. R. Greer. 2,404,287; July 16.
Apparatus for securing a metallic annulus. R. K. Pottle. 2,403,998; July 16.
Apparatus for shell forgings, Nosing-in. L. Layton. 2,404,304; July 16.
Apparatus for use in logging wells. J. T. Hayward. 2,404,132; July 16.
Apron, Protective. S. T. Green. 2,404,225; July 16.
Arch support. C. G. Muller. 2,403,944; July 16.
Aromatic derivatives, Production of. W. N. Axe. 2,404,120; July 16.
Ash tray. C. F. Hines. 2,404,174; July 16.
Assembling apparatus, Article. E. Sirp. 2,404,197; July 16.
Automatic following system. R. E. Graham. 2,403,975; July 16.
Awning, Adjustable blind. H. L. Johnson. 2,404,178; July 16.
Band pass wave filter. W. E. Bradley. 2,404,270; July 16.
Bearing. J. D. Klinger. 2,404,295; July 16.
Bearing. J. R. Norton. 2,404,084; July 16.
Belt, V-type. E. E. Brunner. 2,404,271; July 16.
Benzene, Producing ethyl. R. M. Shepardson. 2,404,104; July 16.
Bilge and tank washer and jet pump, Combined. C. A. Winslow. 2,404,202; July 16.
Billet nicking machine. A. H. Yoch. 2,404,019; July 16.
Bloom wrench. H. O. Starr. 2,404,107; July 16.
Board: *See*—
  Cribbage board.
  Ironing board.
Bottle carrier. J. N. Ice. 2,404,133; July 16.
Bracket: *See*—
  Anchoring bracket.
Brake construction. R. A. Goepfrich. 2,404,054; July 16.
Breathing apparatus. C. B. Jackson, J. H. Schneider, and W. P. Yant. 2,403,981; July 16.
Breathing apparatus. C. J. Murphy and W. P. Yant. 2,403,991; July 16.
Building construction. T. G. Lindstrom. 2,403,934; July 16.
Burner: *See*—
  Liquid fuel burner. Oil burner.
Burner, vaporizer, and combustion engine, Liquid fuel. F. Whittle. 2,404,335; July 16.
Burr removing apparatus. J. W. King and G. Stuhlfauth. 2,404,180; July 16.
Butanolamine salts of theophylline. R. S. Shelton. 2,404,319; July 16.
Butter extract. L. O. Buxton. 2,404,035; July 16.
Butter extract, Production of. L. O. Buxton. 2,404,036; July 16.
Butter, Extracting. L. O. Buxton. 2,404,037; July 16.
Butter product and producing same. L. O. Buxton. 2,404,034; July 16.
Cable: *See*—
  Electric cable.
Cable harness clamp. W. L. Trafton. 2,404,110; July 16.
Cage member. W. B. Pope. 2,404,190; July 16.
Calculating device, Electronic. R. L. Snyder, Jr. 2,404,106; July 16.
Capacitors, Making mica. J. A. Fried. 2,403,971; July 16.
Carrier: *See*—
  Bottle carrier.
Cash register. W. S. Gubelmann. 2,404,170; July 16.
Catalyst, Conversion. J. C. Baille, L. Heard, and R. V. Shankland. 2,404,024; July 16.
Catalytic alkylation process. C. S. Kuhn, Jr. 2,403,931; July 16.
Catalytic conversion process. T. B. McCulloch. 2,404,080; July 16.
Catalytic hydrocarbon reactions. W. P. Hawthorne. 2,403,922; July 16.
Catalytic reforming process. C. S. Kuhn, Jr. 2,403,929; July 16.
Cathode, Filamentary. J. Hirmann. 2,404,070; July 16.
Cellulose ester composition containing a rosin ester, and preparing said rosin ester. H. Burrell. 2,404,033; July 16.
Centering device. G. F. Hodson and L. L. Campbell. 2,403,980; July 16.
Charge forming device. F. C. Mock and E. J. Partington. 2,404,081; July 16.
Check retainer. J. D. Dilley. 2,404,043; July 16.
Chlorinated methylene-bis-dimethyl hydantoin. A. O. Rogers. 2,404,096; July 16.
Chronographs, Operating the electronic. I. E. Grosdoff. 2,403,918; July 16.
Circuit: *See*—
  Electrical circuit. Storage amplifier circuit.
  Electron tube circuit.
  Photoelectrically controlled amplifying circuit.
Circuits, Noise suppression. J. A. Worcester, Jr. 2,404,338; July 16.
Circulating system, Condenser. F. D. Shumate and G. W. Saathoff. 2,404,321; July 16.
Clamp: *See*—
  Cable harness clamp.
Cleaner: *See*—
  Cuspidor cleaner. Suction cleaner.
Cleaners, Demonstrating device for vacuum. A. J. Chapman. 2,404,040; July 16.
Closure means and method, Bag. R. J. Williams and H. C. Davis. 2,404,337; July 16.
Clutches, One-way. A. Y. Dodge. 2,404,221; July 16.
Coated fabric. E. A. Rodman. 2,404,313; July 16.
Coating machine and coating. G. L. Sherwood. 2,404,000; July 16.
Coaxial line. E. C. Okress and P. Kusch. 2,404,085; July 16.
Coils, Making inductance. E. R. Mann. 2,404,185; July 16.

Combining and separating device. L. McL. Hunter. 2,404,232; July 16.
Communication system. D. G. C. Luck. 2,404,306; July 16.
Complex waves, Representation of. W. Koenig, Jr. 2,403,983; July 16.
Complex waves, Representation of. W. Koenig, Jr., and A. E. Ruppel. 2,403,984; July 16.
Complex waves, Representation of. R. K. Potter. 2,403,997; July 16.
Composition. M. P. Kleinholz. 2,403,928; July 16.
Composition for conditioning thread. R. D. MacLaurin. 2,404,240; July 16.
Compressor. P. Maniscalco and P. Maniscalco, Jr. 2,404,079; July 16.
Computing system. J. A. Rajchman. 2,404,250; July 16.
Container: *See*—
Controlled ventilated container. Polygonal separable section container.
Container and closure therefor. J. D. Hill. 2,404,067; July 16.
Container and making same, Battery. J. C. Duddy. 2,404,126; July 16.
Container and vender, Capsule. H. C. Trimble. 2,404,009; July 16.
Container bodies, Making fiber. J. F. Peters. 2,403,995; July 16.
Contouring machine. D. R. Trinkle. 2,404,149; July 16.
Control apparatus. W. H. Gille. 2,403,917; July 16.
Control apparatus, Electromagnetic. C. I. Hall. 2,404,227; July 16.
Control apparatus, Supercharger. A. C. Staley. 2,404,323–4; July 16.
Control device, Termite. T. F. Childers. 2,404,272; July 16.
Control mechanism, Fluid pressure. W. A. Eaton. 2,404,281; July 16.
Control mechanism, Sensitive. H. Ernst. 2,404,127; July 16.
Control system, Electric. H. Boucke. 2,404,160; July 16.
Controlled ventilated container. I. Hill. 2,404,065; July 16.
Controlling apparatus, Railway traffic. J. C. Law. 2,404,303; July 16.
Conveyer, Shaker. L. D. Hagenbook. 2,404,058; July 16.
Coordinating apparatus. J. J. Moynihan. 2,404,243; July 16.
Copolymers of divinyl benzene and vinyl acetate. G. F. D'Alelio. 2,404,220; July 16.
Copper, Mining native. P. W. Arvidson. 2,404,206; July 16.
Coupler, Lubrication. C. W. Ginter. 2,404,052; July 16.
Coupling: *See*—
Tube coupling.
Coupling device. E. C. Okress, D. E. Nelson, and R. C. Retherford. 2,404,086; July 16.
Coupling for coal feeding worms. W. M. Schweickart. 2,404,145; July 16.
Coupling unit. D. A. Wallace. 2,404,329; July 16.
Cribbage board. R. C. Shipley. 2,404,320; July 16.
Curler, Hair. A. A. Norin. 2,403,992; July 16.
Cuspidor cleaner. B. Graham. 2,404,286; July 16.
Dead-front safety switch. W. G. Harlow, G. A. Healls, and D. B. Lamb. 2,404,230; July 16.
Decarboxylated half esters of hydroxylated fatty oils and alpha unsaturated polycarboxylic acids. M. C. Agens and B. W. Nordlander. 2,404,204; July 16.
Deep hole molding, Method of and apparatus for. F. G. Purinton. 2,403,948; July 16.
Detection device, Mine. M. H. Loughnane. 2,404,266; July 16.
Detergent composition. W. B. Hicks and D. J. Saunders. 2,404,289; July 16.
Detergent composition. F. J. Soday. 2,404,003–4; July 16.
Detergent having improved hardwater characteristics, Saponaceous. H. H. Kroll and M. Weisberg. 2,404,298; July 16.
Deterging, wetting, and emulsifying compositions. H. H. Kroll. 2,404,297; July 16.
Device for peeling agricultural products. G. T. Hemmeter. 2,403,923; July 16.
Device for roasting poultry and the like. E. G. Danilla. 2,404,166; July 16.
Dichlorides of the ethylene series. J. R. Heard, Jr. 2,403,977; July 16.
Diffraction grating tool. R. D. Doner. 2,404,222; July 16.
Dimensional picture, Three. M. A. Knauff. 2,404,136; July 16.
Disazo and polyazo benzidine type dyestuffs. F. Straub and J. Brassel. 2,404,198; July 16.
Dispenser. D. Zanolli. 2,404,119; July 16.
Dispersions and forming shaped articles, Stabilized. P. M. Travis. 2,404,008; July 16.
Display device. R. C. Pollock. 2,404,089; July 16.
Distillation apparatus, Vacuum. K. C. D. Hickman and E. S. Perry. 2,403,978; July 16.
Dolomite and high-calcic limestones, Treatment of. W. H. MacIntire. 2,403,939; July 16.
Domestic appliance. F. H. McCormick. 2,404,139; July 16.
Drawing machine. W. E. Kerr. 2,404,234; July 16.
Dresser, Grinding wheel. R. A. Thompson. 2,404,148; July 16.
Drill. F. G. Gepfert. 2,404,048–9; July 16.
Drive: *See*—
Machine drive.
Drive and control system, Generating electric. T. O. Lillquist. 2,403,933; July 16.
Dye developer. G. L. Armour. 2,403,900; July 16.
Egg turning mechanism, Hydraulic. J. F. Hamlin. 2,204,228; July 16.
Electric cable. H. A. Macdonald. 2,404,239; July 16.
Electric contact snap fastener. O. J. Huelster. 2,404,176; July 16.
Electric furnace. R. D. Hall. 2,404,059; July 16.
Electric generator. J. W. Bayles. 2,404,209; July 16.
Electric heater. G. C. Wicks. 2,404,336; July 16.
Electric switch. G. P. Clute. 2,404,216; July 16.
Electric welding rod holder. A. De W. Best. 2,404,028; July 16.
Electrical apparatus. T. T. Short. 2,404,254; July 16.
Electrical circuit. J. N. Whitaker. 2,404,307; July 16.
Electrical gaseous discharge lamp. C. G. Smith. 2,404,002; July 16.
Electrical impulses and record produced thereby, Recording. J. A. Maurer, Jr. 2,404,137; July 16.
Electrical winding. M. Flatland. 2,404,129; July 16.
Electrical wiring systems, Coupling for. W. E. Hill and T. D. G. Wintle and R. W. Morgan. 2,403,979; July 16.
Electrode, Corrosion preventing. C. H. Bunn, Jr., and L. W. Schrader. 2,404,031; July 16.
Electrode, Dielectric heating. J. C. Quayle and P. Jones. 2,404,191; July 16.
Electrode for diathermy treatments. C. K. Gieringer. 2,404,283; July 16.
Electrode for discharge lamp, End-cap. D. S. Gustin and A. L. Herman. 2,404,057; July 16.
Electrode holder. T. S. Donnelly, Jr. 2,404,125; July 16.
Electromagnetic device, Making. D. E. Wiegand. 2,404,016; July 16.
Electromagnetic motor. S. E. Werner. 2,404,331; July 16.
Electron discharge apparatus. R. K. Potter. 2,403,996; July 16.
Electron discharge device. H. J. Dailey and L. C. Werner. 2,404,042; July 16.
Electron discharge device. L. Malter. 2,404,078; July 16.
Electron discharge device. I. E. Mouromtseff and G. M. Dinnick. 2,404,082; July 16.
Electron discharge device. H. M. Wagner. 2,404,113; July 16.
Electron tube circuit. K. Schlesinger. 2,403,955; July 16.
Electronic computing device. L. E. Flory and G. A. Morton. 2,404,047; July 16.
Eliminating device, Valve clearance. C. W. MacMillan. 2,404,241; July 16.
Enclosed switch. E. W. Landmeier. 2,404,183; July 16.
Engine: *See*—
Reciprocating engine.
Engine accessory drive. W. E. Brill. 2,403,905; July 16.
Eraser composition. S. H. Southard. 2,404,322; July 16.
Exhauster. C. F. Zimmermann. 2,404,203; July 16.
Extractive distillation with furfural. V. Scarth. 2,404,253; July 16.
Extractor-switch mechanism for machine guns. C. G. Swebilius. 2,404,325; July 16.
Fastener: *See*—
Electric contact snap fastener.
Fastener. N. L. Gidden. 2,404,169; July 16.
Fastener driving machine, Electric. J. J. Oussani. 2,403,947; July 16.
Fasteners, Applicator for belt. H. L. Coats. 2,404,041; July 16.
Fastening device. A. C. Olsen. 2,404,245; July 16.
Fastening device, Sheet metal. H. W. Kost. 2,404,236; July 16.
Feed system for boilers, Water. R. R. Waterman. 2,404,114; July 16.
Filter: *See*—
Band pass wave filter.
Filtering. J. P. Hamilton and C. F. Jones. 2,404,061; July 16.
Fluids, Treating mud-laden drilling. W. T. Cardwell, Jr. 2,404,038; July 16.
Follow-up mechanism, Storage motion. H. W. Link. 2,403,935; July 16.
Footwear. A. E. Murray. 2,404,083; July 16.
Fuel fired vacuum furnace. J. J. Turin and A. W. Peters. 2,404,328; July 16.
Fuel, Production of high antiknock. G. B. Zimmerman. 2,404,340; July 16.
Fuels, Motor. A. E. Robertson. 2,404,094; July 16.
Furnace: *See*—
Electric furnace. Split induction coil furnace.
Fuel fired vacuum furnace.
High temperature furnace.
Furnace heat indicator. H. A. Strickland, Jr. 2,404,147; July 16.
Furniture. E. J. Kump, Jr. 2,404,182; July 16.

Fuse construction. P. Kiang. 2,404,135; July 16.
Game, Bowling. W. W. Kottas. 2,404,296; July 16.
Garment for infants, Restraining. W. and W. A. Stauffacher. 2,404,108; July 16.
Gases, Scrubbing dust-laden. C. E. Johnig. 2,404,071; July 16.
Gauging and sampling device. H. O. Parsons. 2,404,087; July 16.
Gauging device. W. F. Aller. 2,403,896; July 16.
Gauging device. W. F. Aller and L. J. Mahlmeister. 2,403,898; July 16.
Gauging device, Leakage. W. F. Aller. 2,403,897; July 16.
Gear: *See*—
Airplane landing gear.
Generator: *See*—
Electric generator.
Television signal generator.
Generator drive, Axle. A. O. Williams. 2,404,115; July 16.
Gun, Multibarrel machine. B. F. Coleman. 2,404,277; July 16.
Halides, Preparation of. E. Gorin. 2,404,055; July 16.
Harrow, Offset disk. A. E. Rutter. 2,404,252; July 16.
Headlight mounting. M. P. Blomberg. 2,403,904; July 16.
Headrest and emergency kit, Combined. F. I. Steele. 2,404,109; July 16.
Heat exchange apparatus, Tubular. W. H. Millener. 2,404,187; July 16.
Heat exchange unit. W. H. Geddes. 2,404,168; July 16.
Heater: *See*—
Electric heater.
Heat-resistant alloy. E. R. Parker. 2,404,248; July 16.
Helicopter. F. Thornes. 2,404,014; July 16.
High-frequency discharge device. A. M. Gurewitsch. 2,404,226; July 16.
High temperature furnace. R. D. Hall and E. Romanelli. 2,404,060; July 16.
Hitch, Material spreader. C. L. George and R. N. Bennett. 2,403,973; July 16.
Holder: *See*—
Electric welding rod holder. Razor blade holder.
Electrode holder. Sandpaper holder.
Holder for dies, Alignment. R. O. Ferguson. 2,403,916; July 16.
Housing for suction cleaners, Split cast cylindrical. E. A. French and G. Sporney. 2,403,970; July 16.
Hydrocarbon from a mixture containing other hydrocarbons, Extracting an aromatic. B. S. Friedman. 2,403,972; July 16.
Igniter, Smoke pot. L. A. Burrows and G. A. Noddin. 2,403,907; July 16.
Imidazoles, Substituted. L. P. Kyrides. 2,404,299–300; July 16.
Indexing and chucking device. B. F. Bower. 2,404,161; July 16.
Indicator: *See*—
Furnace heat indicator.
Indicator and regulator, Peak voltage. H. C. Likel. 2,403,988; July 16.
Instrument, Navigation and instruction. F. H. Hagner. 2,403,920; July 16.
Integrator. W. B. Jordan. 2,404,294; July 16.
Ironing board. M. Sass. 2,404,194; July 16.
Isomerization of cis-alpha-beta unsaturated acid esters. W. Scott. 2,404,103; July 16.
Isoprene, Manufacture of. E. Gorin and A. G. Oblad. 2,404,056; July 16.
Keratinous material, Treatment of. W. J. Burke. 2,403,906; July 16.
Keratinous material, Treatment of. H. A. Lubs. 2,403,937; July 16.
Lamp: *See*—
Electrical gaseous discharge lamp.
Lever for automatic machine tools, Motion-transmitting. A. Bechler. 2,404,210; July 16.
Lifter and holder, Pot and pan. J. A. Fink. 2,404,224; July 16.
Liner and package for cigarettes and other articles, Reinforcing. R. S. Reynolds. 2,404,312; July 16.
Liquid dispensing apparatus. R. R. Trexler. 2,404,258; July 16.
Liquid fuel burner. B. Walker. 2,404,015; July 16.
Loading and feeding apparatus for coils of strip metal. F. J. Wood. 2,404,155; July 16.
Locating the source of an explosion wave, System for. W. D. Goodale, Jr., B. F. Lewis, and W. H. Martin. 2,403,974; July 16.
Lock to secure nuts on bolts. H. H. Field. 2,404,128; July 16.
Locking device, Door. T. J. Nyhus. 2,403,993; July 16.
Machine drive. B. R. Abbott. 2,404,156; July 16.
Machine for fish and the like, Flaking. A. L. Christiansen. 2,403,910; July 16.
Magnesium thiosulfate and magnesium oxide from dolomite, Production of. W. H. MacIntire. 2,403,940; July 16.
Magnetic device. S. Karasick. 2,404,072; July 16.
Magnetron. R. J. Bondley. 2,404,212; July 16.
Mandrel for belt stretcher, Removable. T. P. Tapper. 2,404,013; July 16.
Mat, Ground. F. H. Ruppel. 2,404,097; July 16.
Measuring and control apparatus. T. R. Harrison. 2,404,342; July 16.
Measuring and controlling apparatus. R. F. Wild. 2,404,344; July 16.
Measuring device, Wave producing and wave frequency. S. W. Seeley. 2,403,958; July 16.
Mechanical drawing press. W. Klocke. 2,404,181; July 16.
Mechanically propelled vehicle. E. T. J. Tapp. 2,404,256; July 16.
Mechanism for rotating articles. S. C. Hurley, Jr. 2,404,233; July 16.
Methacrylic ester and copolymers thereof. M. Hyman, Jr. 2,404,292; July 16.
Methacrylic esters and copolymers thereof. C. E. Barnes. 2,404,267–8; July 16.
Mildewproofing. D. M. Musser. 2,403,945; July 16.
Milking machine. R. L. Hinman. 2,404,068–9; July 16.
Mill: *See*—
Vertical mill.
Molded articles, Manufacture of. D. H. Bangham, J. G. Bennett, R. L. Brown, W. Hirst, M. Pirani, and G. C. Phillpotts. 2,404,208; July 16.
Molding apparatus. H. G. Rogers. 2,404,314; July 16.
Motor: *See*—
Electromagnetic motor.
Motor for telephone selectors. S. E. Werner. 2,404,332; July 16.
Motor fuels, Production of. G. R. Gilbert. 2,404,050; July 16.
Mounting: *See*—
Headlight mounting. Valve tappet mounting.
Tubular lamp mounting.
Multiple program system. S. W. Seeley. 2,403,957; July 16.
Naphthenes, Alkylation of. L. Schmerling. 2,404,100; July 16.
Needle and operating same, Knitting machine. R. C. Amidon. 2,403,961; July 16.
Nitriles, Production of unsaturated. H. A. Dutcher. 2,404,280; July 16.
Oil and retaining gas through deviating bores, Producing. J. A. Zublin. 2,404,341; July 16.
Oil burner. B. F. Castle. 2,404,039; July 16.
Olefinic nitriles, Refining crude. E. L. Carpenter, H. S. Davis, and O. F. Wiedeman. 2,404,163; July 16.
Opener, Can. P. T. Simmons. 2,403,959; July 16.
Organic compounds, Unsaturated. M. S. Kharasch. 2,404,235; July 16.
Ornamental articles, Making. E. Karfiol and W. A. Roehm. 2,404,073; July 16.
Oxidant, Low-freezing. W. E. Lawson. 2,403,932; July 16.
Packaging polymers, Surface coating for. H. H. Bannon and H. N. Mims. 2,403,964; July 16.
Pastry. R. P. Jetschmann. 2,404,177; July 16.
Pen, Fountain, E. Healy. 2,404,063; July 16.
Periodic momentary switch. A. Z. Smith. 2,404,001; July 16.
Photoelectrically controlled amplifying circuit. W. A. Gieseke. 2,404,131; July 16.
Photographic emulsions, Improvers for. J. D. Kendall, D. J. Fry, and J. D. Brooks. 2,403,927; July 16.
Photographic frame rack. J. Worth. 2,404,117; July 16.
Phototubes and manufacture. J. E. Henderson and R. B. Janes. 2,404,343; July 16.
Pipe fitting. F. J. Veitch. 2,404,259; July 16.
Piperidine derivatives, Manufacture of. F. Bergel, N. C. Hindley, A. L. Morrison, and H. Rinderknecht. 2,403,903; July 16.
Piston brake valve. R. B. Campbell. 2,404,122; July 16.
Piston device, Radial reciprocating. A. T. Logus. 2,404,305; July 16.
Piston ring. T. E. McFall. 2,404,140; July 16.
Pitch and diameter control, Propeller. F. Du P. Ammen. 2,403,899; July 16.
Plant, Internal-combustion engine turbine. T. Clark and W. H. Lindsey. 2,404,275; July 16.
Plate, Storage battery. C. Ambruster. 2,404,158; July 16.
Polygonal separable section container. A. P. D. Belanger. 2,403,901; July 16.
Polymer slurry process. J. R. Brown, Jr., and I. E. Lightbown. 2,403,966; July 16.
Position-indicating system. B. D. Loughlin and J. F. Craib. 2,404,238; July 16.
Positioning and supporting device for car couplers. G. G. Gilpin. 2,404,285; July 16.
Posting machine. C. Wittenmyer. 2,404,264; July 16.
Potentiometer device. R. F. Mallina. 2,403,989; July 16.
Power control, Gun turret. G. W. Pontius, III, A. P. Wilson, and F. V. Kuzmitz. 2,404,090; July 16.
Power transmission. A. L. Ellis. 2,403,913; July 16.
Power transmission. K. R. Herman, J. Robinson, and J. D. Dietiker. 2,403,924; July 16.
Power transmission. J. A. Martin. 2,404,309; July 16.
Power transmission. D. A. Wallace and E. C. Lee. 2,404,330; July 16.
Prediction apparatus. W. T. White. 2,404,011; July 16.

Press: *See*—
Mechanical drawing press.
Press operating device. F. A. Doll. 2,403,912; July 16.
Pressing apparatus. F. S. Carver. 2,404,165; July 16.
Projector, Microfilm. R. Place. 2,404,189; July 16.
Propeller. H. R. Noyes. 2,403,946; July 16.
Propelling device. M. Falk. 2,404,044; July 16.
Protecting device for parallel conducting wires; Wear. H. W. Pinkerton. 2,404,088; July 16.
Protective device, Toilet. H. H. Des Roches. 2,404,124; July 16.
Pulverizing, feeding, and transporting of material, System of. J. L. Harvey. 2,403,976; July 16.
Pump: *See*—
Vapor vacuum pump.
Pump of the double jet type, Vapor vacuum. P. Alexander and C. Whiley. 2,404,022; July 16.
Pump of the radial cylinder type, Hydraulic. W. C. Holden and J. C. Naylor. 2,404,175; July 16.
Pump of the vapor type, Vacuum. P. Alexander. 2,404,021; July 16.
Rack: *See*—
Photographic frame rack.
Radiator, Compressional wave. W. P. Mason. 2,403,990; July 16.
Radio beacon system. S. W. Seeley. 2,404,196; July 16.
Radio direction finder. H. G. Busignies. 2,403,967; July 16.
Radio direction finder. R. H. Worrall. 2,404,012; July 16.
Radio receiver. H. Whalley and C. W. Miller. 2,404,333; July 16.
Range finder. E. H. Land. 2,404,301; July 16.
Range finder. E. H. Land and D. P. Cooper, Jr. 2,404,302; July 16.
Ratchet mechanism. F. A. Reynolds. 2,404,092; July 16.
Razor blade holder. J. Nelson. 2,404,141; July 16.
Reciprocating engine. L. C. Rotter and V. G. Klein. 2,404,315; July 16.
Recording. R. E. Crowley. 2,403,911; July 16.
Refrigerating machine. F. O. Urban. 2,404,010; July 16.
Refrigerating machine. F. O. Urban. 2,404,112; July 16.
Regulating valve. H. B. Schultz. 2,404,102; July 16.
Regulator for drill presses, Threading. W. C. Glover, Jr. 2,404,053; July 16.
Remote control of radio receivers. R. E. Schock. 2,404,101; July 16.
Removers and support therefor, Cap. M. H. Hill. 2,404,066; July 16.
Resinate. H. M. Spurlin. 2,404,255; July 16.
Resolution of heterocyclic nitrogen compound mixtures. K. H. Engel. 2,404,167; July 16.
Retouching apparatus. E. L. Johnson. 2,404,134; July 16.
Rigging, Brush. E. N. Olson. 2,404,246; July 16.
Ring: *See*—
Piston ring.
Riveter, Blind. C. W. Ginter. 2,404,051; July 16.
Rollable window screen. H. W. Thomas. 2,404,257; July 16.
Roller for ink distributions, Transfer. H. M. Barber. 2,404,159; July 16.
Rolling device, Cigarette. L. G. Moss. 2,404,242; July 16.
Rosin carbonates. J. N. Borglin. 2,404,213; July 16.
Rubber in cellular form, Manufacture of. G. M. Hamilton. 2,404,171; July 16.
Rubber, Regeneration of waste. A. Johnston. 2,404,293; July 16.
Safety device for boat hoists. A. R. Wilhelm. 2,404,153; July 16.
Sandpaper holder. R. H. Smith. 2,404,105; July 16.
Scraper, Carrying. M. A. Clark. 2,404,123; July 16.
Screen: *See*—
Rollable window screen.
Sealing and ejecting apparatus for mail treating machines. C. D. Ryan. 2,404,193; July 16.
Selectivity by phase quadrature using triple selectivity circuits. J. H. Hammond, Jr., and E. S. Purington. 2,404,062; July 16.
Separator for boiler blow-off products. L. F. Wilson and E. A. Preston. 2,404,263; July 16.
Servomotor and control. J. E. Whitfield. 2,404,262; July 16.
Sewage, Method of and apparatus for treating. A. C. Durdin, III. 2,404,223; July 16.
Sewing machine. G. Sauer. 2,404,318; July 16.
Shades and similar articles, Making lamp. J. H. Brown. 2,404,162; July 16.
Shaft and camshaft adaptation, Distributor. C. W. Wilkinson. 2,404,017; July 16.
Shank stiffener. N. Rosenthal. 2,403,950; July 16.
Sharpener, Knife. J. L. Barnes. 2,404,025; July 16.
Sharpening mechanism, Bit. W. H. Wineman. 2,404,201; July 16.
Sheathed valve. P. F. Johnson. 2,403,926; July 16.
Shoe and making the same. J. J. Walsh. 2,404,150; July 16.
Shoe construction. S. Cangemi. 2,404,214; July 16.
Signal system, Air brake. A. L. Macan. 2,403,938; July 16.
Slotting machine, Piston ring. H. M. Scarff. 2,404,146; July 16.
Slurry filtration. R. M. Cavanaugh. 2,404,215; July 16.
Soap, Manufacture of. M. H. Ittner. 2,403,925; July 16.
Soldering machine. J. M. McClathchie. 2,403,943; July 16.
Sound reproduction. W. Koenig, Jr. 2,403,985; July 16.
Spear, Fish. G. O. Potter. 2,404,249; July 16.
Special tool. S. J. A. Christie. 2,404,274; July 16.
Split induction coil furnace. J. H. Fledel-Beck. 2,403,969; July 16.
Spool for wire-stranding machines. S. Krizsan, Jr. 2,404,237; July 16.
Spot facing tool. L. Belanger. 2,404,027; July 16.
Spraying apparatus. A. E. Collins. 2,404,217; July 16.
Spraying machine. H. J. Paynter. 2,403,994; July 16.
Spraying, Method of and apparatus for. N. C. Christensen. 2,404,273; July 16.
Sprinkler, Lawn. H. A. Scherrer. 2,403,953; July 16.
Stabilizer apparatus. C. R. Hanna. 2,404,172; July 16.
Stacker, Buck rake. D. M. Williams. 2,404,154; July 16.
Stacking and banding device, Stocking. E. R. Ammon. 2,404,205; July 16.
Stacking machine. S. P. Mathers. 2,403,942; July 16.
Stadimeter. T. O. Brandon. 2,403,965; July 16.
Stoker, Furnace. W. P. Biddle, Jr., and H. W. Sanford, Jr. 2,404,211; July 16.
Storage amplifier circuit. K. Schlesinger. 2,403,956; July 16.
Strainer or egg poacher. L. Frank. 2,404,130; July 16.
Strong, machinable, heat-resistant alloy. E. R. Parker. 2,404,247; July 16.
Structure for incinerators, Chute. J. T. MacLaren. 2,403,941; July 16.
Structures, Bonding. F. W. Ahalt. 2,404,157; July 16.
Styrene, Treating. L. Ader. 2,403,962; July 16.
Suction cleaner. J. H. Nuffer and L. H. Latta. 2,404,244; July 16.
Suit with helmet, Pressure-applying aviator's. J. D. Akerman. 2,404,020; July 16.
Support: *See*—
Arch support.
Switch: *See*—
Dead-front safety switch.
Electric switch.
Enclosed switch.
Periodic momentary switch.
Switching device, Electrical. E. B. King. 2,404,179; July 16.
Synchronizing device. H. E. Hallborg, C. N. Gillespie, and G. R. Clark. 2,403,921; July 16.
Tape applier. L. L. Salfisberg. 2,404,317; July 16.
Telegraph apparatus. A. E. Thompson and R. D. Salmon. 2,404,007; July 16.
Telegraph apparatus, Printing. W. J. Zenner. 2,404,339; July 16.
Telescopic unit, Resilient. C. J. Underwood. 2,404,111; July 16.
Television signal generator. J. A. Hansen. 2,404,173; July 16.
Television system. C. O. Browne and H. W. Hobbs. 2,404,030; July 16.
Television transmitting apparatus. L. E. Flory, E. A. Massa, and G. A. Morton. 2,404,046; July 16.
Terpene product, Stabilization of. A. L. Rummelsburg. 2,404,251; July 16.
Tertiary amino derivatives of dihydroanthracene. J. W. Cusic. 2,404,219; July 16.
Testing metal, Sonic method for. T. A. Read, H. I. Fusfeld, and S. W. Kitchen. 2,403,999; July 16.
Thermostatic metal. C. F. Alban and S. R. Hood. 2,403,895; July 16.
Thread advancing device. R. W. Stanley and W. B. Lowe. 2,404,005; July 16.
Threaded connection, Adjustable. J. W. Leighton. 2,404,076; July 16.
3-picoline, Recovery of pure. G. Riethof. 2,403,949; July 16.
Tilting apparatus, Railway car. J. H. Porteus. 2,404,091; July 16.
Tool: *See*—
Diffraction grating tool.
Special tool.
Spot facing tool.
Tool and making the same, Wheel dressing. W. Ludel. 2,404,184; July 16.
Tool chuck. A. Thomas. 2,404,006; July 16.
Tooth, Artificial. J. C. Tighe. 2,404,327; July 16.
Torquemeter. A. C. Ruge. 2,403,952; July 16.
Torque wrench. P. M. Birk. 2,404,029; July 16.
Tower construction. H. Cohen. 2,404,276; July 16.
Toy, Noise-making airplane. H. Zimmerman. 2,404,265; July 16.
Toy, Wheeled. P. Mariani. 2,404,186; July 16.
Trailer, Caster. J. J. Black. 2,404,121; July 16.
Translating signals, Method of and system for. J. G. Beard and R. W. Harralson. 2,404,026; July 16.
Transmission, Variable-speed. J. O. Hamren. 2,404,229; July 16.
Transmission, Variable-speed. L. E. Harper. 2,404,231; July 16.
Transmitting system, Television. O. H. Schade. 2,404,098; July 16.

Triggers, Making. V. G. Yawman. 2,404,118; July 16.
Truck, Railway car. G. E. Dath. 2,404,278; July 16.
Truck, Railway car wheel. W. P. McCallick. 2,404,310; July 16.
Tube coupling. A. L. Parker. 2,404,142; July 16.
Tubular lamp mounting. C. E. Dansereau. 2,403,968; July 16.
Turbodrive and controls. H. O. Schjolin. 2,403,954; July 16.
2-(4-succinyl-amino-benzene-sulphonamido)-quinoxaline. J. Weijlard and M. Tishler. 2,404,200; July 16.
2-sulphanilamido-quinoxaline. J. Weijlard and M. Tishler. 2,404,199; July 16.
Ultra high frequency system. J. R. Whinnery. 2,404,261; July 16.
Ultra short wave system. O. E. Dow. 2,404,279; July 16.
Valve: *See*—
Piston brake valve.
Regulating valve.
Sheathed valve.
Valve actuating mechanism. L. I. Plank. 2,404,311; July 16.
Valve tappet mounting. G. E. Burks. 2,404,032; July 16.
Vapor vacuum pump. P. Alexander and C. Whiley. 2,404,023; July 16.
Variable diameter and variable pitch propeller. W. S. Hoover. 2,404,290; July 16.
Variable resistor. A. C. Ruge. 2,403,951; July 16.
Vehicle: *See*—
Mechanically propelled vehicle.
Vehicle wheel. J. Magdus. 2,404,308; July 16.
Vertical mill. E. G. Eppenbach and H. Imshaug. 2,403,914; July 16.
Vinyl resin articles, Antistatic treatment of. W. N. Stoops and A. L. Wilson. 2,403,960; July 16.
Walk, Railway car roof. G. G. Gilpin. 2,404,284; July 16.
Wave translation. L. Y. Lacy. 2,403,986; July 16.
Well flowing apparatus. J. O. Lewis. 2,403,987; July 16.
Wheel: *See*—
Vehicle wheel.
Wheel brakes, Self-adjusting mechanism for hydraulic. A. G. Taylor. 2,404,326; July 16.
Wheel for vehicle. G. A. Bennett. 2,404,269; July 16.
Winding apparatus. T. E. Carlson. 2,403,908; July 16.
Winding mechanism, Roll-film. D. G. Hunter. 2,404,291; July 16.
Window structure. W. Kummerow. 2,404,075; July 16.
Wrench: *See*—
Bloom wrench.
Torque wrench.

CLASSIFICATION OF PATENTS

ISSUED JULY 16, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 3: 2,403,947
2— 42: Re. 22,771
8— 48: 2,403,900
127.6: 2,403,906
10— 136: 2,404,053
12— 142: 2,404,150
13— 20: 2,404,060
22: 2,404,059
18— 17: 2,403,948
39: 2,404,314
55: 2,404,208
58: 2,404,008
19— 130: 2,404,218
20— 4: 2,403,934
57.5: 2,404,178
21— 63: 2,404,272
23— 96: 2,404,055
115: 2,403,940
134: 2,403,939
161: 2,404,260
28— 71.6: 2,404,005
29— 33: 2,404,180
148: 2,404,118
155.57: 2,404,016
2,404,185
195.5: 2,403,895
30— 15: 2,403,959
162: 2,404,141
31— 58: 2,404,098
62: 2,404,069
32— 8: 2,404,327
33— 18: 2,404,222
70: 2,403,919
147: 2,403,896
174: 2,403,898
35— 13: 2,404,040
46: 2,403,920
36— 8.5: 2,404,083
19.5: 2,404,214
71: 2,403,944
76: 2,403,950
37— 9: 2,404,123
12: 2,404,287
38— 138: 2,404,194
40— 126: 2,404,089
41— 24: 2,404,136
33: 2,404,073
43— 6: 2,404,249
44— 53: 2,404,094
46— 52: 2,404,265
103: 2,404,186
47— 60: Pl.Pt.706
51— 124: 2,404,282
187: 2,404,105
188: 2,404,207
211: 2,404,192
298: 2,404,322
55— 83: 2,404,252
57— 75: 2,403,908
60— 16: 2,404,262
35.6: 2,404,334
41: 2,404,275
44: 2,404,335
53: 2,404,229
54.5: 2,403,912
62— 8: 2,404,010
2,404,112
66— 86: 2,403,961
69— 20: 2,404,041
73— 40: 2,403,897
69: 2,403,999
105: 2,404,143
136: 2,403,952
139: 2,404,029
151: 2,404,132
298: 2,404,087

74— 2: 2,404,311
5: 2,404,172
96: 2,403,935
100: 2,404,315
105: 2,404,288
110: 2,404,228
124: 2,404,231
189.5: 2,403,954
216.5: 2,404,013
221: 2,404,156
234: 2,404,271
401: 2,404,116
407: 2,404,153
569: 2,404,210
75— 170: 2,404,247
2,404,248
76— 5: 2,404,201
86: 2,404,025
77— 58: 2,404,027
70: 2,404,048
2,404,049
78— 15: 2,404,304
82— 2: 2,404,161
85— 3: 2,404,169
11: 2,404,245
36: 2,404,236
88— 2.4: 2,403,965
2.6: 2,404,301
2,404,302
24: 2,404,189
74: 2,403,915
89— 1: 2,404,277
33: 2,404,325
36: 2,404,256
41: 2,404,127
2,404,243
90— 14: 2,404,149
15.1: 2,404,146
91— 45: 2,403,994
2,404,217
67.8: 2,404,159
93— 1: 2,404,162
94: 2,403,995
94— 13: 2,404,097
95— 6: 2,403,927
11: 2,403,911
94: 2,404,138
100: 2,404,117
103: 2,404,134
99— 118: 2,404,034
2,404,035
2,404,036
2,404,037
137: 2,404,177
419: 2,404,166
443: 2,403,923
100— 31: 2,404,205
101— 28: 2,403,916
102— 49: 2,404,190
70.2: 2,403,907
75: 2,404,135
103— 38: 2,403,913
2,404,175
162: 2,404,309
174: 2,404,305
262: 2,404,202
105— 61: 2,403,933
131: 2,404,115
197: 2,404,278
199: 2,404,091
457: 2,404,284
106— 173: 2,404,033
110— 109: 2,404,211
112— 256: 2,404,318
113— 1: 2,404,197
46: 2,404,181

113— 68: 2,403,943
114— 144: 2,404,281
235: 2,404,329
117— 115: 2,404,000
138.5: 2,403,945
138.8: 2,403,960
161: 2,404,313
120— 6: 2,404,193
51: 2,404,063
122— 451: 2,404,114
123— 90: 2,404,032
2,404,241
119: 2,404,323
188: 2,403,926
125— 11: 2,404,148
39: 2,404,184
128— 144: 2,404,020
191: 2,403,981
2,403,991
272: 2,404,316
405: 2,404,283
131— 51: 2,404,242
235: 2,404,174
132— 33: 2,403,992
134— 167: 2,404,286
136— 55: 2,404,158
90: 2,404,144
137— 153: 2,404,102
138— 30: 2,404,095
143— 132: 2,404,274
146— 90: 2,403,910
151— 8: 2,404,128
153— 1: 2,403,998
154— 1: 2,404,165
155— 173: 2,404,109
158— 81: 2,404,015
91: 2,404,039
160— 133: 2,404,257
207: 2,404,075
166— 2: 2,403,987
21: 2,404,341
167— 87.1: 2,403,937
170— 141: 2,404,044
160: 2,404,290
163: 2,403,899
2,403,946
171— 119: 2,404,254
206: 2,404,129
223: 2,404,209
324: 2,404,246
172— 36: 2,404,331
2,404,332
179: 2,404,090
239: 2,404,342
2,404,344
293: 2,403,921
173— 328: 2,403,968
2,403,979
363: 2,404,176
174— 81: 2,404,152
110: 2,404,239
175— 367: 2,404,072
176— 122: 2,404,002
2,404,077
126: 2,404,057
2,404,070
177— 311: 2,403,938
2,404,266
337: 2,404,074
351: 2,404,238
352: 2,403,955
2,403,956
2,403,974
386: 2,403,990
178— 6.8: 2,403,975
7.2: 2,404,046

178— 7.2: 2,404,098
2,404,173
17: 2,404,339
44: 2,404,085
2,404,086
2,404,270
60: 2,403,988
80: 2,404,007
179— 1: 2,403,982
2,403,983
2,403,984
2,403,985
2,403,986
2,403,997
15: 2,403,957
100.3: 2,404,137
100.4: 2,404,026
171: 2,404,082
2,404,160
2,404,188
2,404,261
183— 36: 2,403,970
83: 2,404,263
188— 79.5: 2,404,326
106: 2,404,054
189— 19: 2,404,276
92: 2,404,151
191— 33: 2,404,088
192— 3.5: 2,404,330
45.1: 2,404,092
2,404,221
193— 34: 2,403,941
196— 13: 2,404,233
52: 2,404,024
2,404,050
2,404,071
197— 1: 2,404,264
198— 20: 2,403,980
31: 2,404,232
220: 2,404,058
200— 33: 2,404,179
50: 2,404,183
2,404,216
114: 2,404,230
201— 55: 2,403,989
63: 2,403,951
202— 42: 2,404,163
57: 2,403,902
205: 2,403,978
204— 108: 2,404,206
148: 2,404,031
205— 3: 2,404,234
206— 2: 2,404,126
41.2: 2,404,312
79: 2,404,066
210— 8: 2,404,223
62: 2,404,215
67: Re.22,772
201: 2,404,061
213— 61: 2,404,285
214— 1: 2,404,233
6: 2,403,942
65.4: 2,404,310
82: 2,404,154
216— 21: 2,404,317
218— 19: 2,404,051
219— 8: 2,404,028
2,404,125
10: 2,404,157
13: 2,403,969
20: 2,404,139
2,404,147
40: 2,404,336
47: 2,404,191
220— 55: 2,404,124
94: 2,404,130

222— 28: 2,404,258
129: 2,404,009
320: 2,404,119
224— 48: 2,404,133
227— 49: 2,404,108
229— 6: 2,404,065
28: 2,403,901
45: 2,404,057
62: 2,404,337
230— 101: 2,404,021
2,404,022
2,404,023
115: 2,404,324
133: 2,404,244
185: 2,404,079
232— 1: 2,404,043
234— 1.5: 2,404,001
235— 61: 2,404,047
2,404,250
2,404,294
61.5: 2,404,011
90: 2,404,320
92: 2,404,106
130: 2,404,170
236— 1: 2,403,917
78: 2,404,227
241— 34: 2,403,976
286: 2,403,914
242— 71: 2,404,291
78: 2,404,155
118: 2,404,237
244— 6: 2,403,936
17: 2,404,014
42: 2,404,045
103: 2,404,018
137: 2,404,195
246— 3: 2,404,303
248— 74: 2,404,110
292: 2,403,904
250— 6: 2,404,062
2,404,306
11: 2,403,909
2,403,967
2,404,012
2,404,196
20: 2,404,101
2,404,307
2,404,333
2,404,338
27: 2,403,918
27.5: 2,404,042
2,404,113
2,404,212
33: 2,404,093
36: 2,404,279
39: 2,403,958
41.5: 2,404,131
43: 2,404,064
108: 2,404,225
157: 2,404,030
158: 2,403,956
165: 2,404,343
252— 8.5: 2,404,038
8.9: 2,404,240
56: 2,403,928
117: 2,404,297
2,404,298
132: 2,404,003
2,404,004
138: 2,404,289
186: 2,403,932
370: 2,403,925
254— 172: 2,403,924
257— 2: 2,404,168
44: 2,404,321
222: 2,404,187

260— 23: 2,403,964
2,404,204
83: 2,404,268
86: 2,404,220
91: 2,403,962
93: 2,403,966
100: 2,404,213
2,404,255
159: 2,404,198
239.6: 2,404,199
2,404,200
253: 2,403,319
290: 2,403,949
2,404,167
293: 2,404,219
294: 2,403,903
309: 2,404,299
2,404,300
309.5: 2,404,096
464: 2,404,164
2,404,280
485: 2,404,103
486: 2,404,267
2,404,292
631.5: 2,404,251
660: 2,403,977
666: 2,404,100
668: 2,404,104
669: 2,404,235
671: 2,403,963
2,404,120
674: 2,403,972
680: 2,404,056
683.4: 2,403,922
2,403,929
2,403,930
2,403,931
2,404,080
2,404,340
720: 2,404,293
724: 2,404,171
261— 24: 2,404,081
266— 15: 2,404,328
23: 2,404,019
267— 64: 2,404,111
270— 32: 2,403,971
273— 40: 2,404,296
279— 60: 2,404,006
280—33.15: 2,403,973
33.4: 2,404,121
285— 86: 2,404,142
169: 2,404,052
213: 2,404,259
287— 2: 2,404,017
2,404,145
96: 2,404,076
290— 1: 2,403,905
292— 218: 2,403,993
294— 1: 2,404,107
28: 2,404,224
299— 61: 2,403,953
63: 2,404,273
301— 1: 2,404,269
6: 2,404,308
302— 25: 2,404,203
303— 54: 2,404,122
308— 174: 2,404,084
237: 2,404,295
309— 45: 2,404,140
312— 107: 2,404,182
315— 6: 2,404,078
2,404,226
24: 2,404,099

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,403,895: 29—195.5
2,403,899: 170—163
2,403,901: 229— 28
2,403,902: 202— 57
2,403,905: 290— 1
2,403,914: 241—286
2,403,931: 260—683.4
2,403,960: 117—138.8
2,403,966: 260— 93
2,403,996: 250—158
2,404,017: 287— 2
2,404,030: 250—157
2,404,065: 229— 6
2,404,078: 315— 6
2,404,079: 230—185
2,404,099: 315— 24
2,404,119: 222—320
2,404,140: 309— 45
2,404,147: 219— 20
2,404,163: 202— 42
2,404,181: 113— 46
2,404,194: 38—138
2,404,206: 204—108
2,404,226: 315— 6
2,404,254: 171—119
2,404,259: 285—213
2,404,261: 179—171
2,404,279: 250— 36
2,404,283: 128—405
2,404,287: 37— 12
2,404,297: 252—117
2,404,340: 260—683.4
Des. 145,223: D61—1

Classification of Designs

D 4— 4: Des. 145,211
D 9— 2: Des. 145,215
Des. 145,216
Des. 145,224
D22— 3: Des. 145,234
D26— 1: Des. 145,210
7: Des. 145,227
D33— 2: Des. 145,225
3: Des. 145,194
D33—14: Des. 145,220
D34— 4: Des. 145,232
Des. 145,233
D44—22: Des. 145,228
Des. 145,229
29: Des. 145,240
D45— 1: Des. 145,236
9: Des. 145,196
19: Des. 145,213
D45—19: Des. 145,214
D48—23: Des. 145,219
27: Des. 145,217
Des. 145,218
Des. 145,235
D56— 4: Des. 145,231
Des. 145,237
D58—12: Des. 145,195
25: Des. 145,212
D61— 1: Des. 145,223
Des. 145,238
D67— 3: Des. 145,222
D71— 1: Des. 145,226
D80—11: Des. 145,197
D86—10: Des. 145,198
Des. 145,199
Des. 145,200
Des. 145,201
D86—10: Des. 145,202
Des. 145,203
Des. 145,204
Des. 145,205
Des. 145,206
Des. 145,207
Des. 145,208
Des. 145,209
Des. 145,239
D91— 1: Des. 145,221
D92— 4: Des. 145,230
Des. 145,241
Des. 145,242

U. S. GOVERNMENT PRINTING OFFICE: 1946

Patents Nos. 2,404,345 to 2,404,768

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 588—No. 4 TUESDAY, JULY 23, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each. For the latter address the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of July 23, 1946	517
Notice—Title of Invention	517
Adjudicated Patent	517
Design Patent No. 21,053 Extended	517
Notices	517
Applications Under Examination	518
Commissioner's Decisions	
Ex Parte Lawrence	519
Ex Parte The Magi Company	519
Decisions of the U. S. Courts—	
McKesson & Robbins, Inc. v., The Vad Corporation	520
In re Greenbaum	521
In re Mason	522
Notice—Conversion of an Order 3662 Application into a Statutory Application	525
Notice of Tentative Recordation of Trade Name	525
Trade-Mark Registrations Canceled	525
Notices of Cancellation	525
Register of Patents Available for Licensing or Sale	526
Trade-Marks Published (133 Applications)	529
Trade-Mark Registrations Granted	545
Trade-Mark Registrations Renewed	553
Reissues	557
Patents Granted	558
Designs	663

July 23, 1946

Trade-Marks	141	No. 422,393 to No. 422,533, inclusive.
T. M. Renewals	52	
Reissues	1	No. 22,773
Patents	424	No. 2,404,345 to No. 2,404,768, inclusive.
Designs	37	No. 145,243 to No. 145,279, inclusive.
Total	655	

Notice

TITLE OF INVENTION

U. S. Patent Office, *Washington 25, D. C., July 1, 1946.*

The title of the invention in each application should be as specific as possible. General titles do not serve to throw any helpful light on the nature of the invention.

Where the title is not specific to the invention claimed, the examiner should require the substitution of a new title that is clearly indicative of the invention to which the claims are directed. This may result in slightly longer titles, but the loss in brevity of title will be more than offset by the gain in its informative value in indexing, classifying, searching, etc. If a satisfactory title is not supplied by the applicant, the examiner may change the title by Examiner's Amendment on or after allowance.

CASPER W. OOMS,
Commissioner.

Adjudicated Patent

(Ct. Cl.) Ferguson patent, No. 1,089,405, for reinforced concrete construction, claims 1, 2, 4, 6, and 12 to 16, inclusive, *Held* not infringed. *Ferguson* v. *U. S.*, 65 F. Supp. 580; 69 USPQ 350.

Design Patent No. 21,053 Extended

[Private Law 692—79th Congress]

[Chapter 470—2d Session]

[H. R. 5896]

AN ACT

To extend the term of design patent numbered 21,053, dated September 22, 1891, for a badge, granted to George Brown Goode, and assigned to the National Society, Daughters of the American Revolution.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That a certain design patent issued by the United States Patent Office of date September 22, 1891, being patent numbered 21,053, is hereby renewed and extended for a period of fourteen years from and after the date of approval of this act, with all the rights and privileges pertaining to the same, being generally known as the badge of the Daughters of the American Revolution.

Approved June 24, 1946.

Notices

U. S. Patent Office, *Washington, D. C., June 26, 1946.*

Many attorneys make a practice of sending in amendments in duplicate with a request that the extra copy be returned.

The Patent Office has neither the time nor the force to return these extra copies and they will therefore be destroyed.

Any attorney wishing a receipt for any paper should accompany the paper by a postal card addressed to himself and identifying the paper. The receiving stamp of the mail room will be placed on this card and it will be dropped in the outgoing mail.

J. A. BREARLEY,
Chief Clerk.

U. S. Patent Office, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notice

United States Patent Office, Washington 25, D. C.

Under the act signed July 5, 1946, the price of copies of patents is increased from ten cents to twenty-five cents. The price of copies of trade-marks and designs remains at ten cents.

J. A. BREARLEY,
Chief Clerk.

July 11, 1946.

Condition of Applications Under Examination at Close of Business June 28, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 115,915; Trade-Mark Division, 6,574. Oldest new case, February 2, 1945; oldest amended, February 17, 1945.)

(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended action by applicant awaiting office action	No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Mar. 31	May 4	1912
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 16	May 2	2345
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 14	1885
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	June 27	July 30	1986
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 19	Mar. 17	3141
6. GENIESSE, E. W., Carbon Chemistry (part)	July 30	Aug. 3	1803
7. JARBOE, C. G., Optics, Photography	Aug. 20	Sept. 5	2043
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 20	June 18	2632
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 2	Mar. 29	1890
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	May 9	June 18	1329
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 3	Nov. 5	592
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 7	May 26	2065
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 27	1764
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 4	Aug. 22	1247
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	June 23	Aug. 6	1370
16. LOVEWELL, N. N., Telegraphy; Telephony	July 4	June 8	1244
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 12	Feb. 20	1049
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 25	June 11	1652
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Aug. 24	Aug. 24	1346
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1556
21. THOMPSON, T. J., Textiles	Aug. 30	Oct. 24	767
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	July 31	June 29	1662
23. LEWIS, J. B., Cash Registers; Calculators (part)	Apr. 3	May 11	258
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	July 23	Sept. 19	1125
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	May 8	May 16	1400
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 2	May 7	1840
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 3	Mar. 23	1871
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 8	Apr. 13	1320
29. SHKLARIN, J. B., Bagrage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	May 18	May 2	1918
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	May 21	June 9	2051
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 10	Dec. 11	974
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 6	Aug. 11	1619
33. ROE, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	May 16	May 16	2266
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders: Signals and Indicators	May 31	June 29	1047
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	July 4	July 9	1581
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 10	May 30	1267
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 30	May 3	1407
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	May 21	July 3	1259
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 7	Apr. 11	2128
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 6	Aug. 11	2150
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Mar. 15	Feb. 17	790
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Aug. 21	Aug. 17	962
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 1	May 11	1368
44. HARVEY, L. P., Refrigeration; Preserving	Mar. 27	Apr. 6	1046
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	June 27	June 21	2051
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	June 5	July 26	1251
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Aug. 17	Sept. 4	2203
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 7	Mar. 20	1807
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 28	July 30	1376
50. LEVIN, SAMUEL, Synthetic Resins	July 4	July 7	2155
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	Apr. 18	Apr. 19	2130
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 9	May 4	2795
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	Apr. 13	2654
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	Apr. 10	Apr. 17	2012
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 7	July 2	1565
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	Apr. 30	Apr. 30	1562
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 2	Mar. 4	2351
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 2	Oct. 24	1058
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Apr. 10	Apr. 10	2013
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 25	June 2	1850
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 8	May 31	2199
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Feb. 17	Mar. 23	2942
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 13	Apr. 16	2090
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Nov. 30	Nov. 27	1216
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 4	May 10	2226
TRADE-MARKS: RICHMOND, F. A	Nov. 23	†Feb. 28	6574
DESIGNS: KALUPY, H. H	Oct. 24	†Feb. 4	5482

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

EX PARTE LAWRENCE

Decided June 18, 1946

1. REISSUE APPLICATION—DESIGN PATENT—CHANGE OF TERM OF PATENT.

Where applicant charged the Patent Office with no mistake in issuing his design patent for a term of only 3½ years, *Held* that his reissue application to change the term to 14 years "must be denied for lack of statutory authority to grant the reissue."

2. SAME—SAME—SAME.

Section 4916 R. S. "contemplates that the error warranting reissue shall be one resident in the specification to be corrected by reissue, and that the reissued patent shall have a term coextensive with the original patent;" and does not authorize "a reissue the only purpose of which is to change the term of the issued patent to a term of greater length, where the term of issue was that requested by the applicant."

ON REFERENCE by the Examiner.

OOMS, *Commissioner:*

Benjamin E. Lawrence, patentee of Design Patent No. 143,432, issued January 1, 1946, for a Hygrometer, has applied for a reissue of that design patent to change its term from the term of 3½ years, for which it was issued, to a term of 14 years.

The facts briefly summarized appear to be that the applicant sought a design patent for a term of 3½ years and filed an application adequate to that purpose with the statutory fee therefor, but intending to decide later whether to change the term. Upon allowance of the application the applicant diligently undertook to intercede before the issuance of the patent to have its term extended. The practice of the Patent Office in design cases permits payment of the fee for a more extended term at any time before the issuance of the notice of allowance. (Rule 80). No mistake by the Patent Office is asserted.

The question raised by this application is whether or not the statute (R. S. 4916, title 35, U. S. Code Sec. 64), governing the reissue of patents, permits the grant of a reissue for the purpose herein sought.

The statute opens as follows:

"Whenever any patent is wholly or partly inoperative or invalid, by reason of a defective or insufficient specification, or by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, if the error has arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, the Commissioner shall, on the surrender of such patent and the payment of the duty required by law, cause a patent for the same invention, and in accordance with the corrected specification, to be reissued to the patentee or to his assigns or legal representatives, for the unexpired part of the term of the original patent."

It is to be observed that the requisites to reissue prescribed by the statute include the requirements that the patent be wholly or partly inoperative and that this defect arise by reason of a defective or insufficient specification or by the patentee's claim of more than he had a right to claim; and that the error be inadvertent and without deceptive intention.

[1][2] The only defect asserted with respect to the design patent sought to be reissued is that it was issued for the term of three and one-half years, the term sought by the applicant in his original application. The patent is obviously not inoperative or invalid for either of the reasons set forth in the statute, that is, defective or insufficient specification, or claiming too much and hence the first prerequisite to the granting of a reissue demanded by the statute is entirely wanting. That there is no implied power in the statute to grant the reissue herein sought is further indicated by the further terms of the statute which empower the Commissioner on the surrender of a patent defective in the manner prescribed to cause a patent for the same invention to be issued "in accordance with the corrected specification, * * * for the unexpired part of the term of the original patent." The statute thus contemplates that the error warranting reissue shall be one resident in the specification to be corrected by reissue, and that the reissued patent shall have a term coextensive with the original patent. There is thus no warrant in the statute for a reissue the only purpose of which is to change the term of the issued patent to a term of greater length, where the term of issue was that requested by the applicant.

The application for reissue of Design Letters Patent No. 143,432 must be denied for lack of statutory authority to grant the reissue.

In view of the above, it is unnecessary to decide whether applicant's failure to advise his attorney with respect to changing the term, or the failure to change the term, before the notice of allowance of the original patent, constitutes "inadvertence, accident, or mistake" on the part of applicant, although it seems extremely doubtful.

Commissioner's Decision

EX PARTE THE MAGI COMPANY

Decided June 4, 1946

TRADE-MARKS—RECORDING FIRM NAME.

Held that although it is the practice to record certified copies of articles of incorporation, a firm name used by individuals who are doing business without incorporation should not be recorded.

ON PETITION.

Morgan, Finnegan & Durham for petitioner.

FRAZER, *First Assistant Commissioner:*

This is a petition that the Examiner of Trade-Marks be instructed to record, for search purposes, the firm name of two individuals who are doing business as "The Magi Company."

Pursuant to Commissioner's Order No. 3,181, 403 O. G. 511, certified copies of the articles of incorporation of corporations are so recorded; and it is pointed out in the petition that the statute prohibits indiscriminately the registration as trade-marks of corporate names and the names of firms. But the statute makes no provision for the recording of either, and there are sound reasons why the practice should not be extended.

A corporation is a legal entity, chartered by the State for a term certain and for specific purposes. Its dissolution is a matter of public record, easily ascertainable by the Patent Office and by trade-mark users. A firm, on the other hand, may or may not be required or permitted officially to file its partnership agreement; or may, in fact, not even have one. As in the instant case, the nature of its business may not be apparent from the papers sought to be recorded. And when or whether it ceases to exist might be very difficult to prove. As suggested by the Examiner of Trade-Marks, there would be "no uniform procedure readily available to applicants or to this Office for checking the accuracy of the record or eliminating those no longer entitled to consideration in determining questions of registrability."

The statute affords an adequate remedy to firms whose names are adopted as trade-marks. They may either oppose registration under section 6 of the act, or apply for cancelation under section 13.

The petition is denied.

U. S. Court of Customs and Patent Appeals

MCKESSON & ROBBINS, INC.
v.
THE VAD CORPORATION
No. 5,103. Decided March 6, 1946
[154 F.(2d) 155; 69 USPQ 107]

TRADE-MARKS—OPPOSITION.

Where opposer pleaded ownership of a trade-mark registration issued to another, but proved neither ownership of the registration nor of the registered mark, *Held* that its notice of opposition properly was dismissed.

APPEAL from the Patent Office. Affirmed.

Mr. Samuel Herrick for McKesson & Robbins, Inc.

Messrs. Mock & Blum, (*Mr. Asher Blum, Mr. Hugo Mock, Mr. Alex Friedman* and *Mr. Charles R. Allen* of counsel) for The Vad Corporation.

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents (speaking through the First Assistant Commissioner), 62 USPQ 386, affirming that of the Examiner of Trade-Mark Interferences dismissing appellant's notice of opposition to appellee's application for registration of the notation "Vad," printed with fanciful type, as a trade-mark for use on lipsticks and cleansing creams, and holding appellee entitled to the registration sought.

Appellee's application was filed in the Patent Office October 21, 1942, use of the mark being therein alleged "since October 15, 1942." Notice of the application was published in the OFFICIAL GAZETTE of March 2, 1943, and appellant filed notice of opposition March 31, 1943.

In the notice of opposition appellant alleged ownership and use of a registered mark consisting of the word "Vadco," applied as a trade-mark to certain articles of merchandise, asserted to be of the same descriptive properties as lipsticks and cleansing creams. The registration so relied upon is registration No. 120,648, a "soft copy" of which was filed with, and "as a part" of, the notice.

Appellant specifically alleged—

> 2. That opposer secured registration of said mark in the U. S. Patent Office on Feb. 19, 1918, per Certificate No. 120,648, a soft copy of which is filed herewith and as a part hereof; that said registration is now owned by opposer, and is in full force and effect, having been renewed in 1938.
>
> 3. That applicant's alleged trade-mark consists of the word "Vad," which is so similar to opposer's trade-mark as to be likely to cause confusion in the minds of the public, and to deceive purchasers. Opposer states that the goods upon which applicant alleges his mark to be applied have the same descriptive properties as opposer's goods; hence that opposer would be injured by its registration.

In its answer to the notice of opposition appellee stated inter alia:

> Applicant, The Vad Corporation, answering the notice of opposition herein, denies each and every allegation in said notice of opposition except as hereinafter admitted or specifically avoided.
>
> * * * * * * *
>
> 2. It admits the issuance of Reg. No. 120,648 on February 19, 1918, but is without any knowledge as to the renewal thereof or the ownership by opposer.
>
> 3. It denies each and every allegation contained in paragraph 3 of the notice of opposition.

Appellee thus placed in issue the question of appellant's ownership of the mark "Vadco" and it became incumbent upon appellant to prove same. So far as disclosed by the record, appellant made no effort to make such proof. It took no testimony, nor did it introduce any evidence of any character.

The copy of registration No. 120,648 filed with, and "as a part" of, the notice of opposition discloses that the certificate of registration was issued to "Van Antwerp's Drug Corporation, Inc., of Mobile, Alabama," February 19, 1918. Upon the copy is stamped "RENEWED." There is nothing on the document to indicate when it was renewed, nor at whose instance it was renewed.

Furthermore, there is no evidence in the record that appellant ever acquired ownership of, or any interest in the business of, Van Antwerp's Drug Corporation, Inc. It is not even alleged in its notice of opposition that it did so. In fact, it made no reference whatsoever to the Van Antwerp's Drug Corporation, Inc., in its notice of opposition.

Upon the state of the record so outlined, the Examiner of Trade-Mark Interferences held that appellant had not established a right to oppose appellee's registration, saying, inter alia:

> The opposer [appellant here] has filed an official copy of the registration pleaded in the notice of opposition; however, it appears that this registration issued to a stranger to this proceeding and no proofs have been submitted in support of opposer's claim of ownership thereof. The registration, accordingly, is incompetent as evidence of use or ownership of the mark by the opposer and in the absence of any other evidence upon that issue, the Examiner is in agreement with the applicant that the opposer lacks the right to herein contest the question of likelihood of confusion in trade.

The Commissioner affirmed the foregoing decision, saying, inter alia:

> The registration pleaded by opposer was issued to Van Antwerp's Drug Corporation, Inc. Because opposer failed to prove its alleged ownership of the registration, or of the registered mark, the Examiner of Interferences very properly held "that the opposer lacks the right to herein contest the question of likelihood of confusion in trade"; and so dismissed the opposition and "adjudged that the applicant is entitled to the registration for which it has made application."

It is obvious that the decisions of the respective tribunals of the Patent Office, holding that appellant had failed to establish any right to oppose appellee's application for registration and, for that reason, dismissing appellant's notice of opposition, were correct.

The decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GREENBAUM
No. 5,124. Decided March 6, 1946
[154 F.(2d) 162; 69 USPQ 141]

1. REFERENCE—PRINTED PUBLICATION.

An article published more than a year prior to the filing of appellant's application *Held* to be a proper reference even though "it was the applicant that was concerned in furnishing the information, either directly or indirectly, which was published."

2. PATENTABILITY—OINTMENT.

Claims to an antiseptic ointment *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Hammond & Littell (*Mr. Nelson Littell, Mr. Charles P. Pollard* and *Mr. Melville E. Jones* of counsel) for Greenbaum.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

Claims 3, 4, 6 and 7 of appellant's application for a patent relating to an antiseptic ointment were rejected by the Primary Examiner of the United States Patent Office. No claims were allowed. The Board of Appeals affirmed the Examiner's rejection and the appellant has here appealed from the Board's decision.

Claims 3 and 4 are illustrative of the appealed subject matter and read as follows:

> 3. An ointment, comprising a base, with approximately 2% allantoin and 10% sulfanilamide dispersed throughout said base in the form of colloidally dispersed particles of solution, colloidally dispersed solid particles and finely divided crystals.
>
> 4. An ointment, comprising the reaction product of a fatty acid with triethanolamine, glycerin, allantoin and a sulfa drug.

The rejection was based upon the prior art and the references relied upon are: Greenbaum, 2,124,295, July 19, 1938; Veal and Klepser, "The Treatment of Pyogenically Infected Wounds by the Topical Application of Powdered Sulfanilamide and Sulfanilamide-Allantoin Ointment", Medical Annals of the District of Columbia, February, 1941, pages 61 to 63; Journal of the American Medical Association, January 25, 1941, page 356.

In describing the alleged invention the Examiner stated:

> The ointment disclosed is prepared according to the following formula:
>
> | | Decimal portion |
> |---|---|
> | Stearic acid (or other fatty acid in excess) | 27.50 |
> | Triethanolamine | 1.00 |
> | Glycerine | 20.00 |
> | Allantoin crystals | 2.00 |
> | Sulfanilamide | 10.00 |
> | Distilled water, (Q. S.) | |
> | Oil of lavender | 0.239 |
> | Terpineol | 0.016 |
> | Peanut oil | 0.25 |

He then describes the process of compounding the ointment in the following language:

> Briefly, the compounding consists of heating the peanut oil and stearic acid to 75° C., adding thereto a glycerine-water-triethanolamine solution of the allantoin also heated to 75° C., mixing thoroughly, then adding a heated solution of the sulfanilamide in glycerine, again mixing thoroughly and finally adding the perfumes and allowing the mass to cool after a final mixing. The resulting ointment is said to contain the sulfanilamide and allantoin in the form of colloidal solid particles, minute crystals and colloidally dispersed solution particles and is said to be a highly effective preparation.

As shown in the Veal and Klepser article, the ointment described in the instant application is used in the treatment of pyogenically infected wounds. It has long been known that certain sulfa drugs will quickly arrest and eradicate infection but that for some reason new cells would not form in the proper way for healing. It was discovered, however, when a proper ointment was used and which comprised allantoin and the sulfa drug, that not only was the infection brought under control but healing began and new red flesh was soon formed. This is explained in part by the applicant, who, it would seem, has contributed greatly to bringing relief in cases of infected wounds, particularly where proper precautions have not been taken and the infection remains uncured for long periods of time.

The properties of allantoin had been known long before appellant prepared his pharmaceutical and before he filed his original application for the patent to which reference is made in his instant application. Allantoin, though now made synthetically, originally was derived from animal secretions. It was found that maggots in a wound left a secretion that had the tendency to bring about granulation or healing of wounds and to promote the growth of healthy living tissue. The modern material is stated by appellant in his said patent to be produced by "chemical synthesis from uric acid."

The Examiner rejected all of the claims as being fully met by the Veal and Klepser article. They were also rejected upon the Veal and Klepser article in view of applicant's own patent and the Journal of the American Medical Association article.

In rejecting the claims the Examiner applied the references in the following manner:

> All of the claims stand rejected as fully met by the Veal and Klepser article. Since this reference clearly disclosed 10% sulfanilamide and 2% allantoin in a glycerinated stearic acid ointment with triethanolamine, and since it is admitted that it relates to the same product disclosed and claimed herein, the Examiner is wholly unable to understand the traverse of this rejection. As it has been noted above, the article was published more than a year prior to the filing of this application.
>
> The claims are also rejected as unpatentable over the Veal and Klepser article in view of the other references. If any doubt were to exist as to whether the Veal and Klepser preparation had the specific colloidal and finely divided crystal form specified in certain of the claims, this doubt is reduced to the point where no invention would be involved in such a preparation since the Greenbaum patent clearly teaches the desirability of such physical form and how to obtain it. No invention would be involved in preparing the Veal and Klepser sulfanilamide-allantoin ointment in the manner that Greenbaum teaches is desirable to prepare an allantoin ointment. The J. A. M. A. article supplies the teaching, if any be needed, that the sulfanilamide should also be dissolved in a suitable hot solvent before admixture with the other ingredients just as the Greenbaum patent dissolves the allantoin.

The Board affirmed the Examiner's decision as to both grounds of rejection and discussed the issues presented quite fully, but we find it necessary to here set out only a portion of the Board's decision, which is as follows:

> The claims on appeal are directed to the article or product as an ointment and not to the process of compounding the ointment. The publication by Veal and Klepser on page 62 gives a tabulation of the formula and the ingredients included therein, among which are sulfanilamide

10%, allantoin 2% and a greaseless base. The publication states that the base used was a glycerinated stearic acid ointment with triethanolamine. It is considered that this is a complete disclosure of the subject matter of these claims and that the ground of rejection is proper since the publication is dated more than one year prior to the date of the application.

Receipt of a supplemental brief with accompanying affidavit is acknowledged. This supplemental brief appears to argue with respect to prior public use of the article claimed. The rejection is on the ground of prior printed publication. It is noted that R. S., section 4886 and rule 24 provide that a patent may be obtained under certain conditions among which are that the article has not been described in any printed publication more than one year prior to the filing of the application.

The Examiner has also rejected the claims as unpatentable over the Veal and Klepser article in view of the other references. He states that if any doubt were existing as to whether the Veal and Klepser preparation had the specific colloidal and finely divided form specified in certain of the claims, this doubt is reduced to the point where no invention would be involved in such a preparation since the Greenbaum patent clearly teaches the desirability of such physical form and how to obtain it and he holds that there would be no invention involved in preparing the Veal and Klepser sulfanilamide-allantoin ointment in the manner that Greenbaum teaches is desirable to prepare an allantoin ointment. He further states that the Journal of the American Medical Association supplies the teaching, if any be needed, that the sulfanilamide should be dissolved in a suitable hot solvent before admixture with the other ingredients. It is considered that this ground of rejection is also proper.

[1] As is pointed out by the Board in a portion of its decision not here quoted, the Examiner was at a loss to understand the logic of applicant's argument and was unable to understand the traverse of the Examiner's rejection. We must confess we also have had considerable difficulty in understanding appellant's position. To some extent he predicates his contention that the Veal and Klepser reference is not a proper one to be the basis of rejection of his claims apparently because it was the applicant that was concerned in furnishing the information, either directly or indirectly, which was published. This contention is so lacking in merit as to require no extended discussion.

Without expressing or indicating any disapproval of the rejection on the ground of the Veal and Klepser publication being a complete statutory bar to the allowance of the claims on appeal, we think it sufficient for our present purposes to discuss only the second ground of rejection, which is to the effect that the claims are unpatentable over the Veal and Klepser article in view of the other references.

The article in the Journal of the American Medical Association was relied upon merely to show that it was an old expedient to incorporate sulfanilamide in an ointment by dissolving in a hot solvent and then, while still hot, adding it to a heated base material.

In this court appellant has urged at great length that the particular feature of the appealed claims which lends patentability to them relates to the colloidally dispersed particles which may be dispersed in solid particles and finely divided crystals. Appellant points out that he, by experimentation, had learned much concerning the proper use and the dangers attendant upon the use of the sulfanilamide drug and that by having the stated colloidal dispersion in the form of solid particles and finely divided crystals it afforded an opportunity for the allantoin and sulfanilamide in the ointment to be available when needed and that some of the colloidal dispersion would quickly perform its purpose and later the solid particles, and still later the crystals, would come into action.

It is on account of this argument that the Greenbaum patent becomes important. As is pointed out by the Solicitor for the Patent Office,

> * * * the Greenbaum patent adequately discloses all details of the ointment base. * * * the Greenbaum patent teaches the desirability of the form of the article specified and how to obtain it. In fact the present application refers to the Greenbaum patent, stating that the object is to provide an improvement over that patent and later states that "the combination of sulfanilamide and the other sulfa drugs with allantoin amounts to a continuation in direct line with the discoveries and invention represented by said Patent No. 2,124,295."

In view of certain features of appellant's patent where he describes his process and of certain limitations in the claims of the patent, such as "in minute crystals and colloidally dispersed throughout the mass," "dispersed in the form of a solution and minute particles," and "minute crystals and colloids," it is difficult to understand just what appellant seeks to accomplish by his present application. Incidentally it may be noted that claim 4 makes no mention of the dispersed particles in the solution but broadly calls for an ointment made up of the reaction product of a fatty acid with triethanolamine, glycerin, allantoin and a sulfa drug.

Moreover, we find the following in the specification of the patent:

> This provides an ointment in a greaseless base, containing approximately 2% allantoin uniformly distributed and suspended in solution and both in colloidal and crystalline form, or in other words, providing a combined colloidal dispersion and minute crystal form of allantoin throughout the greaseless base.

Appellant, as a proposition of law, states the following:

> It is well established that prior publications as well as prior patents in order to constitute anticipation of an invention must disclose the invention in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it appertains to construct the invention.

[2] That this is not a correct statement of law is too obvious to require comment and it is sufficient to state that the references relied upon by the Patent Office tribunals are sufficiently clear in their disclosures as to justify the holding that, in view of the said references, appellant's appealed claims do not define invention.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MASON

No. 5,093. Decided March 6, 1946

[— F.(2d) —: 69 USPQ 94]

1. PATENTABILITY—INVENTION.
   The bellows in the valve in issue *Held* the full equivalent of a piston; and *Held* that no invention resides in the substitution of one for the other.
2. APPEAL—UNSUPPORTED STATEMENTS.
   "It has been repeatedly held that no weight can be given to statements of counsel unsupported by the record."
3. REFERENCE—FOREIGN PATENT.
   "Appellant further argues that the foreign patents should be given no weight for the reason that they do not show an exact anticipation of his device. As pointed out by the Solicitor in his brief, a foreign patent is a printed publication and may be properly considered in determining the patentability of claims."
4. PATENTABILITY—VALVE.
   Claims to a combination safety head and closure valve *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Fishburn & Mullendore (*Mr. Emory L. Groff* and *Mr. Claude A. Fishburn* of counsel) for Mason.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This appeal is from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting, in view of the prior art, all of the claims, 10, 11, 12 and 13, of an application, Serial No. 421,437, filed December 3, 1941, for a patent on "Combination Safety Head and Closure Valve."

The references relied on are as follows: Smith (British), 20,873 of 1914; Smith, 2,047,750, July 14, 1936; Blondel (Swiss), 186,340, January 16, 1937; Franck, 2,239,169, April 22, 1941.

Claims 10 and 12 are illustrative, and read as follows:

> 10. A device of the character described including a valve casing having a valve chamber provided with a pressure inlet and a pressure outlet and an intermediate valve seat, a rupturable diaphragm closing said outlet from the valve chamber and subject to pressure admitted through said inlet, a valve member in the valve chamber, a bellows having one end attached to the valve member and its other end attached to the valve casing to suspend the valve member above said seat, the exterior of said bellows being subject to pressure acting on the rupturable diaphragm to contract said bellows and maintain suspension of the valve member above said seat as long as the pressure is retained by the diaphragm, and means acting on the valve member to seat the valve member when the pressure is released from the valve chamber responsive to rupture of the diaphragm.
>
> 12. A device of the character described including a valve casing having a valve chamber provided with a pressure inlet and a pressure outlet and an intermediate valve seat, a rupturable diaphragm closing said outlet from the valve chamber and subject to pressure admitted through said inlet, a valve member in the valve chamber, a stem on the valve member, a bellows encircling the stem and having one end attached to the valve member and its other end provided with an annular flange engaging a circumferential shoulder of the valve casing, a cap carried by the valve casing and engaging said flange to seal said flanged end of the diaphragm and suspend the valve member over said seat, a spring seat carried by said stem, and a spring in the cap having one end engaging the spring seat and its other end engaging the cap to effect seating of the valve member upon rupture of the diaphragm, the exterior of said bellows being subject to pressure retained in the valve chamber by the rupturable diaphragm to effect contraction of the bellows and retain the valving member in suspended position relative to the valve seat when the pressure is being retained by said diaphragm.

The application concerns a device intended to provide a safety means for the relief of excessively high pressure of a volatile fluid of gaseous character. It comprises a casing, the upper part of which is screw-threaded into the lower. Within the casing is a spring-motivated control valve, which remains unseated during normal pressure. Extending from the gas chamber of the valve is an outlet member closed by a rupturable membrane. When the pressure in the gas chamber reaches a point predetermined to be undesirable, the membrane is ruptured and the gas escapes through the outlet member until pressure is reduced to less than normal. Thereupon the control valve closes under pressure of the spring, cutting off the flow of gas. The ruptured membrane can be removed and one inserted in its place without dismantling the valve. As the pressure again rises to normal the control valve will be raised from its seat. The control valve is provided with a stem which extends upwardly through an opening in the upper portion of the valve, and around the upper part of the stem the spring is placed, between the upper end of the casing and a shoulder on the stem. A membrane, through which the valve stem passes, extends between the upper and lower parts of the casing. A tubular bellows surrounds the lower part of the valve stem and is held at its top end between the upper and lower parts of the casing just below the membrane, and its lower end is fastened to the body of the valve. The bellows is within the gas chamber, and its outside is subject to gas pressure while the inside is subject to atmospheric pressure. The spring is so adjusted that its pressure will seat the valve only when the gas pressure is below normal. No part of the valve or of the bellows contacts the walls of the casing.

The only difference between claim 10 and claim 11 is that the latter defines the valve member as being "loosely reciprocal" in the chamber. Claims 12 and 13 are more specific than claims 10 and 11, claim 13 differing from claim 12 in that it includes "said valve stem having an extension projecting through the cap and a knob on said stem for indicating position of the valve member in the valve casing."

The British patent to Smith relates to automatic safety devices attached to containers of fluid at super-atmospheric pressures. The device disclosed is provided with a diaphragm rupturable when the pressure of the fluid exceeds a predetermined limit. When this occurs a spring-actuated control valve is automatically moved to closed position in order to interrupt the flow of the fluid so that the diaphragm may be replaced without further loss of gas.

The United States patent to Smith relates to a fluid pressure relief valve in which is provided a means "for avoiding excessive loss of fluid after the device has functioned by stopping the flow when the pressure of the fluid is reduced by a desired amount." The device discloses a piston-actuated valve designed by spring means to seat on the inlet member thereof, thus cutting off the flow of gas. It is held in raised position by pressure which ruptures the diaphragm in the outlet member when excessive pressure is reached.

The Blondel patent is for a valve designed to control the pressure of liquefied gas. It comprises a stem or rod, spring-actuated, the spring being surrounded by a bellows in the gas chamber. When the spring is extended, the cone-shaped lower end of the stem closes the outlet. When predetermined pressure is sufficient to contract the spring the gas escapes through an opening member to relieve the pressure. When the pressure is relieved the cone-shaped stem again closes the inlet.

The Franck patent relates to pressure safety

valves embodying a rupturable disk and designed to remain sealed until predetermined pressure is exceeded, whereupon the disk ruptures, relieving the pressure. The structure comprises a spring-actuated member designed to close the inlet and is operable at a lower pressure than that required to rupture the disk. The spring is sealed from the escaping fluid by means of a bellows. When the disk is ruptured and pressure reduced, the spring-actuated valve reseats itself to prevent further escape of the fluid. The ruptured disk may be replaced without taking the valve apart and without further loss of fluid.

Claims 10 and 11 were rejected by the Examiner on the British patent to Smith, and further rejected upon the Franck patent in view of the Blondel patent. They were also rejected as unpatentable over the patent to Blondel in view of the patent of Franck and the British patent to Smith. Claim 12 was rejected on the Blondel reference in view of the United States patent to Smith. Claim 13 was rejected on the art as applied to claim 12, it being stated that appellant's knob is described in his specification as providing for manual lifting of the valve from its seat, although in claim 13 the function of the stem and knob is said to be for the purpose of "indicating position of the valve member in the valve casing." The Examiner held that the top of Blondel's device, also used for manual actuation of the valve, is in effect a knob for the same purpose as appellant described in his specification. Finally, all of the claims were rejected as unpatentable over the British patent of Smith or the Franck reference, showing a combination of a relief valve and disk designed to rupture at a greater pressure than that necessary to open the relief valve. The Examiner held that there was no new cooperation between the disk and valve of appellant's apparatus over those disclosed in the references.

The Board of Appeals in its general affirmance held that the British patent discloses a structure which accomplishes the same result as that reached by appellant "in much the same way." It further held that the use of metallic bellows as a substitute for diaphragms and pistons was quite common, citing the Blondel patent as an example thereof. The Board was of opinion that, while the Blondel patent shows no rupturable diaphragm in connection with the relief valve, nevertheless when high pressure unseats the Blondel valve the pressure on the bellows tends to hold it open against the spring pressure exerted in the opposite direction.

[1] Both of the Smith references and the Franck patent disclose devices for the same use as that claimed in the structure of appellant. In each of them a rupturable diaphragm or disk closes the outlet, and when ruptured the escape of gas continues until the desired lower pressure is reached, when the valve is closed by pressure of a spring. The rejection of claims 10 and 11 as unpatentable over the British patent was based chiefly upon the principle that the bellows of appellant is the full equivalent of a piston, and no invention resides in the substitution of one for the other. In our opinion that reasoning was clearly proper. In the British patent the pressure of gas below the piston resists the downward movement of the valve caused by the spring pressure, and downward movement in the valve of appellant's device is resisted by gas pressure said to be due to the difference in inside and outside pressures on the wall of the bellows.

In our opinion claim 12 was properly rejected on the Blondel reference in view of the United States patent to Smith. We can see no reason why, if the device of Blondel were provided with a rupturable disk in the outlet and also with the spring seat mounted in the upper portion of the casing as taught by the United States patent to Smith, appellant's structure would not be completely anticipated.

As far as the rejection of claim 13 is concerned we are of opinion that the knob on the end of the stem projecting through the top of appellant's device, which is said in the claim to indicate the position of the valve member in the casing, is not patentable over the prior art. It surely would not involve invention to place a knob on the top of the stem in order to observe whether the stem was up or down, in view of the structure of the Blondel device. As hereinbefore pointed out, no such use was suggested for the knob in appellant's specification.

[2] Appellant has vigorously urged in his brief that his claims should be held patentable not only because they are not anticipated by the prior art but because his valve has met with commercial success, for the reason that when used with corrosive liquids it does not tend to stick as do the devices of the prior art. It may well be that the sticking of valves was a problem in the art until the advent of appellant's device. However, there is nothing in the record to suggest such problem or its having been solved by appellant, and it has been repeatedly held that no weight can be given to statements of counsel unsupported by the record. *In re Beeson*, 26 C. C. P. A. (Patents) 755, 100 F.(2d) 191, 40 USPQ 122, 500 O. G. 764.

[3] Appellant further argues that the foreign patents should be given no weight for the reason that they do not show an exact anticipation of his device. As pointed out by the Solicitor in his brief, a foreign patent is a printed publication and may be properly considered in determining the patentability of claims. *In re Cross*, 20 C. C. P. A. (Patents) 710, 62 F.(2d) 182, 16 USPQ 10, 426 O. G. 457.

[4] We are in agreement with the tribunals below that there is no new cooperation between the disk and valve combination of appellant's device over that shown by the references, and therefore the decision of the Board of Appeals is affirmed.

Affirmed.

Notice

CONVERSION OF AN ORDER 3662 APPLICATION INTO A STATUTORY APPLICATION

U. S. PATENT OFFICE, *Washington 25, D. C., May 24, 1946.*

While an application filed under Order 3662, October 13, 1942, 543 O. G. 649, (hereinafter referred to as the original application), may not be passed for issue, or placed in interference with a patent or an application regularly filed under the statutes until the conditions stated in the last paragraph of the order have been met, it is permissible to convert said original application into a statutory application by filing within six months from the filing date of the original application a substitute set of papers executed in accordance with Rule 30. In such a situation the filing fee of the original application will be construed as one of the component parts of the statutory application.

If the applicant desires to convert the original application into a statutory application although more than six months has intervened between the filing of the original application and the substitute papers executed by the inventor he may treat the original application as abandoned under R. S. 4894, and to secure the acceptance of the substitute papers, that is the duly executed petition, specification and oath, and properly signed drawing, if there be a drawing, as parts of the statutory application, a petition to revive may be filed (Rule 172) with the required showing of unavoidable delay and fee of $10.00. The filing fee of the original application will be treated as above.

This notice constitutes a restatement of the notice of April 2, 1946.

CASPER W. OOMS,
Commissioner.

Notice of Tentative Recordation of Trade Name

[T. D. 51478]

Tentative recordation of trade name under section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
Washington, D. C., June 20, 1946

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following-described trade name under the provisions of section 27, Trade-Mark Act of February 20, 1905, and section 11.16, Customs Regulations of 1943:

"English Films Inc.," owned by English Films Inc., 1560 Broadway, New York 19, N. Y., which is applied to motion picture films and printed matter and accessories used in connection with the distribution of such films, the merchandise being manufactured in the United States.

The recordation of the foregoing trade name shall become final at the expiration of 30 days after July 2, 1946. Any person who desires to file an opposition to the recordation of this trade name shall file it with the Commissioner of Customs prior to the expiration of such 30-day period.

Until the expiration of the above-mentioned 30-day period any articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless notice of the cancellation of the recordation is sooner received.

(Signed) W. R. JOHNSON,
Commissioner of Customs.

Trade-Mark Registrations Canceled

236,842. Certain named chemical preparation. Samuel Edelman, Philadelphia, Pa. Registered Dec. 27, 1927. Canceled June 10, 1946.

239,927. Certain named chemical preparation. Giovanni Fiore, New York, N. Y. Registered Mar. 13, 1928. Canceled June 10, 1946.

248,001. Certain named foods. The J. S. Brown Mercantile Company, Denver, Colo. Registered Oct. 9, 1928. Canceled June 10, 1946.

255,028. Certain named underwear. The Futurist Company, Burlington, Wis. Registered Apr. 9, 1929. Canceled May 10, 1946.

272,321. Preparation for the treatment of dandruff. Josephine C. La Rue, Seattle, Wash. Registered July 1, 1930. Canceled June 10, 1946.

281,697. Certain named machines. Karl Lieberknecht G. m. b. H., Oberlungwitz, Germany. Registered Mar. 24, 1931. Canceled May 10, 1946.

291,026. Certain named machines. Karl Lieberknecht G. m. b. H., Oberlungwitz, Germany. Registered Jan. 26, 1932. Canceled May 10, 1946.

301,357. Radio and television receiving sets. Zenith Radio Corporation, Chicago, Ill. Registered Feb. 28, 1933. Canceled May 10, 1946.

301,358. Radio and television receiving sets. Zenith Radio Corporation, Chicago, Ill. Registered Feb. 28, 1933. Canceled May 10, 1946.

333,932. Bulldozers, road rippers and scrapers. Emsco Derrick & Equipment Company, Los Angeles, Calif. Registered Apr. 14, 1936. Canceled June 10, 1946.

350,459. Stock-tank heater. George W. Mundie, Jr., Peru, Ill. Registered Sept. 28, 1937. Canceled May 10, 1946.

355,488. Women's dresses. International Dress Co., Inc., New York, N. Y. Registered Mar. 15, 1938. Canceled June 10, 1946.

380,141. Certain named glassware. A. J. Van Dugteren & Sons, Inc., New York, N. Y. Registered Aug. 6, 1940. Canceled June 10, 1946.

383,392. Cigars and smoking tobaccos. Henry A. Garfunkel, Jersey City, N. J. Registered Dec. 3, 1940. Canceled June 10, 1946.

395,289. Certain named nonalcoholic beverages. Judge & Dolph, Ltd., Chicago, Ill. Registered May 19, 1942. Canceled June 10, 1946.

402,067. Certain named clothing. Western Auto Supply Company, Kansas City, Mo. Registered June 29, 1943. Canceled Mar. 12, 1946.

405,316. Hydraulic brake boosters. Vickers Manufacturing Corporation, Buffalo, N. Y. Registered Jan. 18, 1944. Canceled June 10, 1946.

405,647. Hair preparation. O. Robert White, New York, N. Y. Registered Feb. 8, 1944. Canceled May 10, 1946.

409,500. Perfumes, toilet water. Louise Fabish, New York, N. Y. Registered Oct. 10, 1944. Canceled May 13, 1946.

410,161. Cream-like spermicidal preparation. Whittaker Laboratories, Inc., New York, N. Y. Registered Nov. 7, 1944. Canceled May 10, 1946.

415,246. Men's and women's shoes. Foot Health Shoe Institute, Inc., New York, N. Y. Registered July 31, 1945. Canceled Apr. 15, 1946.

417,789. Fur coats. Lapiner Fur Company, New York, N. Y. Registered Nov. 13, 1945. Canceled June 10, 1946.

420,316. Magazine column. The F-R Publishing Corporation, New York, N. Y. Registered Apr. 2, 1946. Canceled May 10, 1946.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 27, 1946.*

Robert Harris, his assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Anna-Jean Yuill, 1 North La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of Robert Harris, No. 358,116, dated June 28, 1938. The assignment records of this Office show a transfer of title to this registration to Alka Bromo Corporation, 6650 Franklin Ave., Los Angeles, Calif., which has been substituted for said Harris to defend the registration concerned. The notice of such proceeding sent by registered mail to Alka Bromo Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Alka Bromo Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 8, 1946.*

The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Reid, Murdoch & Co., 325 N. La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of The Mon-Ark Medicine Corporation, Inc., 421 Elberon Ave., Cincinnati, Ohio, No. 273,229, dated July 22, 1930, and the notice of such proceeding sent by registered mail to the said The Mon-Ark Medicine Corporation, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,265,409. FRUIT JUICE EXTRACTOR. Patented Dec. 9, 1941. Device is mounted on four supporting legs high enough to allow a glass to be placed under a discharge spout. Half orange rests on an inclined supporting plate and after juice is extracted the rind is automatically ejected through the bottom of device into a concealed receptacle. (Owner) Henry A. Verbrugge, P. O. Box 1178, Church St. Annex, New York, N. Y. Group 34—41—99. Reg. No. 3,109.

Pat. 2,396,975. STIRRING DEVICE. Patented Mar. 19, 1946. Bar spoon has conventional bowl; the upper portion of the shaft being held within a rotatable sleeve and capped by a knob. Construction allows twirling of the spoon so that iced drinks may be properly mixed. (Owner) Henry A. Verbrugge, P. O. Box 1178, Church St. Annex, New York, N. Y. Group 34—54. Reg. No. 3,110.

Des. 144,280. DESIGN FOR A MEDICINE APPLICATOR OR SIMILAR ARTICLE. Patented Apr. 2, 1946. Applicator has a series of longitudinal grooves which taper toward ball-ended tip. (Owner) Ray S. Anderson, Box 225, Bessemer, Ala. Group 32—29. Reg. No. 3,111.

Pat. 2,275,834. ANTISKID APPARATUS. Patented Mar. 10, 1942. Antiskid chain arrangement for automobile wheels and the like consists of a combination of two rings to which a series of small plates carrying cross chains are detachably fastened. The rings are split in half and permanently carried by the wheels. To attach the rings the tires are partially deflated and after hook portions on the periphery of the rings have been placed between the tire beading and edge of the rim the tires are fully inflated. The rings may be formed integral with the wheels if desired. (Owner) James F. Alexander, 84 Chestnut St., Indian Orchard, Mass. Groups 33—49; 38—31. Reg. No. 3,112.

Des. 144,296. DESIGN FOR A DISH. Patented Apr. 2, 1946. Sectionalized dish; has oval-shaped center compartment with surrounding sections designed for vegetables, etc. Full meal may be served at one time in one dish. May be manufactured from a variety of materials. (Owner) Mrs. Thomas Cobb King, 1800 Kenyon St. N. W., Washington, D. C. Groups 26—99; 32—29—69. Reg. No. 3,113.

Pat. 2,393,478. MEASURING DISPENSER. Patented Jan. 22, 1946. For dispensing a predetermined amount of contents of a collapsible tube containing tooth paste or the like. Comprises a ball (which must have the same specific gravity as contents of tube) and tube cap with an inwardly extending stem. Before tube is filled ball is dropped inside and seats over discharge opening. Cap is screwed on tube causing stem to unseat ball and force it into suspension in contents. When tube is collapsed (after cap has been removed) ball moves with contents and closes opening after desired amount of paste has been extruded. (Owner) John W. Porter, Muskogee, Okla. Groups 34—92; 39—81; 40. Reg. No. 3,114.

Pat. 2,397,492. MACHINIST'S GAUGE. Patented Apr. 2, 1946. For precision measurement of heights on planers, shapers, and similar machines. It is designed to allow the gauge head to be quickly set at a roughly approximated position and thereafter adjusted with precision to a final setting and secured against accidental displacement from such final setting. (Owner) Gerald Koning, R. R. #2, Hamilton, Mich. Group 35—43. Reg. No. 3,115.

Pat. 2,398,543. VENDING MACHINE. Patented Apr. 16, 1946. Vending machine mounted on either side of a conventional coin-controlled record playing machine has a number of compartments which contain printed cards or sheets bearing the words of popular songs. By inserting an additional coin in the vender, a sheet or card containing the words of the piece being played will be obtained. Cards may be replenished or changed. (Owners) Thomas D. Lo Cascio and Genevieve G. Lo Cascio. Address correspondence to Thomas D. Lo Cascio, 12 Hancock Ave., Jersey City 7, N. J. Groups 25—11; 35—73. Reg. No. 3,116.

Pat. 2,314,772. BROILER. Patented Mar. 23, 1943. For broiling steaks, chops, whole fowl, etc., which are suspended vertically. Broiler is designed to permit easy replacement or repair of parts and is easily kept clean and sanitary. Suspended within a box-like enclosure having an open top and front are two elongated, upright charcoal burners which include a series of closely spaced, U-shaped rods, strips or the like. Burners are easily adjusted toward and away from each other by pulling or pushing a handle. The burners as units, U-shaped strips, grill, drip pan, and ash trays, are all removably mounted. (Owner) Thomas Corra. Address correspondence to Philip S. McLean, 233 Broadway, New York, N. Y. Group 33—62—73. Reg. No. 3,117.

Pat. 2,391,885. FLEXIBLE JOINT. Patented Jan. 1, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Pipe joint is designed so that one of the members may have both longitudinal and rotational movement with respect to another. It has special application in pressing machines or the like in that it eliminates employment of conventional steam hose connection. The elements have freedom of movement without any danger of leakage and the joint does not require frequent packing. It is of simplified construction and among its features is provision of a spring within the joint which has a tendency to compress the packing at all times. (Owner) O'Connell H. Deshields, 528 North 32d St., Philadelphia 4, Pa. Group 35—69—82. Reg. No. 3,118.

Des. 144,286. DESIGN FOR AN ATHLETIC SUPPORTER. Patented Apr. 2, 1946. May be worn to replace "Shorts" and provide abdominal support, being adjustable to fit persons of different sizes. (Owner) Maurice B. Burston, Box 145, Wethersfield 9, Conn. Groups 23—22—29; 39—16. Reg. No. 3,119.

Pat. 2,397,064. TRACTION WEIGHT AND FENCE GUARD. Patented Mar. 19, 1946. Ball for attachment to tractors is adapted to be mounted on the end of the power axle outside a traction wheel to provide a guard (in addition to a traction weight) to prevent entanglement or damage to the fence should wheel come in contact therewith. A band having reflector beads or buttons may encircle ball and serve as a road signal. (Owner) James Verner, Pocahontas, Iowa. Group 35—21—69. Reg. No. 3,120.

Pat. 2,061,651. VEHICLE SPRING. Patented Nov. 24, 1936. Spring assembly dispenses entirely with standard types of semi-elliptical leaf or coil springs and provides for mounting vehicle axle in a relatively large block of rubber so that shocks, jars, etc., will be wholly or largely absorbed by block. Block made in half sections is placed around axle and engaged from opposite sides by the free ends of two opposed toggle arms which have their other ends pivoted directly to chassis. Another connection between chassis and arms permits vertical, pivotal movement of arms between predetermined limits. Block and toggle arms form the only connection between axle and chassis. Provision is made to prevent displacement of the block and it may be easily replaced when desired. Modification is shown. (Owner) C. William Clauson, Claybrook Road, Dover, Mass. Groups 33—72; 38—31. Reg. No. 3,121.

Pat. 2,391,636. GUN. Patented Dec. 25, 1945. Relates especially to rapid-firing guns of large caliber. Gun combines the forces of centrifugal force and combustion for firing projectiles. It is provided with a high speed rotor having a bore for the passage of projectiles therethrough. The projectile is thrown forwardly into and started through the gun barrel by centrifugal force of the rotor, and immediately after its entrance into the barrel the entire explosive force of either a combustible fluid or powder charge is utilized to further accelerate its flight. May also be used on fire engines to throw fire extinguishing bombs, or for throwing dust or sand. (Owner) Graham S. McArthur, General Delivery, Portland, Oreg. Group 33—X1. Reg. No. 3,122.

The following list covers television and radio patents placed on the Register by Farnsworth Television & Radio Corporation for licensing under standard terms and conditions. Additional lists will be published from time to time. Inquiries for detailed information should be directed to Patent Department, Farnsworth Television & Radio Corporation, Fort Wayne, Indiana. Group 36—61. Reg. Nos. 3,123 to 3,243 inclusive.

Pat. 2,159,521. ABSORPTION OSCILLATOR. Patented May 23, 1939.

Pat. 2,161,620. TWO-STAGE ELECTRON MULTIPLIER. Patented June 6, 1939.

Pat. 2,163,966. BOX ELEMENT MULTIPLIER. Patented June 27, 1939.

Pat. 2,168,052. STABILIZED OSCILLATING CIRCUIT. Patented Aug. 1, 1939.

Pat. 2,168,768. TELEVISION METHOD. Patented Aug. 8, 1939.

Pat. 2,171,573. REMOTE CONTROL ADJUSTING DEVICE. Patented Sept. 5, 1939.

Pat. 2,172,152. RADIO FREQUENCY MULTIPACTOR AMPLIFIER. Patented Sept. 5, 1939.

Pat. 2,172,155. ELECTRON MULTIPLIER TUBE. Patented Sept. 5, 1939.

Pat. 2,174,487. SELF-ENERGIZED A. C. MULTIPLIER. Patented Sept. 26, 1939.

Pat. 2,174,488. OSCILLATOR. Patented Sept. 26, 1939.

Pat. 2,174,490. TELEPHOTO SYSTEM. Patented Sept. 26, 1939.

Pat. 2,179,086. MEANS FOR PRODUCING AN INCANDESCENT IMAGE. Patented Nov. 7, 1939.

Pat. 2,179,576. TUNING CONTROLS FOR RADIO RECEIVERS OR THE LIKE. Patented Nov. 14, 1939.

Pat. 2,179,996. ELECTRON MULTIPLIER. Patented Nov. 14, 1939.

Pat. 2,180,279. METHOD OF OPERATING ELECTRON MULTIPLIERS. Patented Nov. 14, 1939.

Pat. 2,184,910. COLD CATHODE ELECTRON DISCHARGE TUBE. Patented Dec. 26, 1939.

Pat. 2,185,395. APERTURED ELECTRODES FOR THERMIONIC TUBES. Patented Jan. 2, 1940.

Pat. 2,185,407. SELECTIVELY OPERABLE AUTOMATIC ADJUSTING MEANS. Patented Jan. 2, 1940.

Pat. 2,189,358. DIODE OSCILLATOR TUBE CONSTRUCTION. Patented Feb. 6, 1940.

Pat. 2,189,558. CONTROLS FOR VOLUME AND TUNING OF A RADIO SET. Patented Feb. 6, 1940.

Pat. 2,189,990. ELECTRICAL SYSTEMS. Patented Feb. 13, 1940.

Pat. 2,200,166. IMAGE ANALYZING AND DISSECTING TUBE. Patented May 7, 1940.

Pat. 2,203,048. SHIELDED ANODE ELECTRON MULTIPLIER. Patented June 4, 1940.

Pat. 2,204,479. MEANS AND METHODS FOR PRODUCING ELECTRON MULTIPLICATION. Patented June 11, 1940.

Re. 21,504. IMAGE DISSECTORS. Reissued July 9, 1940.

Pat. 2,208,938. DIVIDED STREAM ELECTRON MULTIPLIERS. Patented July 23, 1940.

Pat. 2,213,070. IMAGE SOURCE. Patented Aug. 27, 1940.

Pat. 2,214,077. SCANNING CURRENT GENERATOR. Patented Sept. 10, 1940.

Pat. 2,216,264. MEANS AND METHODS OF IMAGE ANALYSIS. Patented Oct. 1, 1940.

Pat. 2,216,265. IMAGE DISSECTORS. Patented Oct. 1, 1940.

Pat. 2,216,266. TWO-STAGE OSCILLOGRAPHS. Patented Oct. 1, 1940.

Pat. 2,217,860. SPLIT CATHODE MULTIPLIERS. Patented Oct. 15, 1940.

Pat. 2,219,120. FACSIMILE SYSTEM. Patented Oct. 22, 1940.

Pat. 2,219,687. SELECTIVELY OPERABLE MECHANISM. Patented Oct. 29, 1940.

Pat. 2,221,374. X-RAY PROJECTION DEVICE. Patented Nov. 12, 1940.

Pat. 2,221,473. AMPLIFIER. Patented Nov. 12, 1940.

Pat. 2,221,474. METHOD OF DEPOSITING FLUORESCENT MATERIAL. Patented Nov. 12, 1940.

Pat. 2,223,001. HIGH EFFICIENCY AMPLIFIER. Patented Nov. 26, 1940.

Pat. 2,226,077. RADIO FREQUENCY MULTIPLIER AMPLIFIER. Patented Dec. 24, 1940.

Pat. 2,226,436. SYSTEM OF PICTURE TRANSMISSION. Patented Dec. 24, 1940.

Pat. 2,228,388. CATHODE RAY AMPLIFIER. Patented Jan. 14, 1941.

Pat. 2,232,787. TUNING CONTROL FOR RADIO RECEIVERS OR THE LIKE. Patented Feb. 25, 1941.

Pat. 2,233,878. ELECTRON MULTIPLIER. Patented Mar. 4, 1941.

Pat. 2,233,887. IMAGE PROJECTOR. Patented Mar. 4, 1941.

Pat. 2,233,888. CHARGE STORAGE AMPLIFIER. Patented Mar. 4, 1941.

Pat. 2,235,249. METHOD AND APPARATUS FOR TONE CONTROL OF SOUND REPRODUCING SYSTEMS. Patented Mar. 18, 1941.

Pat. 2,235,477. DISSECTOR TUBE. Patented Mar. 18, 1941.

Pat. 2,237,334. MEANS FOR GENERATING A PULSE IN A CATHODE RAY TUBE. Patented Apr. 8, 1941.

Pat. 2,239,149. ELECTRONIC AMPLIFIER. Patented Apr. 22, 1941.

Pat. 2,246,625. TELEVISION SCANNING AND SYNCHRONIZING SYSTEM. Patented June 24, 1941.

Pat. 2,251,124. CATHODE RAY AMPLIFYING TUBE. Patented July 29, 1941.

Pat. 2,254,140. IMAGE ANALYZING SYSTEM. Patented Aug. 26, 1941.

Pat. 2,257,942. IMAGE AMPLIFIER. Patented Oct. 7, 1941.

Pat. 2,257,985. POWER MULTIPLIER. Patented Oct. 7, 1941.

Pat. 2,260,613. ELECTRON MULTIPLIER. Patented Oct. 28, 1941.

Pat. 2,263,032. COLD CATHODE ELECTRON DISCHARGE TUBE. Patented Nov. 18, 1941.

Pat. 2,264,630. DISSECTOR TUBE. Patented Dec. 2, 1941.

Re. 22,009. ELECTRON IMAGE AMPLIFIER. Reissued Jan. 20, 1942.

Pat. 2,274,194. APPARATUS FOR AND METHOD OF ELECTRON DISCHARGE CONTROL. Patented Feb. 24, 1942.

Pat. 2,275,065. MODULATION SYSTEM. Patented Mar. 3, 1942.

2,280,572. SCANNING MEANS AND METHODS. Patented Apr. 21, 1942.

Pat. 2,282,123. MOSAIC SCREEN. Patented May 5, 1942.

Pat. 2,284,179. RADIO RECEIVER CONTROL DEVICE. Patented May 26, 1942.

Pat. 2,286,076. ELECTRON CONTROL DEVICE. Patented June 9, 1942.

Pat. 2,286,478. CATHODE RAY TUBE TARGET. Patented June 16, 1942.

Pat. 2,387,307. TELEVISION RECEIVING SYSTEM. Patented June 23, 1942.

Pat. 2,287,607. RECTIFIER. Patented June 23, 1942.

Pat. 2,288,030. TRANSMISSION LINE STRUCTURE. Patented June 30, 1942.

Pat. 2,290,377. ANODE MODULATED TUBE. Patented July 21, 1942.

Pat. 2,291,462. ELECTRON GUN. Patented July 28, 1942.

Pat. 2,291,577. IMAGE AMPLIFIER. Patented July 28, 1942.

Pat. 2,292,111. IMPROVED IMAGE DISSECTOR. Patented Aug. 4, 1942.

Pat. 2,292,437. ELECTRON IMAGE AMPLIFIER. Patented Aug. 11, 1942.

Pat. 2,294,072. TELEVISION SYNCHRONIZING SYSTEMS. Patented Aug. 25, 1942.

Pat. 2,294,797. IMPROVED OSCILLATOR. Patented Sept. 1, 1942.

Pat. 2,297,949. DEFLECTING SYSTEM. Patented Oct. 6, 1942.

Pat. 2,301,388. CATHODE RAY SIGNAL REPRODUCING TUBE. Patented Nov. 10, 1942.

Pat. 2,301,521. COLOR TELEVISION SYSTEM. Patented Nov. 10, 1942.

Pat. 2,301,522. AUTOMATIC BLACK LEVEL CONTROL. Patented Nov. 10, 1942.

Pat. 2,303,575. FREQUENCY MULTIPLIER. Patented Dec. 1, 1942.

Pat. 2,304,633. ELECTRIC RECORDING AND REPRODUCING SYSTEM. Patented Dec. 8, 1942.

Pat. 2,304,635. FREQUENCY MODULATION MONITOR. Patented Dec. 8, 1942.

Pat. 2,309,506. COLOR TELEVISION SYSTEM. Patented Jan. 26, 1943.

Pat. 2,311,981. ELECTRON CONTROL DEVICE. Patented Feb. 23, 1943.

Pat. 2,312,792. COLOR TELEVISION SYSTEM. Patented Mar. 2, 1943.

Pat. 2,312,800. COLOR TELEVISION APPARATUS. Patented Mar. 2, 1943.

Pat. 2,313,224. COLOR TELEVISION SYSTEM. Patented Mar. 9, 1943.

Pat. 2,315,113. TELEVISION PROJECTING SYSTEM. Patented Mar. 30, 1943.

Pat. 2,321,521. FREQUENCY BAND FILTER. Patented June 8, 1943.

Pat. 2,323,512. CONTINUOUS PROJECTOR. Patented July 6, 1943.

Pat. 2,323,513. CONTINUOUS PROJECTOR. Patented July 6, 1943.

Pat. 2,323,672. FREQUENCY MULTIPLIER. Patented July 6, 1943.

Pat. 2,326,469. SUPPORTING DEVICE. Patented Aug. 10, 1943.

Pat. 2,329,877. DEMODULATION SYSTEM. Patented Sept. 21, 1943.

Pat. 2,337,736. COLOR FILTER DISC. Patented Dec. 28, 1943.

Pat. 2,342,475. VACUUM TUBE HOLDER. Patented Feb. 22, 1944.

Pat. 2,345,668. IMPULSE GENERATOR. Patented Apr. 4, 1944.

Pat. 2,350,331. COMMUNICATION SYSTEM. Patented June 6, 1944.

Pat. 2,352,488. VIDEO SIGNAL CONTROL SYSTEM. Patented June 27, 1944.

Pat. 2,353,876. SIGNAL MIXING AMPLIFIER. Patented July 18, 1944.

Pat. 2,355,212. IMAGE REPRODUCING DEVICE. Patented Aug. 8, 1944.

Pat. 2,355,275. ARTIFICIAL ANTENNA. Patented Aug. 8, 1944.

Pat. 2,361,745. POWER SUPPLY CIRCUIT. Patented Oct. 31, 1944.

Pat. 2,366,902. KEYSTONE CORRECTION CIRCUIT. Patented Jan. 9, 1945.

Pat. 2,367,600. AMPLIFIER SYSTEM. Patented Jan. 16, 1945.

Pat. 2,369,824. KEYSTONE CORRECTION CIRCUIT. Patented Feb. 20, 1945.

Pat. 2,373,165. UNIDIRECTIONAL POWER SUPPLY. Patented Apr. 10, 1945.

Pat. 2,375,551. IMPULSE AMPLIFIER. Patented May 8, 1945.

Pat. 2,377,500. VOLTAGE REGULATOR. Patented June 5, 1945.

Pat. 2,378,857. VISUAL INDICATING SYSTEM. Patented June 19, 1945.

Pat. 2,379,617. COMBINED RADIO AND PHONOGRAPH SYSTEM. Patented July 3, 1945.

Pat. 2,380,366. MODULATING SYSTEM FOR FREQUENCY MULTIPLIERS. Patented July 10, 1945.

Pat. 2,387,685. VOLTAGE GENERATOR. Patented Oct. 23, 1945.

Pat. 2,389,948. FREQUENCY COMPARISON APPARATUS. Patented Nov. 27, 1945.

Pat. 2,389,979. COLOR TELEVISION SYSTEM. Patented Nov. 27, 1945.

Pat. 2,389,991. MOSAIC SENSITIVITY INDICATOR. Patented Nov. 27, 1945.

Pat. 2,389,992. AUTOMATIC FREQUENCY CONTROL APPARATUS. Patented Nov. 27, 1945.

Pat. 2,393,235. COLOR FLICKER REDUCING APPARATUS. Patented Jan. 22, 1946.

Pat. 2,395,102. MODULATION SYSTEM. Patented Feb. 19, 1946.

Pat. 2,395,573. MODULATING SYSTEM. Patented Feb. 26, 1946.

Pat. 2,396,023. TELEVISION SIGNAL AMPLIFIER. Patented Mar. 5, 1946.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 23, 1946

[VOL. 588. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 478,137. MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 1, 1945.

OTTER

FOR LEATHER.
Claims use since 1907.

Ser. No. 483,687. GREAT LAKES COAL & DOCK CO., St. Paul, Minn. Filed May 23, 1945.



No claim is made to the words "Eastern Kentucky" apart from the mark. The lining on the drawing represents shading only. The drawing is fanciful.
FOR FUEL—NAMELY, COAL.
Claims use since May 1, 1944.

Ser. No. 491,579. MARTINEAU & BURKE LEATHER CORP., Boston, Mass. Filed Nov. 14, 1945.

PARAMOUNT

FOR LEATHER.
Claims use since July 16, 1939.

CLASS 2

RECEPTACLES

Ser. No. 464,986. BIRD & SON, INC., East Walpole, Mass. Filed Nov. 15, 1943.

GREEN THUMB

FOR POTS, BOXES AND OPEN-TOPPED CONTAINERS, ALL MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL, AND ALL USED FOR GERMINATING SEEDS AND/OR FOR GROWING, STORING, DISPLAYING OR TRANSPORTING PLANTS, FLOWERS, FRUIT AND VEGETABLES.
Claims use since Sept. 24, 1943.

Ser. No. 469,185. BIRD & SON, INC., East Walpole, Mass. Filed Apr. 10, 1944.

GREEN FINGER

FOR SEED, FLOWER, FRUIT AND PLANT POTS, ALL MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL, PLANT AND SEED-GROWING BOXES, PLANT AND SEED-GROWING OPEN-TOPPED CONTAINERS, ALL MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL.
Claims use since Feb. 18, 1944.

Ser. No. 469,186. BIRD & SON, INC., East Walpole, Mass. Filed Apr. 10, 1944.

GREEN HAND

FOR SEED, FLOWER, FRUIT AND PLANT POTS, ALL MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL, PLANT AND SEED-GROWING BOXES, PLANT AND SEED-GROWING OPEN-TOPPED CONTAINERS, ALL MADE OF FLEXIBLE FIBROUS COMPOSITION MATERIAL.
Claims use since Feb. 18, 1944.

Ser. No. 486,431. NEW YORK MERCHANDISE CO., INC., New York, N. Y. Filed July 28, 1945.

Darling

FOR EMPTY COMPACTS MADE OF BASE METALS, CARDBOARD, AND PLASTIC MATERIALS.
Claims use since May 3, 1921.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 468,724. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname "Phillips" apart from the mark. The drawing is lined for the colors mandarin orange and black.
FOR GLASS AND METAL CLEANER, TIRE COATING OR DRESSING, PRE-WAX CLEANER, SPOT REMOVER, AND CHEMICALLY TREATED DUST CLOTH.
Claims use since April 1935 on glass and metal cleaner; since April 1938 on tire coating; since April 1938 on pre-wax cleaner; since August 1931 on spot remover; and since November 1932 on chemically treated dust cloths.

Ser. No. 489,411. PASSAIC ANALYTICAL LABORATORIES, INC., Passaic, N. J. Filed Oct. 4, 1945.

ENG-SOL

FOR SOLUTIONS TO BE USED FOR CLEANING THE SURFACES OF ARTICLES, SUCH AS GLASS, BALL BEARINGS, LENSES, JEWEL BEARINGS METALS, PLASTICS, CLOTHING, FABRICS, ETC.
Claims use since Sept. 17, 1945.

Ser. No. 490,418. FRED C. DE LAP AND DOROTHY DE LAP, Sacramento, Calif. Filed Oct. 24, 1945.

BLOOD-X

No claim is made to the word "Blood" apart from the mark.
FOR PREPARATION FOR REMOVING BLOOD STAINS FROM FABRICS.
Claims use since Aug. 1, 1944.

Ser. No. 494,431. EL PARAISO DE PURUA, FUENTES TERMALES, S. A., Mexico City, Mexico. Filed Jan. 8, 1946.

PURUA

FOR TOILET SOAP.
Claims use since Jan. 4, 1945.

Ser. No. 495,917. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Feb. 2, 1946.

Tay

FOR GENERAL PURPOSE CLEANING COMPOUND.
Claims use since Sept. 1, 1945.

Ser. No. 496,436. DU-RITE PRODUCTS COMPANY, INC., Brentwood, Md. Filed Feb. 12, 1946.

SOFTEE

FOR A CLEANSING PREPARATION, SOLUBLE IN WATER, USED IN THE REMOVAL OF GREASE, DIRT, AND THE LIKE, FOR THE WASHING OF DISHES, GLASSES, CHINA, SILVERWARE, POTS AND PANS, AND FOR THE WASHING OF CLOTHES AND FOR GENERAL HOUSEWORK-WASHING.
Claims use since Jan. 15, 1946.

Ser. No. 498,112. CARE LABORATORIES, INCORPORATED, Charlotte, N. C. Filed Mar. 13, 1946.

CARE

FOR A SYNTHETIC DETERGENT CLEANER FOR DELICATE WASHABLE FABRICS.
Claims use since Mar. 2, 1946.

Ser. No. 498,113. CARE LABORATORIES, INCORPORATED, Charlotte, N. C. Filed Mar. 13, 1946.

CARE

FOR A SYNTHETIC DETERGENT CLEANER FOR DELICATE WASHABLE FABRICS.
Claims use since Mar. 2, 1946.

Ser. No. 500,285. THE CLIMALENE COMPANY, Canton, Ohio. Filed Apr. 16, 1946.

TEX

FOR CHEMICAL COMPOUNDS FOR WASHING AND CLEANING.
Claims use since Apr. 1, 1925.

CLASS 5

ADHESIVES

Ser. No. 468,723. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname "Phillips" apart from the mark. The drawing is lined for the colors black and mandarin orange.
FOR GASKET CEMENT.
Claims use since Apr. 1, 1938.

Ser. No. 497,719. THE KEEVER STARCH COMPANY, Columbus, Ohio. Filed Mar. 6, 1946.



FOR WHEAT PASTE.
Claims use since Nov. 9, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 472,533. PRODUCTS INCORPORATED, Los Angeles, Calif. Filed July 22, 1944.

SULFADOL

FOR LINIMENT FOR THE TREATMENT OF RHEUMATIC PAINS AND MUSCULAR ACHES.
Claims use since May 17, 1943.

Ser. No. 493,744. COTY, INC., New York, N. Y. Filed Dec. 22, 1945.

PANACHE

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Dec. 12, 1945.

Ser. No. 494,657. CONSOLIDATED COSMETICS, Chicago, Ill. Filed Jan. 12, 1946.

BATU

FOR LIPSTICK, PERFUME, BRILLIANTINE, HAND CREAM, AND FACE POWDER.
Claims use since June 8, 1945.

Ser. No. 494,714. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Jan. 12, 1946.

'SULFATALIDINA'

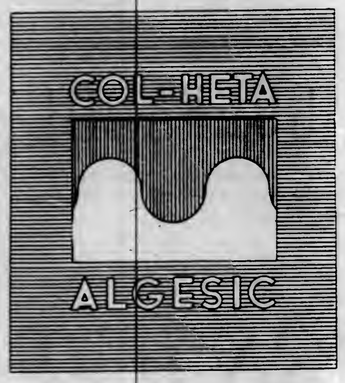
FOR PHARMACEUTICAL PRODUCT USEFUL AS A BACTERICIDE AND AS AN ANTISEPTIC.
Claims use since Nov. 2, 1945.

Ser. No. 494,718. WILLIAM SQUIRE STEVENS, doing business as W. Stevens & Co., London, England. Filed Jan. 12, 1946.

RADI

FOR LOTIONS USED AS SOOTHING APPLICATIONS FOR SKIN IRRITATIONS AND ERUPTIONS, AND LINIMENTS FOR THE ALLEVIATION OF RHEUMATISM FIBROSITIS, SCIATICA, AND KINDRED COMPLAINTS.
Claims use since Jan. 31, 1944.

Ser. No. 494,974. WALTER KALIETA, doing business as Kalieta Manufacturing Co., New Brunswick, N. J. Filed Jan. 18, 1946.



The drawing is lined to represent red and blue. The word "Algesic" is disclaimed apart from the mark.
FOR LINIMENT FOR THE RELIEF OF MUSCULAR DISCOMFORT.
Claims use since Dec. 5, 1945.

Ser. No. 495,531. WESCO PRODUCTS, INC., Buffalo, N. Y. Filed Jan. 26, 1946.

Wez-Glo

No claim is made to the word "Glo" apart from the mark.
FOR COCOANUT OIL SHAMPOO.
Claims use since Jan. 15, 1946.

Ser. No. 496,042. PUNCTUATION PERFUMES, INC., Bridgeport, Conn. Filed Feb. 5, 1946.

PUNCTUATION

The mark consists of the word "Punctuation".
FOR PERFUMES.
Claims use since Jan. 28, 1946.

Ser. No. 496,044. PUNCTUATION PERFUMES, INC., Bridgeport, Conn. Filed Feb. 5, 1946.

"C/O"

The mark consists of the symbol "C/O".
FOR PERFUMES.
Claims use since Jan. 28, 1946.

Ser. No. 496,046. PUNCTUATION PERFUMES, INC., Bridgeport, Conn. Filed Feb. 5, 1946.

"'"

The mark consists of an apostrophe.
FOR PERFUMES.
Claims use since Jan. 28, 1946.

Ser. No. 496,047. PUNCTUATION PERFUMES, INC., Bridgeport, Conn. Filed Feb. 5, 1946.

";"

The mark consists of a semicolon.
FOR PERFUMES.
Claims use since Jan. 28, 1946.

Ser. No. 496,048. PUNCTUATION PERFUMES, INC., Bridgeport, Conn. Filed Feb. 5, 1946.

""""

The mark consists of a representation of quotation marks arranged in the manner shown on the drawing.
FOR PERFUMES.
Claims use since Jan. 28, 1946.

Ser. No. 496,148. PAQUIN, LIMITED, London, England. Filed Feb. 7, 1946.

EVER AFTER

FOR PERFUME, TOILET WATER, SKIN LOTION, EAU VEGETAL, COLD CREAM, FACE POWDER, PERFUMED SACHETS IN POWDER FORM, DUSTING POWDER, TALCUM POWDER, COMPACT POWDER, COMPACT ROUGE, BATH SALTS, BRILLIANTINE, LIPSTICK, AND BANDOLINE.
Claims use since Aug. 11, 1939.

Ser. No. 497,015. MAURICE CHASSE, doing business under the style of Gelex Products Co., Montreal, Quebec, Canada. Filed Feb. 21, 1946.

GELEX

FOR LIQUID COMPOUND FOR DISSOLVING ICE IN AUTOMOBILE GASOLINE TANKS AND CARBURETTORS.
Claims use since September 1941.

Ser. No. 497,269. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Feb. 26, 1946.

ORG-A-WET

No claim is made to the word "Wet" apart from the mark.
FOR ORGANIC WETTING AGENTS.
Claims use since Feb. 11, 1946.

Ser. No. 497,842. BRITE STAR ASSOCIATES, INC., New York, N. Y. Filed Mar. 8, 1946.

DREAMLAND

FOR BABY AND HAND LOTION, PINE BUBBLE BATH, COLOGNE, TOILET WATER, FILLED POWDER MIT, DUSTING POWDER AND ANTISEPTIC OIL.
Claims use since Jan. 2, 1946.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 494,320. JUAN CAYETANO GANDOLFO, Buenos Aires, Argentina. Filed Jan. 5, 1946.

BIROME

FOR WRITING INKS.
Claims use since September 1944.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 490,031. PANTHER OIL & GREASE MFG. CO., Fort Worth, Tex. Filed Oct. 16, 1945.

IN THE SILVER DRUM !

No rights are claimed in a silver colored drum.
FOR SEMI-LIQUID ROOF COATING PRODUCTS FOR ELIMINATING LEAKS IN ROOFS AND PRESERVING ROOFS—NAMELY, ASBESTOS ROOF COATING, PRIMERS—NAMELY, UNDER COATERS AND PLASTIC CEMENT.
Claims use since Aug. 10, 1945.

Ser. No. 491,347. E. E. MCDONALD AND FRANK M. ZIEGLER, Lynwood, Calif. Filed Nov. 9, 1945.

PRECISION CUT



Applicant disclaims the use of the words "Precision Cut", and the representation of the piece of lumber, and disclaims the right to the color red on the end of the lumber, apart from the mark.
FOR LUMBER.
Claims use since August 1940.

Ser. No. 496,581. THEODORE L. SMALLEY, doing business as Smalley Products Co., New London, Conn. Filed Feb. 14, 1946.

EE-ZE-DO

FOR STORM SCREEN WINDOWS AND DOORS.
Claims use since September 1945.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 465,335. BAR-K PRODUCTS COMPANY, Oakland, Calif. Filed Nov. 27, 1943.

BAR-K

No claim is made to the word "Bar" standing alone.
FOR WALL TOWEL RACK.
Claims use since May 1943.

Ser. No. 490,130. NATIONAL ALUMINUM MANUFACTURING CO., Peoria, Ill. Filed Oct. 18, 1945.

INSTANT

FOR ALUMINUMWARE COOKING UTENSILS—NAMELY, PRESSURE SAUCEPANS, KETTLES, WAFFLE MOLDS, COFFEEPOTS, FRYING PANS, CASSEROLES, ROASTERS, GRIDDLES, AND BROILERS.
Claims use since on or about Dec. 1, 1944.

Ser. No. 496,381. HECKETHORN MANUFACTURING & SUPPLY CO., Littleton, Colo. Filed Feb. 11, 1946.

"Lifelawn"

FOR LAWN SPRINKLERS.
Claims use since on or about Jan. 1, 1946.

Ser. No. 496,382. HECKETHORN MANUFACTURING & SUPPLY CO., Littleton, Colo. Filed Feb. 11, 1946.

"Fanlawn"

FOR LAWN SPRINKLERS.
Claims use since on or about Jan. 1, 1946.

Ser. No. 496,383. HECKETHORN MANUFACTURING & SUPPLY CO., Littleton, Colo. Filed Feb. 11, 1946.

"Roselawn"

FOR LAWN SPRINKLERS.
Claims use since on or about Jan. 1, 1946.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 487,993. CONSOLIDATED CIGAR CORPORATION, New York, N. Y. Filed Sept. 5, 1945.

ADLON

FOR CIGARS.
Claims use since Sept. 15, 1907.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 468,730. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname of "Phillips" apart from the mark. The drawing is lined for the colors black and mandarin orange.
FOR BATTERY CABLES, FLASHLIGHTS, AUTOMOBILE FUSES, STORAGE BATTERIES, AND SPARK PLUGS.
Claims use since March 1933 on storage batteries; and April 1938 on the remaining goods.

Ser. No. 480,283. ERCO RADIO LABORATORIES, INC., Hempstead, N. Y. Filed Feb. 27, 1945.

ERCO

FOR RADIO EQUIPMENT—NAMELY, TRANSMITTERS, EXCITERS, RECEIVERS, AMPLIFIERS, ANTENNAS, AUDIO AMPLIFIERS, AND AUDIO OSCILLATORS.
Claims use since November 1936.

Ser. No. 482,826. WHITING CORPORATION, Harvey, Ill. Filed Apr. 30, 1945.

Hydro-Arc

No claim is made to the word "Arc" apart from the mark as shown.
FOR ELECTRIC ARC FURNACES.
Claims use since Oct. 21, 1940.

Ser. No. 487,565. NATIONAL TRADING COMPANY, INC., Hickory, N. C. Filed Aug. 25, 1945.

ATOMIC

FOR RADIO RECEIVING SETS.
Claims use since Aug. 3, 1945.

Ser. No. 487,758. AUTOMATIC PUMP & SOFTENER CORPORATION, Rockford, Ill. Filed Aug. 30, 1945.

ELECTROZONE

FOR ELECTRIC OZONE GENERATORS AND APPARATUS FOR TREATING FLUIDS WITH OZONE.
Claims use since Feb. 21, 1920.

Ser. No. 491,773. PYRAMID ELECTRIC COMPANY, Jersey City, N. J. Filed Nov. 17, 1945.

PYRAMID

FOR ELECTRICAL CAPACITORS.
Claims use since Dec. 1, 1944.

Ser. No. 493,193. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J. Filed Dec. 13, 1945.

IRV-O-FLATSEME

No claim is made to the word "Flatseme" apart from the mark.
FOR YELLOW VARNISHED CAMBRIC TAPE, USED FOR ELECTRICAL INSULATION PURPOSES.
Claims use since Nov. 27, 1945.

Ser. No. 494,209. BROWN, BOVERI & CIE., Baden, Switzerland. Filed Jan. 3, 1946.

TURBATOR

FOR HIGH VACUUM ELECTRONIC TUBES.
Claims use since 1941.

Ser. No. 494,210. BROWN, BOVERI & CIE., Baden, Switzerland. Filed Jan. 3, 1946.

TRANSATOR

FOR HIGH VACUUM ELECTRONIC TUBES.
Claims use since 1941.

Ser. No. 494,465. SPECIAL PRODUCTS COMPANY, Silver Spring, Md. Filed Jan. 8, 1946.

SPECIAL PRODUCTS COMPANY
speco
SILVER SPRING, MARYLAND

The words "Special Products Company" and "Silver Spring, Maryland" are disclaimed apart from the mark.
FOR ELECTRICAL CONDENSERS AND MICROPHONE STANDS.
Claims use since Oct. 4, 1945.

Ser. No. 496,169. THE SILEX COMPANY, Hartford, Conn. Filed Feb. 7, 1946.

duolectric

FOR ELECTRIC PRESSING IRONS AND ELECTRIC COMBINATION STEAMING AND PRESSING IRONS.
Claims use since August 1945.

Ser. No. 496,313. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Feb. 9, 1946.

EXTENDO

FOR EXTENSIBLE ELECTRICAL CORDS.
Claims use since Nov. 26, 1945.

Ser. No. 496,316. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Feb. 9, 1946.

AUTOFLEX

FOR EXTENSIBLE ELECTRICAL CORDS.
Claims use since Dec. 20, 1945.

CLASS 23

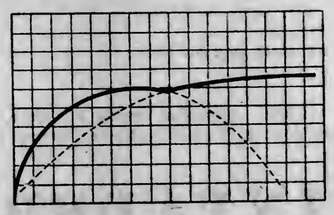
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 476,658. BUCKEYE LABORATORIES CORPORATION, Cleveland, Ohio. Filed Nov. 20, 1944.

HYDRA-VOLUTER

FOR UNITARY APPARATUS COMBINING ELECTRIC MOTORS, PUMPS, PIPING, VALVES, SPRAY CHAMBERS, ETC., FOR USE IN THE PROCESSING, RECONDITIONING, DEGASIFICATION OR DEHYDRATION OF LUBRICATING OILS, TRANSFORMER OILS, OR OTHER OILS AND OF POTABLE LIQUIDS, AND FOR USE IN THE SEPARATION OF CONSTITUENTS HAVING DIFFERENT BOILING POINTS WITHIN A CONGLOMERATION OF LIQUIDS WHEREBY A PORTION OF CONSTITUENTS MAY BE VOLATILIZED AND REMOVED FROM THE REMAINING CONSTITUENTS.
Claims use since Nov. 20, 1932.

Ser. No. 478,811. FULLER MANUFACTURING CO., Kalamazoo, Mich. Filed Jan. 20, 1945.



FOR COMBINATION HYDRAULIC TORQUE CONVERTERS AND FLUID COUPLINGS.
Claims use since Aug. 19, 1944.

Ser. No. 482,191. AIRCRAFT MACHINERY CORPORATION, Burbank, Calif. Filed Apr. 16, 1945.

ARMOR

FOR METAL WORKING MACHINERY AND PARTS THEREOF—NAMELY, MILLING MACHINES, LATHES, COLLET CHUCKS, SURFACE GRINDERS, SHAPERS, VISES, ARBORS, DIVIDING HEADS, VERTICAL ATTACHMENTS, ROTARY TABLES, HEAT EXCHANGERS FOR USE IN CONJUNCTION WITH METAL WORKING MACHINERY, AND HYDRAULICALLY OPERATED POWER UNITS FOR USE WITH METAL WORKING MACHINERY.
Claims use since Dec. 1, 1940.

Ser. No. 482,457. BLACKHAWK MFG. CO., Milwaukee, Wis. Filed Apr. 23, 1945.

BLACKHAWK

FOR SOCKET WRENCHES; BOX WRENCHES; OPEN END WRENCHES; RATCHET WRENCHES; SCREW DRIVING WRENCHES; TORQUE INDICATING WRENCHES; TIRE RIM WRENCHES; UNIVERSAL JOINT WRENCHES; PLIERS; HYDRAULIC JACKS; HYDRAULIC RAMS; HYDRAULIC PUMPS; SWIVEL JOINTS; PORTABLE SERVICE JACKS; HYDRAULIC LIFTS; METAL STRAIGHTENING, BENDING, CLAMPING AND SPREADING MECHANISMS AND TOOLS; PIPE, TUBE AND ROD BENDERS; SPREADING WEDGES; REMOTE CONTROL APPARATUS FOR HYDRAULIC PRESSURE APPLYING UNITS; WHEEL PULLERS; MACHINE ELEMENT PULLERS AND PUSHERS FOR REMOVING AND INSERTING PARTS; TOOL RACKS; METAL WORKING SAWS, SHEARS, DRILLS AND HAMMERS; METAL DRESSING FILES, SANDING, ABRADING, GRINDING AND BUFFING TOOLS; DRIVING MECHANISMS FOR PORTABLE HYDRAULICALLY ACTUATED TOOLS; AND DRIVING MECHANISMS FOR PORTABLE MECHANICALLY ACTUATED ROTARY, RECIPROCATORY AND OSCILLATORY TOOLS.
Claims use since May 31, 1919.

Ser. No. 482,962. AMERICAN CHAIN & CABLE COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed May 4, 1945.

INVADER

FOR LAWN MOWERS.
Claims use since 1933.

Ser. No. 482,965. AMERICAN CHAIN & CABLE COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed May 4, 1945.

PENNALITE

FOR LAWN MOWERS.
Claims use since 1933.

Ser. No. 485,298. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J. Filed June 30, 1945.

K

FOR FIXED FIRE DETECTING AND EXTINGUISHING APPARATUS COMPRISING A SET OF CONDUITS LEADING FROM PROTECTED COMPARTMENTS OR SPACES TO A CENTRALLY LOCATED TERMINAL CABINET, A FAN FOR DRAWING SMOKE FROM FIRE IN ANY OF THE COMPARTMENTS OR SPACES, AN ELECTRIC EYE FOR DETECTING SMOKE IN THE CABINET AND FOR GIVING AN ALARM, AN INDICATOR FOR INDICATING THE LOCATION OF THE COMPARTMENT OR SPACE FROM WHICH THE SMOKE IS DRAWN, VALVES FOR RELEASING FIRE EXTINGUISHING MEDIUM THROUGH THE SAME CONDUIT FOR EXTINGUISHMENT OF THE FIRE, THE ENTIRE APPARATUS SOLD AS A UNIT.
Claims use since on or about Sept. 1, 1943.

Ser. No. 485,791. EDWARD P. O'HALLORAN, doing business as Holleran Metal Products, Detroit, Mich. Filed July 13, 1945.

SILENT

Applicant disclaims the representation of the label shown in the drawing of the mark. The word "Silent" is disclaimed apart from the mark as shown.
FOR DISHWASHING MACHINE.
Claims use since Sept. 7, 1944.

Ser. No. 489,139. NATIONAL LEAD COMPANY, New York, N. Y. Filed Sept. 28, 1945.

SATCO

FOR JOURNAL BEARINGS.
Claims use since Dec. 1, 1929.

Ser. No. 494,121. RADIO CHEF, INC., Chicago, Ill. Filed Dec. 29, 1945.

RADIO CHEF

FOR ELECTRIC HIGH FREQUENCY INDUCTION VENDING MACHINE FOR COOKING AND DISPENSING OF FOODS.
Claims use since Nov. 6, 1945.

Ser. No. 495,152. PRECISION PARTS COMPANY, Ann Arbor, Mich. Filed Jan. 21, 1946.

ECONOMY

The mark consists of the word "Economy".
FOR BALING PRESSES.
Claims use since Dec. 1, 1910.

Ser. No. 495,783. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Feb. 1, 1946.

CORUX

FOR RAZOR BLADES.
Claims use since Jan. 11, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 468,726. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.

Phillips 66

No claim is made to the surname of "Phillips" apart from the mark as shown. The drawing is lined to indicate the colors black and mandarin orange.
FOR SUN GLASSES.
Claims use since on or about April 1938.

Ser. No. 485,291. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.

K

FOR SUBMERSION ACTUATORS FOR ACTUATING VALVES FOR THE RELEASE OF GAS UNDER PRESSURE FROM CONTAINERS TO INFLATE BAGS WHICH FORM BUOYANT FLOATS FOR SUPPORTING DISABLED AIRCRAFT, SUCH DEVICES INCLUDING A CASING HAVING AN EXPANSIBLE MEDIUM WHICH IS EXPANDED WHEN THE CASING IS BROUGHT INTO CONTACT WITH A LIQUID, WHEREBY TO GENERATE PRESSURE TO ACTUATE THE RELEASE VALVES, ALSO ACTUATORS COMPRISING ELECTRODES WHICH UPON CONTACT WITH WATER COMPLETES AN ELECTRIC ACTUATING CIRCUIT TO OPERATE ELECTRICALLY RELEASABLE VALVES, HEAT RESPONSIVE APPARATUS—NAMELY, FIXED TEMPERATURE THERMOSTATS; FUSIBLE LINK DETECTORS; AND RATE-OF-TEMPERATURE-RISE DETECTORS COMPRISING A SMALL METAL AIR CHAMBER, THE AIR IN WHICH EXPANDS UPON A SUDDEN CHANGE IN TEMPERATURE; EACH OF THESE DEVICES BEING CONNECTED TO RELEASE MECHANISM, WHEREBY UPON ACTUATION OF THE DEVICE, THE RELEASE MECHANISM IS OPERATED TO RELEASE A FIRE EXTINGUISHING MEDIUM, AND AUTOMATIC WEIGHT INDICATORS AND SCALES.
Claims use since on or about Dec. 1, 1940, on automatic weight indicators and scales; since on or about Sept. 1, 1941, on submersion actuators; and since on or about Oct. 15, 1942, on heat responsive devices.

Ser. No. 494,418. ADEL PRECISION PRODUCTS CORP., Burbank, Calif. Filed Jan. 8, 1946.

SURGISCOPE

FOR MEDICO-SURGICAL CAMERAS, PARTS THEREOF AND ACCESSORIES THEREFOR.
Claims use since Oct. 4 1944.

Ser. No. 494,783. COMPTONE COMPANY, New York, N. Y. Filed Jan. 15, 1946.

BEAU • PEEPS

FOR SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES.
Claims use since June 1, 1945.

Ser. No. 494,784. COMPTONE COMPANY, New York, N. Y. Filed Jan. 15, 1946.

BO • PEEPS

FOR SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES.
Claims use since June 1, 1945.

Ser. No. 494,785. COMPTONE COMPANY, New York, N. Y. Filed Jan. 15, 1946.

SUN-PEEPS

The word "Sun" is disclaimed when used apart from the mark as shown in the drawing.
FOR SUNGLASSES, EYEGLASSES, SPECTACLES, AND PARTS THEREOF, INCLUDING LENSES.
Claims use since June 1, 1945.

Ser. No. 495,004. AMERICAN SPECTACLE CO., INC., New York, N. Y. Filed Jan. 19, 1946.

BEAU PEEP

FOR SUNGLASSES.
Claims use since Dec. 21, 1945.

Ser. No. 495,005. AMERICAN SPECTACLE CO., INC., New York, N. Y. Filed Jan. 19, 1946.

BOW PEEP

FOR SUNGLASSES.
Claims use since Dec. 21, 1945.

Ser. No. 496,304. THE EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed Feb. 9, 1946.

Medalist

FOR PHOTOGRAPHIC CAMERAS.
Claims use since July 1, 1941.

CLASS 31

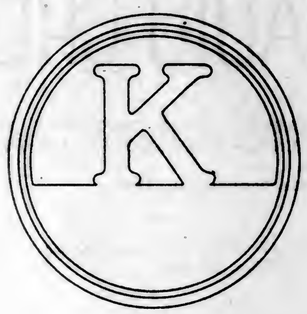
FILTERS AND REFRIGERATORS

Ser. No. 468,734. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname of "Phillips" apart from the mark. The drawing is lined for the colors black and mandarin orange.
FOR OIL FILTER CARTRIDGES.
Claims use since April 1938.

Ser. No. 485,298. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J. Filed June 30, 1945.



FOR POROSITY FILTERS AND STRAINERS FOR USE IN SEPARATING WATER FROM GAS IN OXYGEN COMPRESSORS.
Claims use since Jan. 15, 1943.

Ser. No. 490,523. C. BLUM, doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Norwood, Ohio. Filed Oct. 26, 1945.

TRAKADOR

FOR AUXILIARY CLOSURES TO SEAL THE SPACE ABOUT A CARRIAGE RAIL ENTERING A REFRIGERATOR.
Claims use since July 31, 1945.

Ser. No. 494,114. CHAS. PENACHIO, doing business as Economy Freezer Supply Company, Cos Cob, Conn. Filed Dec. 29, 1945.



FOR ELECTRICAL APPLIANCES—NAMELY, FREEZERS AND REFRIGERATORS.
Claims use since Jan. 8, 1945.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 478,128. KANGAROO, Columbus, Ohio. Filed Jan. 1, 1945.



No claim is made to the word "Quality" nor the name or term "Columbus, Ohio", apart from the mark.
FOR SERVING TRAYS OF PRESSED PLYWOODS, FIBERBOARDS OR SIMILAR COMPOSITIONS, JUVENILE OR CHILD'S FURNITURE—NAMELY, CHAIRS, TABLES, CHESTS, BEDS, AND LAP BOARDS FOR USE AS WRITING TABLES AND BOOK AND MAGAZINE SUPPORTS.
Claims use since Nov. 1, 1944.

Ser. No. 498,059. THE GENERAL FIREPROOFING CO., Youngstown, Ohio. Filed Mar. 12, 1946.

TELEFACTS

FOR FILING CABINETS FOR STORING LETTERS FILES, AND OTHER REFERENCE PAPERS.
Claims use since July 27, 1938.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 481,679. B. I. J. STAMM, doing business as Kresno-Stamm Mfg. Co., New York, N. Y. Filed Apr. 3, 1945.

PERCO-FLASH

FOR OIL AND GAS HOT WATER HEATERS AND BOILERS FOR USE IN STEAM HEATING SYSTEMS.
Claims use since Aug. 1, 1944.

Ser. No. 482,432. MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Apr. 21, 1945.

ZENITH

FOR COAL STOKERS.
Claims use since Mar. 21, 1945.

Ser. No. 495,518. ANDREW P. SOWA, Waterbury, Conn. Filed Jan. 26, 1946.

SOWASON

FOR PYROPHORIC CIGAR AND CIGARETTE LIGHTERS.
Claims use since Dec. 15, 1945.

Ser. No. 496,743. ERWIN J. WEGGEL, doing business as General Engineering Co., Bay City, Mich. Filed Feb 16, 1946.

Dryola

FOR INCINERATORS.
Claims use since Dec. 17, 1945.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 496,350. SUN OIL COMPANY, Philadelphia, Pa. Filed Feb. 9, 1946.

SUNOCO

FOR PNEUMATIC TIRE AND INNER TUBE REPAIR KITS.
Claims use since June 12, 1944.

CLASS 37

PAPER AND STATIONERY

Ser. No. 481,833. BROOKS BANK NOTE COMPANY, Springfield, Mass. Filed Apr. 7, 1945.

LITHOSHEEN

FOR CARDBOARD, BOXBOARD, AND PRINTING PAPER.
Claims use since Jan. 31, 1944.

Ser. No. 489,646. BOL. LTD., New York, N. Y. Filed Oct. 9, 1945.

INJEX

FOR FOUNTAIN PENS AND FILLERS FOR FILLING LIQUID INK INTO FOUNTAIN PENS.
Claims use since Aug. 15, 1945.

Ser. No. 491,588. RELIABLE PAPER COMPANY, Chicago, Ill. Filed Nov. 14, 1945.

MASK-O-LITH

No claim is made to the use of the word "Mask" apart from the mark.
FOR PHOTO MASKING PAPER.
Claims use since Sept. 28, 1945.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 485,076. DISTRIBUTION AND WAREHOUSING PUBLICATIONS INC., New York, N. Y. Filed June 27, 1945.

DISTRIBUTION AGE

FOR A TRADE MAGAZINE.
Claims use since June 7, 1945.

Ser. No. 495,838. THE SOBAL PUBLISHING CO. INC., New York, N. Y. Filed Feb. 1, 1946.

APPLAUSE

FOR MAGAZINES.
Claims use since Jan. 10, 1946.

Ser. No. 496,023. ELLEN PHYLLIS FLEMING, New York, N. Y. Filed Feb. 5, 1946.

HOPEFUL HEPSIE

FOR A MAGAZINE COLUMN PUBLISHED FROM TIME TO TIME.
Claims use since Oct. 28, 1945.

Ser. No. 496,065. AVON-FASCINATION COMPANY, New York, N. Y. Filed Feb. 6, 1946.

Fascination

FOR A MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Jan. 25, 1946.

Ser. No. 496,599. BANTAM BOOKS, INC., New York, N. Y. Filed Feb. 15, 1946.

BANTAM BOOKS

FOR PRINTED BOOKS.
Claims use since Nov. 19, 1945.

CLASS 39
CLOTHING

Ser. No. 483,958. CALIFORNIA MANUFACTURING COMPANY, St. Louis, Mo. Filed May 30, 1945.

Cal-Craft SPORTSWEAR

The abbreviation "Cal" and the term "Sportswear" are disclaimed apart from the mark. The drawing is lined for the color orange.
FOR SPORTSWEAR—NAMELY, JUVENILE, BOYS', MEN'S CLOTH JACKETS AND COATS, LEATHER TRIMMED JACKETS AND COATS, LEATHER JACKETS AND COATS, RAINCOATS, SHIRTS, AND TROUSERS.
Claims use since June 1, 1944.

Ser. No. 492,934. MEADTEX FABRICS CO., New York, N. Y. Filed Dec. 8, 1945. Under the act of February 20, 1905, as amended June 10, 1938.

A SNOWMASTER FABRIC

Applicant disclaims the right to the use of the word "Fabric".
FOR LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES.
Claims use since Nov. 1, 1944.

Ser. No. 494,207. BORGENICHT & BELZ, Chicago, Ill. Filed Jan. 3, 1946.

Chubbyteens

The picture of the child is purely fanciful.
FOR SKIRTS, BLOUSES, SLACKS, JERKIN SUITS, JUMPERS, AND JACKETS FOR JUVENILE GIRLS.
Claims use since October 1945.

Ser. No. 495,128. BEE-BEE FROCKS, INC., Kansas City, Mo. Filed Jan. 21, 1946.

Bee-Bee

FOR CHILDREN'S GARMENTS IN THE NATURE OF PINAFORES, DRESSES, AND SUN SUITS.
Claims use since Feb. 7, 1945.

Ser. No. 495,478. INFANTA KNITTING MILLS, Philadelphia, Pa. Filed Jan. 26, 1946.

"HI KIDS"

Applicant disclaims the word "Kids" apart from the mark.
FOR CHILDREN'S KNITTED SWEATERS AND JACKETS.
Claims use since Dec. 15, 1945.

Ser. No. 495,501. PRINCESS PEGGY, INC., Peoria, Ill. Filed Jan. 26, 1946.

Princess Peggy XXX

The picture is purely fanciful.
FOR READY-TO-WEAR COTTON DRESSES FOR THE USE OF WOMEN, MISSES, AND GIRLS.
Claims use since 1927 on the mark "Princess Peggy"; and since Mar. 1, 1943, on the composite mark.

Ser. No. 496,094. HERMAN M. MCDONALD, Chicago, Ill. Filed Feb. 6, 1946.

Huba - Huba

FOR UNDERWEAR AND SWEATERS FOR USE BY MEN, WOMEN, BOYS, AND GIRLS.
Claims use since Jan. 28, 1946.

Ser. No. 496,967. JODKINS, INC., New York, N. Y. Filed Feb. 20, 1946.

Jodkins

FOR CHILDREN'S JODHPURS, JACKETS, VESTS, SHIRTS, FRONTIER PANTS, AND OVERALLS.
Claims use since May 1, 1944.

Ser. No. 497,553. SALLY MASON, New York, N. Y. Filed Mar. 2, 1946.

SWEET TOOTH

FOR CHILDREN'S AND MISSES' BLOUSES, DRESSES, JUMPERS, PINAFORES AND SLACKS.
Claims use since Mar. 20, 1945.

CLASS 42
KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 468,334. AIRPAK LIMITED, London, England. Filed Mar. 16, 1944.

TROPALINE

FOR QUILTING IN THE PIECE CONSISTING OF AN INTERLINING COMBINED WITH A FACING CLOTH OF WOOL, COTTON, SILK, RAYON, OR NYLON, OR OF VARIOUS MIXTURES THEREOF, TO BE USED PRINCIPALLY FOR LINING GARMENTS AND COVERLETS.
Claims use since January 1944.

Ser. No. 480,217. THE YARDSTICK, INC., New York, N. Y. Filed Feb. 24, 1945.

THE YARDSTICK

FOR PIECE GOODS OF COTTON, RAYON, WOOL, AND MIXTURES OF SAME.
Claims use since June 1944.

Ser. No. 483,387. MAX SCHWARZ, New York, N. Y. Filed May 15, 1945.



"Tommy Tucker" is the name of a character in a familiar nursery rhyme.
FOR COTTON PIECE GOODS.
Claims use since Mar. 15, 1923.

Ser. No. 484,801. PROTECTIVE COATINGS CORPORATION, Belleville, N. J. Filed June 20, 1945.

M-V-BAR

FOR WATER IMPERVIOUS TEXTILE FABRICS SOLD BY THE PIECE, YARD, OR BOLT AND MADE OF COTTON, RAYON, SILK, WOOL, NYLON, GLASS, PROTEIN AND CELLULOSE DERIVATIVE FILAMENTS.
Claims use since May 1, 1945.

Ser. No. 485,854. ASHER & BORETZ, INC., New York, N. Y. Filed July 16, 1945.

VYLOID

FOR WOVEN COTTON FABRICS IN THE GREIGE, BLEACHED OR DYED AND COATED WITH A VINYL PLASTIC COATING AND EMBOSSED IN DIFFERENT PATTERNS.
Claims use since Mar. 1, 1944.

Ser. No. 487,806. SEAGLOW FABRICS CORP., New York, N. Y. Filed Aug. 30, 1945.

Seaglow SUCCESS FABRIC

Without waiving any common-law rights, no claim is made to the exclusive use of the word "Fabric" except in the setting and relation in which it appears in the drawing.
FOR COTTON AND RAYON FABRICS IN THE PIECE.
Claims use since June 1944.

Ser. No. 489,519. LINCOLN FABRICS CO., New York, N. Y. Filed Oct. 6, 1945.

GRAND SLAM

FOR RAYON PIECE GOODS.
Claims use since August 1945.

Ser. No. 492,395. QUAKER MAID MILLS, Philadelphia, Pa. Filed Nov. 29, 1945.

"THE RUG THAT HAS THE FLOOR"

Without waiving any of its common-law rights thereto, applicant disclaims the words "Rug" and "Floor" apart from the mark as shown.
FOR KNITTED RUGS.
Claims use since Oct. 15, 1945.

Ser. No. 495,220. DUPLEX FABRICS CORPORATION, New York, N. Y. Filed Jan. 23, 1946.

PINCH BOTTLE

FOR RAYON PIECE GOODS.
Claims use since Jan. 5, 1940.

Ser. No. 496,123. BARTMANN & BIXER, INC., New York, N. Y. Filed Feb. 7, 1946.

BEE HIVE

FOR WINDOW CURTAINS.
Claims use since Oct. 26, 1936.

Ser. No. 496,124. BARTMANN & BIXER, INC., New York, N. Y. Filed Feb. 7, 1946.

MILKY WAY

FOR WINDOW CURTAINS.
Claims use since Oct. 5, 1936.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 468,647. ELIZABETH VILLARREAL, Chicago, Ill. Filed Mar. 24, 1944.

RAF-TON-PEP

The applicant does hereby disclaim the word "Pep" from said trade-mark as shown on accompanying drawing.
FOR NONALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK.
Claims use since Feb. 1, 1944.

Ser. No. 486,610. DR. SWETT'S ROOT BEER CO., INC., New York, N. Y. Filed Aug. 2, 1945. Under 10-year proviso as to "Dr. Swett's".

Dr. Swett's

The portrait shown on the drawing is fanciful.
FOR ROOT BEER.
Claims use since in or about 1845 on name "Dr. Swetts"; and since June 6, 1945, on mark as shown.

Ser. No. 487,818. B-1 SEITZLER SODA WATER COMPANY, Kansas City, Mo. Filed Aug. 31, 1945.



The lining on the drawing indicates red with the closer spaced lines indicating red of greater intensity than the other more widely spaced lines where the color varies with shading intensity towards a tint.
FOR NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since August 1943.

Ser. No. 492,762. CONCORDADE COMPANY, INC., Providence, R. I. Filed Dec. 6, 1945.

Vitalife

FOR NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING SAME.
Claims use since May 4, 1943.

Ser. No. 497,480. WHITE ROCK CORPORATION, New York, N. Y. Filed Feb. 28, 1946. Under 10-year proviso.



White Rock

FOR SPARKLING WATER AND OTHER NONALCOHOLIC, MALTLESS, CARBONATED, AND NON-CARBONATED BEVERAGES.
Claims use since October 1893.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 486,568. E & L FRUIT & PRODUCE DISTRIBUTORS, Los Angeles, Calif. Filed Aug. 1, 1945.

COAST PRIDE

FOR FRESH VEGETABLES, FRESH CITRUS FRUITS, AND FRESH DECIDUOUS FRUITS.
Claims use since June 9, 1945.

Ser. No. 487,165. E. J. BRACH & SONS, Chicago, Ill. Filed Aug. 17, 1945.

HITCH-HIKE

FOR CANDY.
Claims use since July 23, 1945.

Ser. No. 489,561. CANOGA CITRUS ASSOCIATION, Canoga Park, Calif. Filed Oct. 8, 1945.



No claim is made to the name "Canoga Citrus Assn." apart from the mark. The picture of the man is fanciful.
FOR FRESH CITRUS FRUITS.
Claims use since June 22, 1945.

Ser. No. 489,876. FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Oct. 12, 1945.

Premier



SAUCE ARTURO

The applicant is the owner of registrations 124,110, 299,170, and 403,402. The word "Sauce" is disclaimed apart from the mark. The three human figures appearing in the mark is entirely fanciful.

FOR SAUCE FOR MEAT PRODUCTS.

Claims use since June 1, 1945.

Ser. No. 490,350. ALLIED FOODS, Los Angeles, Calif. Filed Oct. 23, 1945.

GABBY CABBY

FOR WEINERS AND SAUERKRAUT, BARBECUE SPARERIBS AND SAUERKRAUT, AND SPARERIBS AND SAUERKRAUT IN GLASS AND TIN.

Claims use since Oct. 8, 1945.

Ser. No. 494,182. GOOCH FOOD PRODUCTS COMPANY, Lincoln, Nebr. Filed Jan. 2, 1946.

ATOMIC

FOR POPCORN IN ITS NATURAL STATE.

Claims use since Dec. 3, 1945.

Ser. No. 494,803. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Jan. 25, 1946.



The applicant is the present owner of U. S. registration No. 354,003. The applicant disclaims the representation of the vegetables apart from the mark as shown.

FOR CANNED MIXED VEGETABLE JUICES WHICH MAY BE SERVED COLD OR USED AS A SOUP PREPARATION.

Claims use on the trade-mark as a whole since July 25, 1938; and on the portion of the mark made up of the combination of the letter "V" and the figure "8" separated by a hyphen since July 17, 1937.

Ser. No. 498,527. THE WILLIAM KELLY MILLING CO., Hutchinson, Kans. Filed Mar. 19, 1946.

CRAFTSMAN

FOR WHEAT FLOUR.

Claims use since Oct. 11, 1920.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 494,203. ROUYER GUILLET & COMPANY LIMITED, London, England. Filed Jan. 2, 1946.



FOR BRANDY.

Claims use since June 16, 1944.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 485,421. RHODES PLASTIC PRODUCTS, INC., New York, N. Y. Filed July 3, 1945.

"GLAMOUR"

FOR GARMENT HANGERS MADE OF PLASTICS.

Claims use since May 31, 1945.

Ser. No. 493,164. L. E. CARPENTER & CO., INC., Newark, N. J. Filed Dec. 13, 1945.

VINYLTEX

FOR RESINOUS COATED FABRICS IN THE NATURE OF ARTIFICIAL LEATHER.

Claims use since Nov. 29, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 23, 1946

422,393. STREET BRUSHES AND BROOMS. OX FIBRE BRUSH COMPANY, INC., New York, N. Y.
Filed June 20, 1939. Serial No. 420,726. PUBLISHED APRIL 16, 1946. Class 29.

422,394. STENCIL PAPER, LEDGER PAPER, WRITING PAPER, LETTERHEADS, AND WRAPPING PAPER. MANUEL VALLADARES, New York, N. Y.
Filed April 19, 1944. Serial No. 469,479. PUBLISHED APRIL 30, 1946. Class 37.

422,395. FISHING LINES. SUNSET LINE & TWINE CO., San Francisco, Calif.
Filed May 27, 1944. Serial No. 470,747. PUBLISHED APRIL 30, 1946. Class 22.

422,396. PORTABLE ENGINE DRIVEN ELECTRIC LIGHT AND POWER UNITS. DAVEY COMPRESSOR COMPANY, Kent, Ohio.
Filed July 8, 1944. Serial No. 471,999. PUBLISHED APRIL 30, 1946. Class 21.

422,397. CHOCOLATE-COVERED ALMONDS, RAISINS, AND MINTS. CHASERS, INC., doing business under the name The Ohio Confection Company, New York, N. Y., assignor to The Ohio Confection Company, Cleveland, Ohio, a corporation of Ohio.
Filed July 10, 1944. Serial No. 472,039. PUBLISHED SEPTEMBER 11, 1945. Class 46.

422,398. FRESH CITRUS FRUITS. J. M. INGRAM FRUIT CORPORATION, Tampa, Fla.
Filed September 16, 1944. Serial No. 474,282. PUBLISHED OCTOBER 31, 1944. Class 46.

422,399. FRESH FRUITS AND VEGETABLES. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed October 12, 1944. Serial No. 475,255. PUBLISHED APRIL 2, 1946. Class 46.

422,400. SLIDE RULES. KEUFFEL & ESSER COMPANY, Hoboken, N. J.
Filed November 10, 1944. Serial No. 476,332. PUBLISHED APRIL 30, 1946. Class 26.

422,401. GENERATOR TEST BENCHES, GENERATOR TEST LATHES, METAL LATHES, MILLING CUTTERS, AS FOR EXAMPLE CUTTERS SUITABLE FOR UNDERCUTTING COMMUTATOR MICA, ETC. PHILLIP J. PARKER, Chicago, Ill.
Filed November 16, 1944. Serial No. 476,524. PUBLISHED APRIL 23, 1946. Class 23.

422,402. CHOCOLATE-COVERED ALMONDS, CHOCOLATE-COVERED RAISINS, AND CANDY. THE OHIO CONFECTION COMPANY, Cleveland, Ohio.
Filed January 15, 1945. Serial No. 478,641. PUBLISHED MARCH 20, 1945. Class 46.

422,403. WORK DRESSES AND WORK UNIFORMS. JOY HOLDER, New York, N. Y.
Filed January 16, 1945. Serial No. 478,685. PUBLISHED APRIL 30, 1946. Class 39.

422,404. FRESH VEGETABLES—NAMELY, ENDIVES, CELERY, CABBAGE, CARROTS, AND LETTUCE. LESTER V. ANTLE, doing business as Bud Antle Co., Watsonville, Calif.
Filed February 10, 1945. Serial No. 479,656. PUBLISHED APRIL 30, 1946. Class 46.

422,405. RAISINS. IRVING PODOLSKY, doing business as Lincoln Sales Co., Chicago, Ill.
Filed February 12, 1945. Serial No. 479,726. PUBLISHED APRIL 30, 1946. Class 46.

422,406. ROLLER GRAVITY, WHEEL GRAVITY, BELT, CHAIN, SLAT, AND TROLLEY-CONVEYORS. HARRY J. FERGUSON, Jenkintown, Pa.
Filed March 12, 1945. Serial No. 480,819. PUBLISHED APRIL 30, 1946. Class 23.

422,407. GAS TUBES WHEREIN ELECTRODES ARE MOUNTED IN AN ENVELOPE CONTAINING GASEOUS ATMOSPHERE—NAMELY, MERCURY VAPOR RECTIFIERS AND THE LIKE. EITEL-MCCULLOUGH, INC., San Bruno, Calif.
Filed March 13, 1945. Serial No. 480,858. PUBLISHED APRIL 23, 1946. Class 21.

422,408. ELECTRIC WATER HEATERS AND ACCESSORIES THEREFOR. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed March 26, 1945. Serial No. 481,314. PUBLISHED APRIL 23, 1946. Class 21.

422,409. SPOKES AND NIPPLES FOR VEHICLE WHEELS HAVING WIRE SPOKES. THE NATIONAL SCREW & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed March 26, 1945. Serial No. 481,335. PUBLISHED APRIL 16, 1946. Class 19.

422,410. CIGARETTE CASES, CIGARETTE RECEPTACLES AND CIGAR RECEPTACLES IN THE NATURE OF NOVELTY CASES, CIGARETTE HOLDERS, COMBINED CIGARETTE HOLDERS AND ASH TRAYS, COMBINED CIGARETTE HOLDERS, HUMIDORS AND LIGHTERS, HUMIDORS, ASH TRAYS, AND SMOKING TRAYS, ALL MADE OF BASE METAL, IN WHOLE OR IN PART, OR OF PLASTIC MATERIAL. ILLINOIS WATCH CASE CO., doing business as Elgin American Division of Illinois Watch Case Co.. Elgin, Ill.
Filed April 7, 1945. Serial No. 481,844. PUBLISHED APRIL 30, 1946. Class 8.

422,411. COSMETIC CREAM JARS, PERFUME BOTTLES, AND PERFUME VIALS, MADE OF GLASS. ILLINOIS WATCH CASE CO., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill.
Filed April 7, 1945. Serial No. 481,846. PUBLISHED APRIL 30, 1946. Class 33.

422,412. AGRICULTURAL AND INDUSTRIAL MACHINERY—NAMELY, FEED GRINDERS AND ACCESSORIES, ENSILAGE CUTTERS, ETC. DAVIS-WESTHOLT MANUFACTURING, INCORPORATED, Wichita, Kans.
Filed April 16, 1945. Serial No. 482,196. PUBLISHED APRIL 30, 1946. Class 23.

422,413. ILLUSTRATED MAGAZINE CONTAINING FACTUAL ARTICLES RELATING TO TELEVISION. BILBARA PUBLISHING COMPANY INC., New York, N. Y.
Filed May 1, 1945. Serial No. 482,830. PUBLISHED OCTOBER 16, 1945. Class 38.

422,414. PUBLICATION ISSUED PERIODICALLY THE SUBJECT MATTER OF WHICH RELATES TO TELECOMMUNICATIONS TECHNOLOGY, ELECTRONIC TELEVISION, BROADCASTING, RADAR AND AVIATION RADIO, AND SIMILAR SUBJECTS. V. BRUSH, Englewood, N. J.
Filed May 3, 1945. Serial No. 482,918. PUBLISHED SEPTEMBER 25, 1945. Class 38.

422,415. OIL, GASOLINE AND GAS BURNING COOKING AND HEATING STOVES; LIQUID FUEL BURNING LANTERNS; LIQUID FUEL BURNING WATER HEATERS; GASOLINE AND KEROSENE BURNING LAMPS OF THE PRESSURE TYPE, NON-PRESSURE TYPE, AND WICK AND MANTLE TYPES; INCANDESCENT MANTLES, GLASS LANTERN GLOBES, BLOW TORCHES, AND SOLDERERS' FURNACES. COLOSO LIMITED, Ridgefield, N. J.
Filed May 11, 1945. Serial No. 483,214. PUBLISHED APRIL 30, 1946. Class 34.

422,416. JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES. CHINA OVERSEAS, New York, N. Y.
Filed May 18, 1945. Serial No. 483,513. PUBLISHED APRIL 16, 1946. Class 28.

422,417. CONCRETE TESTING CORE CUTTING MACHINES, CONCRETE SAWS, CONCRETE DRILLS, EXPLORATION DRILLS, SOIL AUGERS, AND DOUBLE DRUM HOISTS. FRANK L. HOWARD, doing business as Frank L. Howard Engineering Company, Los Angeles, Calif.
Filed May 21, 1945. Serial No. 483,622. PUBLISHED APRIL 30, 1946. Class 23.

422,418. WELDING TIP CLEANERS. MAITLEN & BENSON, Long Beach, Calif.
Filed June 2, 1945. Serial No. 484,098. PUBLISHED APRIL 23, 1946. Class 23.

422,419. BOYS' AND MEN'S TROUSERS, SUITS, AND COATS, AND LADIES' SKIRTS, SUITS, COATS, AND SLACKS. HOLLYWOOD TROUSERS, INC., New York, N. Y.
Filed June 7, 1945. Serial No. 484,254. PUBLISHED APRIL 30, 1946. Class 39.

422,420. FRESH VEGETABLES. A. S. KAWAMURA, doing business as Sun Marketing Company, Denver, Rocky Ford, and Alamosa, Colo., and Glendale, Ariz.
Filed June 7, 1945. Serial No. 484,260. PUBLISHED DECEMBER 25, 1945. Class 46.

422,421. WOMEN'S READY-TO-WEAR SUITS, JACKETS, COATS, AND OUTER SKIRTS. LILLI ANN COMPANY, San Francisco, Calif.
Filed June 11, 1945. Serial No. 484,413. PUBLISHED APRIL 30, 1946. Class 39.

422,422. CIGAR AND CIGARETTE LIGHTERS OPERATING ON GASOLINE OR ANY OTHER QUICK IGNITING FLUID. THE PACKET COMPANY, Chicago, Ill.
Filed June 12, 1945. Serial No. 484,457. PUBLISHED APRIL 30, 1946. Class 34.

422,423. MAGAZINE RELATING TO TELEVISION. BILBARA PUBLISHING COMPANY, INC. New York, N. Y.
Filed June 19, 1945. Serial No. 484,771. PUBLISHED OCTOBER 16, 1945. Class 38.

422,424. LEATHER IN THE PIECE. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed June 22, 1945. Serial No. 484,892. PUBLISHED APRIL 30, 1946. Class 1.

422,425. ELECTRICAL BLANKETS, ELECTRICAL NON-THERAPEUTIC HEATING PADS, ELECTRICAL IRONS, ELECTRICAL FANS, ELECTRICAL TOASTERS, AND ELECTRICAL PERCOLATORS. KORCO MANUFACTURING CO., INC., New York, N. Y.
Filed June 27, 1945. Serial No. 485,088. PUBLISHED APRIL 30, 1946. Class 21.

422,426. ELECTRIC PUBLIC ADDRESS COMBINATIONS, CONSISTING OF A PHONOGRAPH TURNTABLE, COMPLETE WITH AMPLIFIER, SPEAKER, AND MICROPHONE ATTACHMENTS. PACIFIC SOUND EQUIPMENT COMPANY, Hollywood, Calif.
Filed June 27, 1945. Serial No. 485,095. PUBLISHED APRIL 30, 1946. Class 21.

422,427. LOCK EQUIPPED CABINETS FOR FIRE EXTINGUISHING APPARATUS. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,290. PUBLISHED MARCH 26, 1946. Class 25.

422,428. INHALERS FOR THE ADMINISTRATION OF THERAPEUTIC AGENTS ORALLY. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed July 3, 1945. Serial No. 485,423. PUBLISHED APRIL 30, 1946. Class 44.

422,429. PAPER ADHESIVE TAPES AND CELLULOSE ADHESIVE TAPES. INTERNATIONAL PLASTIC CORPORATION, Morristown, N. J.
Filed July 13, 1945. Serial No. 485,774. PUBLISHED APRIL 30, 1946. Class 37.

422,430. NECKLACES, BRACELETS, BROOCHES, LAVALIERS, EARRINGS, PENDANTS, FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES, OF PRECIOUS AND SEMI-PRECIOUS METAL. HARRY MORRIS ASSOCIATES, Chicago, Ill.
Filed July 20, 1945. Serial No. 486,057. PUBLISHED APRIL 9, 1946. Class 28.

422,431. RIGID CONDUIT, BOTH GALVANIZED AND BLACK ENAMELED, METALLIC THINWALL CONDUIT AND FITTINGS FOR EACH, ETC. TRIANGLE CONDUIT & CABLE CO., INC., New Brunswick, N. J., and elsewhere.
Filed July 21, 1945. Serial No. 486,125. PUBLISHED APRIL 30, 1946. Class 21.

422,432. SEWING MACHINES, PARTS THEREOF—NAMELY, ATTACHMENTS AND ACCESSORIES FOR SEWING MACHINES. BEGA SEWING MACHINE CORP., New York, N. Y.
Filed July 24, 1945. Serial No. 486,189. PUBLISHED APRIL 30, 1946. Class 23.

422,433. LADIES', MISSES', AND GIRLS' DRESSES, BLOUSES, PLAYSUITS, PINAFORES, AND OUTER SKIRTS; AND MEN'S AND BOYS' SPORT SHIRTS, NECKTIES, AND SCARFS. CREST FABRICS CORP., New York, N. Y.
Filed July 27, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 486,355. PUBLISHED FEBRUARY 19, 1946. Class 39.

422,434. PORTABLE ELECTRIC LAMP PRODUCTS AND WIRING DEVICES AND PARTS THEREOF—NAMELY, ELECTRICAL LAMPS, LAMP GUARDS, ETC. DANIEL WOODHEAD COMPANY, Chicago, Ill.
Filed August 3, 1945. Serial No. 486,705. PUBLISHED APRIL 23, 1946. Class 21.

422,435. FRESH VEGETABLES. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif.
Filed August 13, 1945. Serial No. 487,093. PUBLISHED MARCH 26, 1946. Class 46.

422,436. TUBES, RODS, VALVE SEAT RINGS, AND VALVE DISC CLOSURES FOR FLUID VALVES, AND PIPE LINE COUPLINGS FOR PLUMBING AND STEAM FITTING USE. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va.
Filed August 17, 1945. Serial No. 487,225. PUBLISHED APRIL 30, 1946. Class 13.

422,437. MORTARS, PESTLES, CRUCIBLES, AND VESSELS FOR TESTING AND LABORATORY USE, AND DIMENSIONAL CONTROL TOOLS AND INSTRUMENTS FOR PRECISION MEASUREMENTS—NAMELY, PLUG GAGES, RING GAGES, SCREW THREAD GAGES, TIPS FOR MICROMETER CALIPERS, JAWS FOR VERNIER CALIPERS, AND TIPS FOR DIAL DIMENSIONAL INDICATING GAGES. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va.
Filed August 17, 1945. Serial No. 487,228. PUBLISHED APRIL 30, 1946. Class 26.

422,438. EARTH MOVING CARRIER SCRAPERS OF THE SELF PROPELLED TYPE. WOOLDRIDGE MANUFACTURING COMPANY, Sunnyvale, Calif.
Filed August 21, 1945. Serial No. 487,402. PUBLISHED APRIL 23, 1946. Class 23.

422,439. BATTERY CORROSION ELIMINATOR IN THE NATURE OF A PLATE-RETAINED ANTI-CORROSION PAD FOR USE UPON THE TERMINAL CONNECTIONS AT BATTERY POSTS. LEE GEBHART, doing business as Florida Products Company, Coral Gables, Fla.
Filed August 28, 1945. Serial No. 487,467. PUBLISHED APRIL 23, 1946. Class 21.

422,440. HOSIERY MAKING MACHINE PARTS. UNITED KNITTING MACHINE COMPANY, Cheltenham, Pa.
Filed August 27, 1945. Serial No. 487,651. PUBLISHED APRIL 23, 1946. Class 23.

422,441. C-CLAMPS. GRAND SPECIALTIES COMPANY, Chicago, Ill.
Filed September 1, 1945. Serial No. 487,906. PUBLISHED APRIL 23, 1946. Class 23.

422,442. MECHANICALLY OPERATED AUTOMATIC SAFETY CONTROL AND LOCKING DEVICES FOR ELEVATORS—NAMELY, ELEVATOR INTERLOCKS, DOOR CHECKS, DOOR HANGERS AND SELF-LEVELING DEVICES, AND PARTS THEREOF. THE THURBER COMPANY, INCORPORATED, Brooklyn, N. Y.
Filed September 10, 1945. Serial No. 488,243. PUBLISHED APRIL 30, 1946. Class 23.

422,443. SAUCE CONTAINING TOMATOES, VINEGAR, CEREALS AND SEASONING, SWEET RELISH, FRENCH MUSTARD, PURE APPLE CIDER VINEGAR, ETC. PA-POOSE PRODUCTS CO., New Orleans, La.
Filed September 11, 1945. Serial No. 488,282. PUBLISHED APRIL 30, 1946. Class 46.

422,444. MEN'S, BOYS', AND CHILDRENS' UNDERWEAR AND KNITTED OUTERWEAR—NAMELY, SWEATERS, INCLUDING PULLOVERS AND BUTTONED SWEATERS; JACKETS AND SPORT COATS. ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y.
Filed September 15, 1945. Serial No. 488,496. PUBLISHED APRIL 30, 1946. Class 39.

422,445. ROTARY PUMPS FOR MOVING FLUIDS. JEROME SIMER, doing business as Jerome Simer Co., Minneapolis, Minn.
Filed September 17, 1945. Serial No. 488,621. PUBLISHED APRIL 23, 1946. Class 23.

422,446. RADIO AND ELECTRONIC EQUIPMENT—NAMELY, RADIO RECEIVERS, TRANSMITTERS, AND COMPONENT PARTS THEREOF. TECHNICAL DEVICES CORPORATION, Roseland, N. J.
Filed September 19, 1945. Serial No. 488,715. PUBLISHED APRIL 30, 1946. Class 21.

422,447. PORCELAIN LINING BLOCKS AND PORCELAIN GRINDING BALLS FOR BALL MILLS. THE PATTERSON FOUNDRY & MACHINE CO., East Liverpool, Ohio.
Filed September 21, 1945. Serial No. 488,830. PUBLISHED APRIL 30, 1946. Class 23.

422,448. DOLLS AND DRESSED DOLLS. GEO. F. WEBBER, Akron, Ohio.
Filed September 27, 1945. Serial No. 489,094. PUBLISHED APRIL 30, 1946. Class 22.

422,449. BLEND OF CANE SYRUP AND CORN SYRUP FOR TABLE USE. HALL GRAIN COMPANY, New Iberia, La.
Filed October 8, 1945. Serial No. 489,580. PUBLISHED APRIL 30, 1946. Class 46.

422,450. FROZEN FOODS—NAMELY, ASPARAGUS, DICED BEETS, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER, CHOW MEIN, CORN, FRENCH AND REGULAR CUT BEANS, KALE, LIMA AND GREEN BEANS, GREEN PEAS, SPINACH, SUCCOTASH, SQUASH, ETC. STERLING POINT FROSTED FOODS, New York, N. Y.
Filed October 10, 1945. Serial No. 489,775. PUBLISHED APRIL 30, 1946. Class 46.

422,451. SILVER PLATED FLAT TABLEWARE. ONEIDA LTD., Sherrill and Oneida, N. Y.
Filed October 11, 1945. Serial No. 489,824. PUBLISHED APRIL 16, 1946. Class 28.

422,452. HAND TRUCKS. GAMBS-PEETS, INC., Oakland, Calif.
Filed October 12, 1945. Serial No. 489,861. PUBLISHED APRIL 16, 1946. Class 19.

422,453. WATCHES. NIVADA WATCH CORPORATION, New York, N. Y.
Filed October 19, 1945. Serial No. 490,204. PUBLISHED APRIL 16, 1946. Class 27.

422,454. JEWELRY FOR PERSONAL WEAR (NOT INCLUDING WATCHES), WATCH CHAINS, ANKLETS, FINGER RINGS, IDENTIFICATION BRACELETS, WATCH BRACELETS, MEDAL BROOCH AND EMBLEM PINS. TAYLOR & CO., Houston, Tex.
Filed October 19, 1945. Serial No. 490,216. PUBLISHED APRIL 16, 1946. Class 28.

422,455. LABORATORY ELECTRIC FURNACE. KARL H. HUPPERT, Chicago, Ill.
Filed October 23, 1945. Serial No. 490,382. PUBLISHED APRIL 30, 1946. Class 26.

422,456. WATCHES. WESTMINSTER SILVER CO., INC., New York, N. Y.
Filed October 23, 1945. Serial No. 490,409. PUBLISHED APRIL 16, 1946. Class 27.

422,457. TRANSPARENT AND TRANSLUCENT FLEXIBLE FILMS FORMED OF SYNTHETIC RESINS TO BE SOLD BY THE YARD. PLASTIC FILM CORPORATION, New York, N. Y.
Filed October 24, 1945. Serial No. 490,444. PUBLISHED APRIL 30, 1946. Class 50.

422,458. ELECTRIC CLOCKS. HAMMOND INSTRUMENT COMPANY, Chicago, Ill.
Filed October 25, 1945. Serial No. 490,488. PUBLISHED APRIL 23, 1946. Class 27.

422,459. FRICTION LIGHTERS FOR USE WITH WELDING, CUTTING AND HEATING BLOWPIPES AND GAS BURNERS AND FOR SIMILAR USES, ETC. UNION CARBIDE AND CARBON CORPORATION, New York, N. Y.
Filed October 26, 1945. Serial No. 490,559. PUBLISHED APRIL 30, 1946. Class 34.

422,460. OIL FIELD EQUIPMENT—NAMELY, ROTARY HOSE STABILIZER, ROTARY HOSE REEL CASES, OUTSIDE LINER SLEEVE RUBBERS, STUFFING BOX RUBBERS, SLUSH PUMP PISTONS, DRILL PIPE PROTECTOR INSTALLATION MACHINE, POWER RIG STEAM CLEANER, AND ROTARY HOSE COUPLING. DAVID EDWARD CARTER, doing business as Manufactures Warehouse Co., Oklahoma City, Okla.
Filed October 30, 1945. Serial No. 490,741. PUBLISHED APRIL 30, 1946. Class 23.

422,461. CLOCKS. THE E. INGRAHAM COMPANY, Bristol, Conn.
Filed October 30, 1945. Serial No. 490,757. PUBLISHED APRIL 16, 1946. Class 27.

422,462. BOUDOIR CLOCKS. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass.
Filed October 30, 1945. Serial No. 490,767. PUBLISHED APRIL 16, 1946. Class 27.

422,463. POWER-DRIVEN MACHINE FOR HUSKING CORN. EAGLE MANUFACTURING COMPANY, Appleton, Wis.
Filed November 3, 1945. Serial No. 491,001. PUBLISHED APRIL 30, 1946. Class 23.

422,464. DEHYDRATED POTATOES. C. F. BUELOW, doing business as C. F. Buelow Co., Seattle, Wash.
Filed November 8, 1945. Serial No. 491,228. PUBLISHED APRIL 30, 1946. Class 46.

422,465. NEWSPAPER COLUMN. THE CHRISTIAN SCIENCE PUBLISHING SOCIETY, Boston, Mass.
Filed November 9, 1945. Serial No. 491,312. PUBLISHED APRIL 23, 1946. Class 38.

422,466. ARTIFICIAL PEARLS AND JEWELRY CONTAINING SAME FOR PERSONAL WEAR, NOT INCLUDING WATCHES. EARL WILSON, New York, N. Y.
Filed November 10, 1945. Serial No. 491,443. PUBLISHED APRIL 16, 1946. Class 28.

422,467. PASTE SUITABLE FOR USE WITH WALL PAPER AND LIKE PRODUCTS. ISGO WALL PAPER CORPORATION, Chicago, Ill.
Filed November 13, 1945. Serial No. 491,479. PUBLISHED APRIL 30, 1946. Class 5.

422,468. FOLDED OR TWISTED PAPER YARNS FOR USE AS INSULATION AROUND ELECTRIC WIRES AND CABLES. MILLETT CORPORATION, New York, N. Y.
Filed November 13, 1945. Serial No. 491,490. PUBLISHED APRIL 23, 1946. Class 21.

422,469. SCISSORS AND SHEARS. THE CLAYTON MANUFACTURING COMPANY, Bristol, Conn.
Filed November 15, 1945. Serial No. 491,628. PUBLISHED APRIL 23, 1946. Class 23.

422,470. SOUND RECORDINGS OF THE MAGNETIZED WIRE TYPE. LELAND J. ARMS, San Francisco, Calif.
Filed November 21, 1945. Serial No. 491,949. PUBLISHED APRIL 30, 1946. Class 21.

422,471. TOMATO JUICE, CANNED GOODS—NAMELY, CLAMS, OYSTERS, LOBSTER, SOUPS, CLAM CHOWDER, CHICKEN, CHICKEN SALAD, FRUITS AND VEGETABLES; DOUGHNUTS, COOKIES, HAMBURGER SANDWICHES; BAKERY PRODUCTS—NAMELY, BREADS, ROLLS, CAKES, FRUIT PASTRIES; COFFEE, TEA, CHOCOLATE AND CANDY. ADOLPH KLUG, Oakdale, N. Y.
Filed November 21, 1945. Serial No. 491,985. PUBLISHED APRIL 30, 1946. Class 46.

422,472. HAIR BRUSHES. HOWARD BORN, doing business as B & S Products Co., New York, N. Y.
Filed November 24, 1945. Serial No. 492,126. PUBLISHED APRIL 23, 1946. Class 29.

422,473. FINGER RINGS. SHIMAN BROS. & CO., INC., New York, N. Y.
Filed November 24, 1945. Serial No. 492,159. PUBLISHED APRIL 23, 1946. Class 28.

422,474. COLLAPSIBLE CLOTHES DRIER RACK. EVERETT E. YOUNG CO., INC., Bridgewater, Mass.
Filed November 24, 1945. Serial No. 492,168. PUBLISHED APRIL 23, 1946. Class 24.

422,475. TWIST DRILLS, CHUCKS, REAMERS, TAPS, DIES AND MILLING CUTTERS. THE STANDARD TOOL COMPANY, Cleveland, Ohio.
Filed November 26, 1945. Serial No. 492,232. PUBLISHED APRIL 30, 1946. Class 23.

422,476. LAUNDRY NETS. G. S. ROBINS & COMPANY, St. Louis, Mo.
Filed November 28, 1945. Serial No. 492,340. PUBLISHED APRIL 23, 1946. Class 24.

422,477. MEN'S OVERCOATS. D. B. ROSENBLATT, INCORPORATED, Minneapolis, Minn.
Filed November 30, 1945. Serial No. 492,465. PUBLISHED APRIL 30, 1946. Class 39.

422,478. HAEMOSTATIC FORCEPS, HOLDERS FOR SURGICAL NEEDLES, TISSUE FORCEPS, SKIN CLIPS, OPERATING SCISSORS, AND DISSECTING SCISSORS. MASTER SURGICAL INSTRUMENT COMPANY, Irvington, N. J.
Filed December 18, 1945. Serial No. 493,503. PUBLISHED APRIL 30, 1946. Class 44.

422,479. FRESH VEGETABLES—NAMELY, TOMATOES. H. E. SCHREIBER & SON, Rio Grande City and Donna, Tex.
Filed December 22, 1945. Serial No. 493,831. PUBLISHED APRIL 30, 1946. Class 46.

422,480. CANDY. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa.
Filed December 26, 1945. Serial No. 493,905. PUBLISHED APRIL 30, 1946. Class 46.

422,481. COMPACTS FOR CONTAINING COSMETICS MADE OF PLASTIC AND SOLD IN TRADE EMPTY. CORO, INC., New York, N. Y.
Filed December 29, 1945. Serial No. 494,030. PUBLISHED APRIL 30, 1946. Class 2.

422,482. COMPACTS FOR CONTAINING COSMETICS MADE OF PLASTIC AND SOLD IN TRADE EMPTY. CORO, INC., New York, N. Y.
Filed December 29, 1945. Serial No. 494,034. PUBLISHED APRIL 30, 1946. Class 2.

422,483. CONDENSED BREAKFAST FOOD WITH A COCOA BASE. ROBERT GASTON LEROUX, Asnieres, France.
Filed December 29, 1945. Serial No. 494,090. PUBLISHED APRIL 30, 1946. Class 46.

422,484. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,035. PUBLISHED APRIL 30, 1946. Class 2.

422,485. VANITY CASES, COMPACTS AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,037. PUBLISHED APRIL 30, 1946. Class 2.

422,486. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC, AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,043. PUBLISHED APRIL 30, 1946. Class 2.

422,487. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,048. PUBLISHED APRIL 30, 1946. Class 2.

422,488. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,050. PUBLISHED APRIL 30, 1946. Class 2.

422,489. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,051. PUBLISHED APRIL 30, 1946. Class 2.

422,490. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,060. PUBLISHED APRIL 30, 1946. Class 2.

422,491. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,062. PUBLISHED APRIL 30, 1946. Class 2.

422,492. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,065. PUBLISHED APRIL 30, 1946. Class 2.

422,493. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,068. PUBLISHED APRIL 30, 1946. Class 2.

422,494. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,070. PUBLISHED APRIL 30, 1946. Class 2.

422,495. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,073. PUBLISHED APRIL 30, 1946. Class 2.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

422,496. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTGATE SEA PRODUCTS CO., San Diego, Calif. Filed Apr. 17, 1943. Serial No. 459,971.

Westgate

FOR CANNED FISH.
Claims use since April 1921.

422,497. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MICRO-MASTER COMPANY, Chicago, Ill. Filed Feb. 19, 1944. Serial No. 467,570.

MICRO-CHUK

FOR NON-MAGNETIC HOLDING DEVICES FOR CLAMPING WORK-PIECES IN POSITION DURING DRILLING OR OTHER OPERATIONS THEREON.
Claims use since Jan. 1, 1944.

422,498. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MILWAUKEE TOOL AND DIE CO., Milwaukee, Wis. Filed Mar. 4, 1944. Serial No. 467,976.

Miltool

FOR METAL CUTTING, GRINDING AND DISTORTING TOOLS, TOOL HOLDERS, PUNCHES, DIES, JIGS, CHUCKS, AND WORK ATTACHING AND POSITIONING FIXTURES, FOR CUTTING, FINISHING, DISTORTING AND OTHERWISE WORKING METAL AND OTHER SOLID MATERIALS.
Claims use since Jan. 11, 1944.

422,499. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDARD STEEL WORKS, North Kansas City, Mo. Filed May 26, 1944. Serial No. 470,687.

STANDARD STEEL WORKS KANSAS CITY MO.

FOR FEED GRINDERS, ROAD AND STREET CONSTRUCTION AND MAINTENANCE EQUIPMENT—NAMELY, ASPHALT DISTRIBUTORS, SPRAY BARS THEREFOR, ROAD ROLLERS, AND LAND TERRACING MACHINES.
Claims use since August 1926.

422,500. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RANSOME MACHINERY COMPANY, Dunellen, N. J. Filed Sept. 28, 1944. Serial No. 474,708.

POSITION WELDING PAYS

FOR MACHINES FOR HOLDING WORK DURING WELDING OPERATIONS.
Claims use since June 1944.

422,501. (CLASS 39. CLOTHING.) GORDON & LESHER DRESS CORP., New York, N. Y. Filed Nov. 28, 1944. Serial No. 476,966.

A Jayne Bradley fashion by GORDON & LESHER

The background of the label is white.
FOR WOMEN'S DRESSES.
Claims use since Nov. 14, 1944.

422,502. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE WILBERT PRODUCTS CO., INC., New York, N. Y. Filed Feb. 27, 1945. Serial No. 480,303.

"No-rub"
PLASTIC FLOOR FINISH

FOR PLASTIC FLOOR FINISH.
Claims use since Nov. 3, 1944.

422,503. (CLASS 39. CLOTHING.) FASHION PARK, INC., Rochester, N. Y. Filed Mar. 10, 1945. Serial No. 480,748.

LITECOTE

FOR MEN'S TOPCOATS, OVERCOATS, AND SPORT COATS.
Claims use since Jan. 3, 1945.

422,504. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) QUICK CHARGE, INC., Oklahoma City, Okla. Filed Mar. 13, 1945. Serial No. 480,877.

Quick-Arc

FOR ELECTRICAL ARC WELDING MACHINES AND PARTS THEREOF.
Claims use since Dec. 28, 1944.

422,505. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) QUICK-WAY TRUCK SHOVEL CO., Denver, Colo. Filed Mar. 13, 1945. Serial No. 480,878.

QUICK-WAY

FOR TRUCK SHOVELS, DRAGLINES, TRENCH HOES, CLAMSHELLS, PILE DRIVERS AND CRANES, AND PARTS THEREOF.
Claims use since 1931.

422,506. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEYMOUR SMITH & SON, INC., Watertown, Conn., and elsewhere. Filed Mar. 29, 1945. Serial No. 481,495.

"Snap-Lock"

FOR PLIERS, CLAMPS IN THE NATURE OF WORKING TOOLS, AND WRENCHES.
Claims use since Feb. 6, 1945.

422,507. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELON J. GILBERT, doing business as Richey & Gilbert Company, Yakima, Wash. Filed Apr. 2, 1945. Serial No. 481,625.

PILLOW-PAK

FOR FRESH DECIDUOUS FRUITS.
Claims use since Feb. 1, 1945.

422,508. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HANSEN AND SIMONSEN, Milwaukee, Wis. Filed Apr. 4, 1945. Serial No. 481,702.

"Dril-Fil-Saw"

FOR PORTABLE HAND TOOLS—NAMELY, DRILLS, SAWS, AND FILES AND PARTS THEREOF.
Claims use since Sept. 1, 1944.

422,509. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MISSION MANUFACTURING COMPANY, Houston, Tex. Filed Apr. 16, 1945. Serial No. 482,211.

SUPER-SURFACED

FOR SLUSH PUMP RODS, PLUG VALVES AND PARTS THEREFOR.
Claims use since Jan. 1, 1940.

422,510. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARGARET T. STURR, Haddon Heights, N. J. Filed May 1, 1945. Serial No. 482,855.

STURR-GRIP

FOR JAR LIFTERS.
Claims use since Mar. 26, 1945.

422,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN D. HAMILTON, doing business as Hamilton Candy Company, Tacoma, Wash. Filed May 4, 1945. Serial No. 482,988.

Pecan Treat

HAMILTON CANDY COMPANY

Applicant is the owner of Reg. No. 405,100.
FOR CANDY.
Claims use since Apr. 25, 1945.

422,512. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED THERMO-STABLE CORPORATION, New York, N. Y. Filed May 8, 1945. Serial No. 483,124.

THERMO STABLE

The drawing is lined to indicate the colors red and blue, and the unlined to indicate white.
FOR ELECTRICALLY HEATED PADS AND ELECTRICALLY HEATED BLANKETS FOR NON-THERAPEUTIC USES, AND ELECTRICALLY HEATED FLYING-SUITS.
Claims use since Jan. 17, 1944.

422,513. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STOMAC ENGINEERING COMPANY, Cleveland, Ohio. Filed May 17, 1945. Serial No. 483,503.

Electra

FOR WATER OR LIQUID CONDITIONERS EMPLOYING ELECTRIC CURRENT FLOWING THROUGH THE WATER OR LIQUID FOR TREATING THE WATER OR LIQUID.
Claims use since June 6, 1944.

422,514. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed May 26, 1945. Serial No. 483,818.

INSERTOR

FOR CONTAINERS FOR INSERTING SAFETY RAZOR BLADES INTO SAFETY RAZORS.
Claims use since May 1, 1945.

422,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARL O. LASSY, doing business as Lassy Tool Company, Plainville, Conn. Filed June 7, 1945. Serial No. 484,263.

LASSY

FOR HAND-OPERATED MACHINES FOR OPERATION ON METAL IN FORMING THREADS IN HOLES OR SOCKETS AND PARTS OF SUCH MACHINES, METAL-FORMING DIES, METAL-FORMING PUNCHES, AND WORK HOLDERS FOR USE IN DRILLING, BORING, TAPPING, MILLING, PLANING AND GRINDING OPERATIONS ON METAL.
Claims use since Nov. 18, 1943.

422,516. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GLOBE HOIST COMPANY, Des Moines, Iowa. Filed June 29, 1945. Serial No. 485,213.

SURFACE PACKED

FOR STATIONERY HYDRAULIC AUTOMOBILE HOISTS.
Claims use since May 18, 1945.

422,517. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CONSOLIDATED RAZOR BLADE CO. INC., Jersey City, N. J. Filed July 18, 1945. Serial No. 485,941.

Berkeley

FOR WATCH BANDS.
Claims use since May 23, 1945.

422,518. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) REINHARD-MCCABE CO., Minneapolis, Minn. Filed July 18, 1945. Serial No. 485,961.

GLO-POINT

FOR ELECTRICAL SOLDERING IRONS.
Claims use since Feb. 1, 1940.

422,519. (CLASS 15. OILS AND GREASES.) BATTENFELD GREASE & OIL CORPORATION, Kansas City, Mo. Filed Aug. 2, 1945. Serial No. 486,604.

FLO-GREASE

FOR LUBRICATING GREASES.
Claims use since Apr. 10, 1945.

422,520. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDMUND B. WHITE, Quincy, Mass. Filed Aug. 3, 1945. Serial No. 486,704.

UP-N-OFF

FOR JAR AND BOTTLE CAP REMOVERS.
Claims use since Dec. 15, 1941.

422,521. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LEE PRODUCTS CO., Atlanta, Ga. Filed Aug. 8, 1945. Serial No. 486,905.

LEE

FOR RAZOR BLADES.
Claims use since June 1, 1936.

422,522. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAX DEUTSCH, doing business as Glas-Lite Rotary Display Mfg. Co., Long Branch, N. J. Filed Aug. 17, 1945. Serial No. 487,177.

GLAS-LITE

FOR ELECTRIC MERCHANDISE DISPLAY APPARATUS HAVING ROTARY, ILLUMINATED, TRANSPARENT, ARTICLE SUPPORTING TURNTABLES.
Claims use since August 1944.

422,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARTLETT-HEARD LAND & CATTLE COMPANY, also doing business as Bartlett Heard Co., Phoenix, Ariz. Filed Aug. 28, 1945. Serial No. 487,660.

HEARD

FOR FRESH GRAPES AND FRESH DECIDUOUS FRUITS—NAMELY, APRICOTS.
Claims use since May 25, 1945.

422,524. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ASSOCIATED PRODUCTS, INC., Toledo Ohio. Filed Sept. 8, 1945. Serial No. 488,143.

THE Akron

FOR ELECTRIC RANGES, OVENS, HOT PLATES AND GRIDDLES.
Claims use since March 1942.

422,525. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ERNEST BOREL & CO. S. A., Neuchatel, Switzerland. Filed Sept. 20, 1945. Serial No. 488,737.

E. BOREL. Co

FOR WATCHES, CLOCKS, AND PARTS THEREOF.
Claims use since 1930.

422,526. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY A. COHEN, doing business as Standard Electric Mfg. Co., West Berlin, N. J. Filed Oct. 3, 1945. Serial No. 489,313.

STANDARD ELECTRIC

FOR SUMP PUMPS, CENTRIFUGAL PUMPS, COOLANT PUMPS, MECHANICAL AGITATORS FOR AGITATING CHEMICALS, AIR COMPRESSORS, AND PULLEYS.
Claims use since February 1939.

422,527. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CONAN W. B. BARGER, Prince Georges County, Md. Filed Oct. 23, 1945. Serial No. 490,353.

Sound History

FOR MECHANICALLY GROOVED DISK RECORDS FOR AUDIBLE REPRODUCTION.
Claims use since Mar. 10, 1945.

422,528. (CLASS 5. ADHESIVES.) INDUSTRIAL LATEX COMPANY, New York, N. Y. Filed Nov. 30, 1945. Serial No. 492,442.

RUBRBOND

FOR LATEX ADHESIVE.
Claims use since July 10, 1944.

422,529. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE RODÉ ART JEWELERS, INC., New York, N. Y. Filed Dec. 13, 1945. Serial No. 493,218.

RODÉ ART

FOR NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, CIGARETTE CASES, FANCY BUCKLES, JEWELRY INITIALS.
Claims use since January 1944.

422,530. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROWN-LIPE GEAR COMPANY, Toledo, Ohio. Filed Dec. 21, 1945. Serial No. 493,649.

BROWN LIPE GEAR BOXES

FOR AUTOMOTIVE TRANSMISSION MECHANISMS—NAMELY, CHANGE SPEED GEAR BOXES, AUXILIARY GEAR BOXES, POWER TAKE OFF GEARING, POWER TRANSMISSION CLUTCHES AND MECHANICAL CONTROL MECHANISMS THEREFOR, AND PARTS THEREOF.
Claims use since Jan. 15, 1931.

422,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROWN-LIPE GEAR COMPANY, Toledo, Ohio. Filed Dec. 21, 1945. Serial No. 493,650.

BROWN-LIPE GEAR CO.

FOR AUTOMOTIVE TRANSMISSION MECHANISMS—NAMELY, CHANGE SPEED GEAR BOXES, AUXILIARY GEAR BOXES, POWER TAKE OFF GEARING, POWER TRANSMISSION CLUTCHES AND MECHANICAL CONTROL MECHANISMS THEREFOR, AND PARTS THEREOF.
Claims use since Jan. 9, 1924.

422,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS BROTHERS, San Francisco, Calif. Filed Jan. 8, 1946. Serial No. 494,445.

DODGE

Applicant is the owner of Reg. Nos. 161,870 and 256,828.
FOR FOOD PRODUCTS—NAMELY, CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, CANNED FISH, CANNED SHELL FISH, CANNED FRUIT COCKTAIL, CANNED FRUITS FOR SALAD, CANNED APPLE SAUCE, CANNED MUSHROOMS, OLIVES, PICKLES, TOMATO CATSUP, AND DRIED FRUIT.
Claims use since Apr. 15, 1916.

422,533. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE NAPIER CO., Meriden, Conn. Filed Jan. 22, 1946. Serial No. 495,186.

by Napier

FOR STERLING SILVER NECKLACES, BRACELETS, EARRINGS, PINS, AND CLIPS.
Claims use since July 10, 1942.

TRADE-MARK REGISTRATIONS RENEWED

46,998. **ADMIRALTY.** SURFACE AND JET CONDENSERS. Registered Oct. 17, 1905. WHEELER CONDENSER & ENGINEERING CO. Re-renewed Oct. 17, 1945, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York. Class 23.

48,409. **WHEELER.** EVAPORATING AND DISTILLING APPARATUS EMPLOYING STEAM AS A HEATING MEDIUM. Registered Dec. 26, 1905. WHEELER CONDENSER & ENGINEERING CO. Re-renewed Dec. 26, 1945, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York. Class 23.

48,539. **JOHN I. BROWN & SON.** MEDICATED LOZENGES. Registered Jan. 2, 1906. JOHN I. BROWN & SON, Boston, Mass. Re-renewed Jan. 2, 1946, to Lafayette Drug Co., Inc., Jersey City, N. J., a corporation of New Jersey. Class 6.

49,494. **ANSONIA.** CLOCKS. Registered Feb. 6, 1906. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y. Re-renewed Feb. 6, 1946, to The Ansonia Clock Company, Inc., New York, N. Y., a corporation of New York. Class 27.

49,731. **THE ANSONIA CLOCK COMPANY.** CLOCKS. Registered Feb. 13, 1906. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y. Re-renewed Feb. 13, 1946, to The Ansonia Clock Company, Inc., New York, N. Y., a corporation of New York. Class 27.

49,848. **PLANSIFTER.** SHAKING-BOLTS. Registered Feb. 20, 1906. BARNARD & LEAS MANUFACTURING CO., Moline, Ill., a corporation of Illinois. Re-renewed Feb. 20, 1946. Class 13.

51,496. **REPRESENTATION OF A MAN WALKING OVER SHOE.** LEATHER AND CANVAS BOOTS AND SHOES. Registered Apr. 17, 1906. GEO. E. KEITH COMPANY, Brockton, Mass., a corporation of Massachusetts. Re-renewed Apr. 17, 1946. Class 39.

52,157. **DOOM.** COMPOUND FOR EXTERMINATING VERMIN. Registered May 1, 1906. EDGAR A. MURRAY. Re-renewed May 1, 1946, to Edgar A. Murray Co., Detroit, Mich., a corporation of Michigan. Class 6.

52,170. **"SLAWNY BALSAM" ETC.** STOMACHIC AND CARMINATIVE. Registered May 1, 1906. ELIZABETH DORT. Re-renewed May 1, 1946, to Florence Zegler, Buffalo, N. Y. Class 6.

52,385. **REPRESENTATION OF A SHIELD.** PAPER BAGS. Registered May 8, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed May 8, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

52,386. **PEERLESS.** PAPER BAGS. Registered May 8, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed May 8, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

53,001. **REPRESENTATION OF A MAN WALKING OVER A SHOE.** SHOE-DRESSING. Registered May 22, 1906. GEO. E. KEITH COMPANY, Brockton, Mass., a corporation of Massachusetts. Re-renewed May 22, 1946. Class 4.

53,577. **"STAR" AND STAR DESIGN.** PAPER BAGS. Registered June 5, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed June 5, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

54,223. **ALLIGATOR.** PAPER BAGS. Registered June 19, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed June 19, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

422,521. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LEE PRODUCTS CO., Atlanta, Ga. Filed Aug. 8, 1945. Serial No. 486,905.

LEE

FOR RAZOR BLADES.
Claims use since June 1, 1936.

422,522. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAX DEUTSCH, doing business as Glas-Lite Rotary Display Mfg. Co., Long Branch, N. J. Filed Aug. 17, 1945. Serial No. 487,177.

GLAS-LITE

FOR ELECTRIC MERCHANDISE DISPLAY APPARATUS HAVING ROTARY, ILLUMINATED, TRANSPARENT, ARTICLE SUPPORTING TURNTABLES.
Claims use since August 1944.

422,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARTLETT-HEARD LAND & CATTLE COMPANY, also doing business as Bartlett Heard Co., Phoenix, Ariz. Filed Aug. 28, 1945. Serial No. 487,660.

HEARD

FOR FRESH GRAPES AND FRESH DECIDUOUS FRUITS—NAMELY, APRICOTS.
Claims use since May 25, 1945.

422,524. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ASSOCIATED PRODUCTS, INC., Toledo Ohio. Filed Sept. 8, 1945. Serial No. 488,143.

THE Akron

FOR ELECTRIC RANGES, OVENS, HOT PLATES AND GRIDDLES.
Claims use since March 1942.

422,525. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ERNEST BOREL & CO. S. A., Neuchatel, Switzerland. Filed Sept. 20, 1945. Serial No. 488,737.

E. BOREL. Co

FOR WATCHES, CLOCKS, AND PARTS THEREOF.
Claims use since 1930.

422,526. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY A. COHEN, doing business as Standard Electric Mfg. Co., West Berlin, N. J. Filed Oct. 3, 1945. Serial No. 489,313.

STANDARD ELECTRIC

FOR SUMP PUMPS, CENTRIFUGAL PUMPS, COOLANT PUMPS, MECHANICAL AGITATORS FOR AGITATING CHEMICALS, AIR COMPRESSORS, AND PULLEYS.
Claims use since February 1939.

422,527. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CONAN W. B. BARGER, Prince Georges County, Md. Filed Oct. 23, 1945. Serial No. 490,353.

Sound History

FOR MECHANICALLY GROOVED DISK RECORDS FOR AUDIBLE REPRODUCTION.
Claims use since Mar. 10, 1945.

422,528. (CLASS 5. ADHESIVES.) INDUSTRIAL LATEX COMPANY, New York, N. Y. Filed Nov. 30, 1945. Serial No. 492,442.

RUBRBOND

FOR LATEX ADHESIVE.
Claims use since July 10, 1944.

422,529. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE RODÉ ART JEWELERS, INC., New York, N. Y. Filed Dec. 13, 1945. Serial No. 493,218.

RODÉ ART

FOR NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, CIGARETTE CASES, FANCY BUCKLES, JEWELRY INITIALS.
Claims use since January 1944.

422,530. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROWN-LIPE GEAR COMPANY, Toledo, Ohio. Filed Dec. 21, 1945. Serial No. 493,649.

BROWN LIPE GEAR BOXES

FOR AUTOMOTIVE TRANSMISSION MECHANISMS—NAMELY, CHANGE SPEED GEAR BOXES, AUXILIARY GEAR BOXES, POWER TAKE OFF GEARING, POWER TRANSMISSION CLUTCHES AND MECHANICAL CONTROL MECHANISMS THEREFOR, AND PARTS THEREOF.
Claims use since Jan. 15, 1931.

422,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BROWN-LIPE GEAR COMPANY, Toledo, Ohio. Filed Dec. 21, 1945. Serial No. 493,650.

BROWN-LIPE GEAR CO.

FOR AUTOMOTIVE TRANSMISSION MECHANISMS—NAMELY, CHANGE SPEED GEAR BOXES, AUXILIARY GEAR BOXES, POWER TAKE OFF GEARING, POWER TRANSMISSION CLUTCHES AND MECHANICAL CONTROL MECHANISMS THEREFOR, AND PARTS THEREOF.
Claims use since Jan. 9, 1924.

422,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAAS BROTHERS, San Francisco, Calif. Filed Jan. 8, 1946. Serial No. 494,445.

DODGE

Applicant is the owner of Reg. Nos. 161,870 and 256,828.
FOR FOOD PRODUCTS—NAMELY, CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, CANNED FISH, CANNED SHELL FISH, CANNED FRUIT COCKTAIL, CANNED FRUITS FOR SALAD, CANNED APPLE SAUCE, CANNED MUSHROOMS, OLIVES, PICKLES, TOMATO CATSUP, AND DRIED FRUIT.
Claims use since Apr. 15, 1916.

422,533. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE NAPIER CO., Meriden, Conn. Filed Jan. 22, 1946. Serial No. 495,186.

by Napier

FOR STERLING SILVER NECKLACES, BRACELETS, EARRINGS, PINS, AND CLIPS.
Claims use since July 10, 1942.

TRADE-MARK REGISTRATIONS RENEWED

46,998. **ADMIRALTY.** SURFACE AND JET CONDENSERS. Registered Oct. 17, 1905. WHEELER CONDENSER & ENGINEERING CO. Re-renewed Oct. 17, 1945, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York. Class 23.

48,409. **WHEELER.** EVAPORATING AND DISTILLING APPARATUS EMPLOYING STEAM AS A HEATING MEDIUM. Registered Dec. 26, 1905. WHEELER CONDENSER & ENGINEERING CO. Re-renewed Dec. 26, 1945, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York. Class 23.

48,539. **JOHN I. BROWN & SON.** MEDICATED LOZENGES. Registered Jan. 2, 1906. JOHN I. BROWN & SON, Boston, Mass. Re-renewed Jan. 2, 1946, to Lafayette Drug Co., Inc., Jersey City, N. J., a corporation of New Jersey. Class 6.

49,494. **ANSONIA.** CLOCKS. Registered Feb. 6, 1906. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y. Re-renewed Feb. 6, 1946, to The Ansonia Clock Company, Inc., New York, N. Y., a corporation of New York. Class 27.

49,731. **THE ANSONIA CLOCK COMPANY.** CLOCKS. Registered Feb. 13, 1906. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y. Re-renewed Feb. 13, 1946, to The Ansonia Clock Company, Inc., New York, N. Y., a corporation of New York. Class 27.

49,848. **PLANSIFTER.** SHAKING-BOLTS. Registered Feb. 20, 1906. BARNARD & LEAS MANUFACTURING CO., Moline, Ill., a corporation of Illinois. Re-renewed Feb. 20, 1946. Class 13.

51,496. **REPRESENTATION OF A MAN WALKING OVER SHOE.** LEATHER AND CANVAS BOOTS AND SHOES. Registered Apr. 17, 1906. GEO. E. KEITH COMPANY, Brockton, Mass., a corporation of Massachusetts. Re-renewed Apr. 17, 1946. Class 39.

52,157. **DOOM.** COMPOUND FOR EXTERMINATING VERMIN. Registered May 1, 1906. EDGAR A. MURRAY. Re-renewed May 1, 1946, to Edgar A. Murray Co., Detroit, Mich., a corporation of Michigan. Class 6.

52,170. **"SLAWNY BALSAM" ETC.** STOMACHIC AND CARMINATIVE. Registered May 1, 1906. ELIZABETH DORT. Re-renewed May 1, 1946, to Florence Zegler, Buffalo, N. Y. Class 6.

52,385. **REPRESENTATION OF A SHIELD.** PAPER BAGS. Registered May 8, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed May 8, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

52,386. **PEERLESS.** PAPER BAGS. Registered May 8, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed May 8, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

53,001. **REPRESENTATION OF A MAN WALKING OVER A SHOE.** SHOE-DRESSING. Registered May 22, 1906. GEO. E. KEITH COMPANY, Brockton, Mass., a corporation of Massachusetts. Re-renewed May 22, 1946. Class 4.

53,577. **"STAR" AND STAR DESIGN.** PAPER BAGS. Registered June 5, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed June 5, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

54,223. **ALLIGATOR.** PAPER BAGS. Registered June 19, 1906. THE UNION BAG & PAPER COMPANY. Re-renewed June 19, 1946, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Class 2.

54,231. **GORHAM.** ELECTROPLATED HOLLOW WARE, ELECTROPLATED OR SILVER-PLATED TABLEWARE, AND ELECTROPLATED OR SILVER-PLATED FLAT WARE. Registered June 26, 1906. GORHAM MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed June 26, 1946. Class 28.

54,597. **GORHAM.** COMBINATION LEATHER WRITING SETS OR SECRETARIES, LEATHER-BOUND BLOTTING-PADS, AND LEATHER WRITING-PADS. Registered June 26, 1906. GORHAM MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed June 26, 1946. Class 37.

54,763. **GORHAM.** STERLING AND SOLID SILVER HOLLOW WARE, FLAT WARE, AND TABLEWARE. Registered June 26, 1906. GORHAM MFG. CO., New York, N. Y. Re-renewed June 26, 1946, to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island. Class 28.

54,903. **"LIONA" AND DESIGN.** SILK EMBROIDERIES. Registered July 31, 1906. LION BROS. CO., Baltimore, Md., a corporation of Maryland. Re-renewed July 31, 1946. Class 40.

55,284. **BLUE RIBBON.** WHISKY. Registered Aug. 14, 1906. EMINENCE DISTILLERY CO., St. Paul, Minn. Renewed Aug. 14, 1946, to Bernheim Distilling Company, Louisville, Ky., a corporation of Kentucky. Class 49.

55,866. **W & W.** ALL KINDS OF SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Aug. 21, 1906. WHEELER & WILSON MANUFACTURING COMPANY, Bridgeport, Conn. Re-renewed Aug. 21, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

55,999. **WHEELER & WILSON M'F'G CO.** ALL KINDS OF SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Aug. 21, 1906. WHEELER & WILSON MANUFACTURING COMPANY, Bridgeport, Conn. Re-renewed Aug. 21, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

56,109. **WHEELER & WILSON M'F'G CO. ETC, AND DESIGN.** ALL KINDS OF SEWING-MACHINES AND THEIR PARTS AND ATTACHMENTS. Registered Aug. 21, 1906. WHEELER & WILSON MANUFACTURING COMPANY, Bridgeport, Conn. Re-renewed Aug. 21, 1946, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Class 23.

184,167. **"JEWEL WATCH CO." AND DESIGN.** WATCH-CASES AND WATCH MOVEMENTS. Registered May 20, 1924. JEWEL WATCH CO., INC. Renewed May 20, 1944, to Norman Gelb, doing business as Jewel Watch Co., New York, N. Y. Class 27.

204,600. **"BAUSCHER CHINA" ETC. AND DRAWING.** CHINAWARE AND CROCKERY. Registered Oct. 20, 1925. ARTHUR SCHILLER & SON. Renewed Oct. 20, 1945, to Arthur Schiller & Son, Chicago, Ill., a corporation of Delaware. Class 30.

206,777. **"LAHER" AND DESIGN.** AUTOMOBILE BUMPERS. Registered Dec. 8, 1925. LAHER AUTO SPRING CO., INC., Portland, Oreg. Renewed Dec. 8, 1945, to Laher Spring and Tire Corporation, Oakland, Calif., a corporation of Oregon. Class 19.

206,846. **"PREP GIRL" ETC. AND DRAWING.** HOSIERY. Registered Dec. 8, 1925. THE JOHN M. GIVEN COMPANY, New York, N. Y., Chicago, Ill., and Pittsburgh, Pa. Renewed Dec. 8, 1945, to The John M. Given Company, New York, N. Y., a corporation of New York. Class 39.

207,928. **BUMPER.** RUBBER HEELS. Registered Jan. 12, 1926. ESSEX RUBBER COMPANY, Trenton, N. J., a corporation of New Jersey. Renewed Jan. 12, 1946. Class 39.

208,055. **"OLD DOC FORKOLA" ETC. AND DRAWING.** PREPARATION TO BE USED IN THE TREATMENT OF CROUP, COLDS, CATARRH, BRONCHITIS, SORE THROAT, COUGHS, WHOOPING COUGH, TONSILLITIS, ASTHMA, INCIPIENT PNEUMONIA, BITES, BOILS, BRUISES, BURNS, CHILBLAINS, CORNS, ECZEMA, ITCHING PILES, POISON IVY, MUSCULAR RHEUMATISM, SALT RHEUM, SCALDS, SPRAINS, STINGS, SUNBURN, ETC. Registered Jan. 19, 1926. THE BACORN COMPANY, Elmira, N. Y., a corporation of New York. Renewed Jan. 19, 1946. Class 6.

208,887. **NOVUTOX.** STERILIZING SOLUTION FOR LOCAL ANÆSTHESIA AND SURGICAL PURPOSES. Registered Feb. 9, 1926. ERICH SCHULZE, Hannover, Germany. Vested in the Alien Property Custodian, Washington, D. C. and renewed to him Feb. 9, 1946. Class 6.

209,003. **CALCO.** RECUPERATORS AND AIR HEATERS. Registered Feb. 16, 1926. THE CALORIZING COMPANY, Pittsburgh, Pa., a corporation of Delaware. Renewed Feb. 16, 1946. Class 34.

209,007. **GLYCINE.** WATCHES AND TIME PIECES, SPECIALLY POCKET WATCHES, WRISTLET WATCHES, RING WATCHES, NECKLACE WATCHES, JEWEL WATCHES, CLOCKS, MOVEMENTS, CASES, DIALS, AND PARTS OF WATCHES AND CLOCKS. Registered Feb. 16, 1926. FABRIQUE D'HORLOGERIE LA GLYCINE (LA GLYCINE WATCH FACTORY) (UHRENFABRIK LA GLYCINE), Bienne (Canton of Berne), Switzerland, a corporation of Switzerland. Renewed Feb. 16, 1946. Class 27.

209,129. **THE COUNTRY GENTLEMAN.** AGRICULTURAL JOURNAL ISSUED MONTHLY. Registered Feb. 16, 1926. THE CURTIS PUBLISHING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Feb. 16, 1946. Class 38.

209,187. **"THE SILVER KETTLE" ETC. AND DRAWING.** CANDIES. Registered Feb. 16, 1926. BREED AND BREED, Winchester, Mass., a firm. Renewed Feb. 16, 1946. Class 46.

209,301. **"OZONE" ETC. AND DRAWING.** STRAWBERRIES IN THEIR NATURAL STATE. Registered Feb. 23, 1926. PONCHATOULA FARM BUREAU ASSOCIATION, INC., Ponchatoula, La., a corporation of Louisiana. Renewed Feb. 23, 1946. Class 46.

210,070. **"SOLID KUMFORT" ETC. AND DESIGN.** FOLDING CHAIRS. Registered Mar. 9, 1926. LOUIS RASTETTER & SONS. Renewed Mar. 9, 1946, to Louis Rastetter & Sons Company, Fort Wayne, Ind., a corporation of Indiana. Class 32.

210,092. **"PALMER" ETC.** MEN'S AND YOUNG MEN'S SUITS. Registered Mar. 9, 1926. PALMER CLOTHING MANUFACTURING COMPANY, Chattanooga, Tenn., a corporation of Tennessee. Renewed Mar. 9, 1946. Class 39.

210,432. **"RED SPOT POLAR" AND DRAWING.** PAINT ENAMELS; DRY, PASTE, AND READY-MIXED PAINTS; AND FINISHING MATERIALS—NAMELY, PAINTS, ENAMELS, AND VARNISHES FOR ALL KINDS OF FINISHING PURPOSES. Registered Mar. 16, 1926. RED SPOT PAINT & VARNISH COMPANY, Evansville, Ind., a corporation of Indiana. Renewed Mar. 16, 1946. Class 16.

210,622. **"HUG" AND DESIGN.** MOTOR TRUCKS. Registered Mar. 16, 1926. THE HUG COMPANY. Renewed Mar. 16, 1946, to The Hug Company, Highland, Ill., a corporation of Delaware. Class 19.

211,368. **ELITE.** COLD CREAM, CLEANSING CREAM. Registered Apr. 13, 1926. DR. C. H. BERRY COMPANY. Renewed Apr. 13, 1946, to Kremola Company, Inc., Chicago, Ill., a corporation of Illinois. Class 6.

211,543. **"BÜRKI" ETC. AND DRAWING.** CHEESE. Registered Apr. 13, 1926. BÜRKI & CIE., Bern, Switzerland, a firm. Renewed Apr. 13, 1946. Class 46.

211,893. **"HOWARD" AND DESIGN.** TELEPHONE PLUGS, RHEOSTATS, POTENTIOMETERS, SWITCHES, AND INDUCTANCE SWITCHES. Registered Apr. 20, 1926. HOWARD RADIO COMPANY. Renewed Apr. 20, 1946, to Howard Radio Co., Chicago, Ill., a corporation of Illinois. Class 21.

213,383. **PIONEER.** STEEL BLOCKS, DISKS, BARS, AND FORGINGS. Registered May 25, 1926. JULIUS UIHLEIN, doing business as Julius Uihlein & Company. Renewed May 25, 1946, to Julius Uihlein & Company, Cincinnati, Ohio, a firm. Class 14.

213,881. **TRUE BLUE.** INNER TUBES OF RUBBER FOR PNEUMATIC TIRES. Registered June 8, 1926. THE INDIA TIRE AND RUBBER COMPANY, Mogadore and Akron, Ohio. Renewed June 8, 1946, to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Class 35.

214,004. **"BLACK KNIGHT" AND DRAWING.** CHINA. Registered June 8, 1926. GRAHAM & ZENGER, INC. Renewed June 8, 1946, to Clarence Levy, New York, N. Y. Class 30.

214,078. **VELVÂTISSUE.** TOILET PAPER, SANITARY TOWELING, AND CRÊPE PAPER, PAPER NAPKINS, AND TABLECLOTHS. Registered June 15, 1926. INTERLAKE TISSUE MILLS CO. LTD., Merriton, Ontario, Canada. Renewed June 15, 1946, to Interlake Tissue Mills Co. Limited, Toronto, Ontario, Canada, an organized company of Canada. Class 37.

215,176. **WHITE ROSE.** FINGER RINGS. Registered July 13, 1926. JOSEPH L. HERZOG & Co. Renewed July 13, 1946, to Henry A. Gochman, New York, N. Y. Class 28.

215,415. **"BPM" ETC.** SMOKERS' ARTICLES—VIZ, PIPES. Registered July 20, 1926. EDGAR B. WALTERS ORGANIZATION INC., New York, N. Y., a corporation of New York. Renewed July 20, 1946. Class 8.

215,420. **REPRESENTATION OF AN OBLONGLY HEXAGON OF CONCAVE LINES.** COOKS' FORKS, ICE PICKS, ICE CUTTERS, ALUMINUM BUTTER SPADES, BUTTER TROWELS, BUTCHERS' SAWS AND BLADES, PORK-PACKERS' SAWS, KITCHEN SAWS AND BLADES, BUTCHERS' BLOCK SCRAPERS, HOG SCRAPERS, GROCERS' SCOOPS, CONFECTIONERS' SCOOPS, ICE SCOOPS, COFFEE SCOOPS, HAND SCOOPS, HAM STRINGERS, FISH SHEARS, MEAT-TAG FASTENERS, ROAST-BEEF TIERS, CANDY HATCHETS, FISH SCALERS, BAG FILLERS, BARREL HOOKS, CLEAVERS, BUTCHERS' BLOCK PINS, SHARPENING STEELS, AND OTHER CERTAIN NAMED TOOLS AND CUTLERY. Registered July 20, 1926. JOHN CHATILLON & SONS, New York, N. Y., a corporation of New York. Renewed July 20, 1946. Class 23.

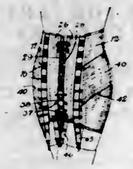
215,454. **"BOBBY'S BOW" ETC.** KNITTED NECKTIES AND KNITTED SCARFS. Registered July 20, 1926. EMIL GLICK, Cleveland, Ohio. Renewed July 20, 1946. Class 39.

215,501. **VERDELITE.** ELECTRIC DESK AND TABLE LAMPS. Registered July 20, 1926. FARIES MANUFACTURING COMPANY, Decatur, Ill., a corporation of Illinois. Renewed July 20, 1946. Class 21.

215,504. **REPRESENTATION OF AN OBLONGLY HEXAGON OF CONCAVE LINES.** DYNAMOMETERS, THERMOMETERS, BEAM SCALES, EVEN-BALANCE SCALES, AND SPRING SCALES. Registered July 20, 1926. JOHN CHATILLON & SONS, New York, N. Y., a corporation of New York. Renewed July 20, 1946. Class 26.

215,814. **"F" AND STAR DESIGN.** FRESH FRUITS—NAMELY, PEACHES, PEARS, PLUMS AND APPLES. Registered July 27, 1926. FENNVILLE FRUIT EXCHANGE, INC., Fennville, Mich., a corporation of Michigan. Renewed July 27, 1946. Class 46.

22,773
CORSET
Joseph J. Kispert, Mount Carmel, Conn.
Original No. 2,367,875, dated January 23, 1945, Serial No. 447,202, June 16, 1942. Application for reissue October 31, 1945, Serial No. 625,935
5 Claims. (Cl. 2—27)

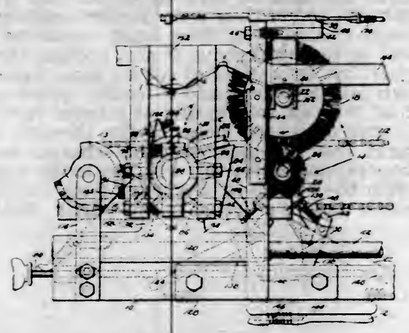


1. A corset opening at the front, including a back member, side members having reinforced front edge portions and being provided above the wearer's groin line with a series of spaced apertures and therebelow with a series of spaced eyelets, said apertures and eyelets being positioned within the width of the reinforced front edge portions of said side members, inner vest sections provided with complementary disengageable fastening devices, outer flaps overlying the vest sections and provided at their upper portions with lacing hooks and at their lower portions with eyelets, each of said outer flaps being connected to the vest section underlying it at a portion above the groin line by a series of spaced tapes passing through said apertures and extending across the width of the vest section and at a lower portion by a series of spaced laces passing through the eyelets in said side members, and separate laces for cooperation respectively with the lacing hooks and with the eyelets on the outer flaps whereby the corset may be adjusted to the wearer's figure.

PATENTS

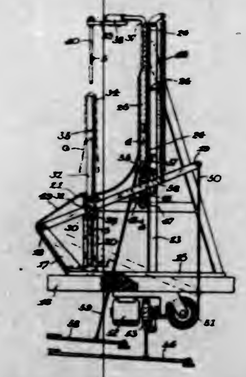
GRANTED JULY 23, 1946

2,404,345
COUNTER PASTING MACHINE
Charles Martin Bagshaw, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 27, 1944, Serial No. 542,281
In Great Britain July 30, 1943
26 Claims. (Cl. 12—80)



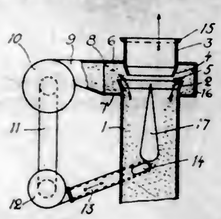
1. In a machine for coating a piece of work, a work carrying holder supported for movements of translation, an applicator, means for effecting relative movement of translation between the work holder and the applicator to apply a coating progressively along a piece of work held in the work holder, and means for increasing the pressure between the work and the applicator during at least a portion of the time of contact between the work and the applicator.

2,404,346
GLOVE TURNING APPARATUS
Roy E. Bartimore, Milwaukee, Wis.
Application September 25, 1944, Serial No. 555,694
5 Claims. (Cl. 223—40)



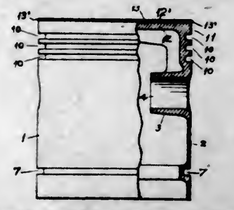
1. Apparatus for turning gloves and the like, comprising an open-ended reciprocatory tubular member adapted to receive thereover a flexible sheath to be turned, a reciprocatory inverting member adapted to enter said tubular member for urging the sheath thereinto upon relative longitudinal movement of said members, means for guiding the relative movement of said members, and means operatively connecting said members for retracting said tubular member during the inverting operation at a rate of travel approximately one-half the rate of travel of said inverting member.

2,404,347
APPARATUS FOR CLEANING OF FLUE GASES
Tom Conrad Bléth, Goteborg, Sweden
Application November 7, 1944, Serial No. 562,302
In Sweden December 18, 1939
4 Claims. (Cl. 183—34)



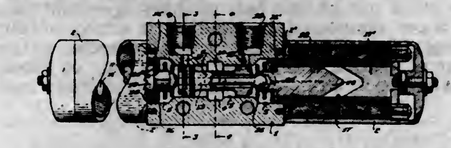
1. An arrangement for removing solid particles, particularly dust, from the flue gases in a chimney, comprising a concentrator consisting of a frustrum shaped shell along the inside of which is formed a concentrated dust film, said concentrator forming part of the chimney and being provided with a circumferential slit opening at one end of the concentrator shell, said slit being surrounded by a channel connected to a separate dust collector for removing the dust from said dust film, said dust collector being connected to means for sucking out the cleaned gas and forcing the same back again to the concentrator at a point located in front of said slit, seen in the direction of flow of the flue gases through the chimney, said cleaned gas entering tangentially into the concentrator shell to set the flue gases in rotation for obtaining said concentrated dust film.

2,404,348
INTERNAL-COMBUSTION ENGINE PISTON
Landon B. Boyd, La Porte, Ind.
Application December 30, 1943, Serial No. 516,134
4 Claims. (Cl. 123—193)



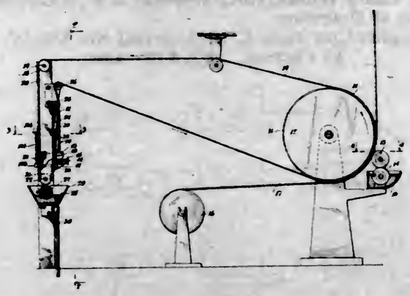
1. An internal combustion engine piston having a copper metal layer forming a heat reflector at its head, and fastened thereon by a ferrous metal plate secured to the head deck of the piston and having a lesser heat conduction factor than the heat conduction factor of the copper for reflecting back into the combustion spaces heat caused by combustion of fuel in said combustion spaces.

2,404,349
VALVE
Walter R. Brant and Harvey G. Chapman, Jr., Glendale, Calif., assignors to Adel Precision Products Corp., a corporation of California
Application November 29, 1944, Serial No. 565,718
3 Claims. (Cl. 137—139)



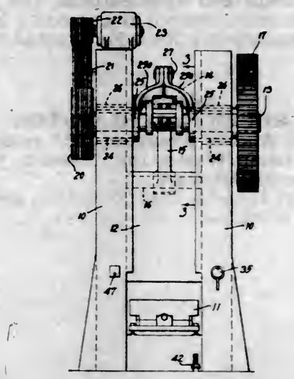
1. A flow-reversing valve of the character referred to including a valve body having a valve chamber therein with ports for connecting a source of operating fluid under pressure to move through said valve chamber to and from a place of use, a hollow valve of the spool type operable in said valve chamber for controlling the flow of operating fluid therethrough, a solenoid connected with each end of said valve chamber, an armature in each solenoid and operable through the closed juncture between the ends of the valve chamber and said solenoids, a connecting rod from one armature to the other through said hollow valve, and a coiled spring interposed between each armature and the adjacent end of said valve for normally pressing them apart.

2,404,350
CONTINUOUS METHOD OF PRINTING TEXTILES AND THE LIKE AND APPARATUS THEREFOR
Viggo Carlsen, Norwich, Alwin Heinrich, Taftville, and Dona L. Ballou, Jewett City, Conn., assignors to The Aspinook Corporation, Jewett City, Conn., a corporation of Delaware
Application December 16, 1943, Serial No. 514,448
16 Claims. (Cl. 101—423)



1. A continuous method of printing textiles and the like comprising feeding printing ink to printing means having a maximum effective ink-applying width to define the width of a printing area, passing over a rotating press cylinder a loop of an elongated endless backing blanket having a substantially moisture-impervious outer surface which is wider than the maximum effective ink-applying width of said means, printing an elongated strip of material by feeding it between said printing means and said loop of said backing blanket and thereby defining a printing area in an inner zone of the outer surface of said blanket and substantially ink-free flanking margins, separating the printed strip of material from said blanket and guiding the latter to and through washing means, washing with washing fluid the ink-smeared printing area of the outer surface of said blanket as the latter moves along while restricting the wetting of the outer surface of said blanket substantially to the inner zone inclusive of the printing area thereby retaining substantially dry margins flanking the washed area, removing almost all of the washing fluid from the washed area of said blanket without wetting at least the outer portions of the dry margins thereof, and moving the moisture-surfaced blanket substantially directly back to said press cylinder with a retention of a very small amount of moisture in the wetted area for promotion of the printing operation.

2,404,351
FORGING PRESS
Harold N. Anderson, Rocky River, Ohio
Application May 28, 1943, Serial No. 488,806
10 Claims. (Cl. 78—39)



1. In a press of the type comprising a pair of coacting platens at least one of which is movable relative to the other in a substantially linear stroke movement, a rotatable shaft, an operative connection between said movable platen and said shaft including a connection eccentric with said shaft, and means operable by movement of the press for varying the eccentricity of said connection relative to said shaft.

2,404,352
THERMOSTATIC OVERLOAD RELAY
George C. Armstrong, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 7, 1944, Serial No. 517,307
8 Claims. (Cl. 200—122)

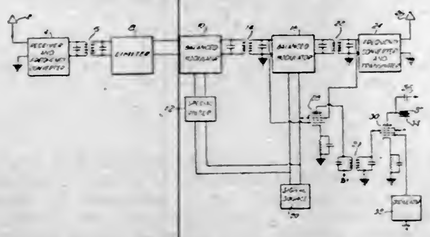


1. A relay comprising a shaft member and a helical spring member revolvable relative to each other, said spring member being coaxially seated on said shaft to grip it normally in order to prevent relative revolution in one direction, a movable and spring biased relay structure connected with one of said members so as to be retained, when in proper position, in opposition to its spring bias, and electric means for causing said spring member to expand radially in order to release said shaft so as to permit said structure to move under its bias.

2,404,353
REMOVABLE COATING COMPOSITION
Harry K. Ash, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application July 28, 1943, Serial No. 496,473
5 Claims. (Cl. 106—189)

1. A lacquer which will deposit a permanently strippable film of at least 1 mil thickness in a single application, which film can be stripped from a sheet of cellulose acetate thermoplastic without injury thereto, consisting essentially of a binder and a solvent, the binder consisting essentially of ethyl cellulose of 10 centipoise viscosity and approximately 47% ethoxy content, plasticized with from about 25 to 50% of its weight of plasticizer, the solvent consisting entirely of alcohols and hydrocarbons, the lacquer being further characterized by a viscosity between 50 and 200 seconds in a No. 4 Ford cup at 70° F.

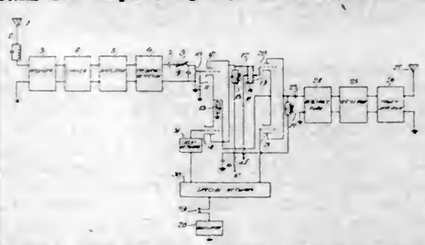
2,404,354
SECRET SIGNALING SYSTEM
Carl Edward Atkins, Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application June 16, 1943, Serial No. 490,986
10 Claims. (Cl. 250—6)



1. In a station-to-station secret communication system of the type wherein secrecy is obtained by simultaneous frequency modulation of the communicating carriers, an improved detector at each station comprising in combination a multi-electrode tube having at least two control grids and an anode, an output circuit connected to said anode, said tube being arranged to deliver energy to said circuit of a frequency equal to the sum of the frequencies of the excitation voltages applied to the control grids, and means connecting the control grids of the tube at one station with energized elements of the equipment at the same station where the frequency of the energy is effected equally and oppositely by locally introduced frequency modulation and effected equally and in the same direction by frequency modulation introduced at the other station whereby the frequency of the energy in the output circuit of the detector of one station is effected only by frequency modulation introduced at the other station.

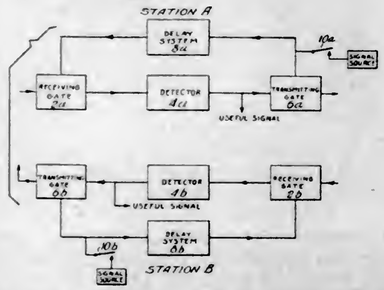
2,404,355
SECRET SIGNALING SYSTEM
Carl Edward Atkins, Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application October 2, 1943, Serial No. 504,679
9 Claims. (Cl. 178—22)

1. A secret station-to-station signaling system comprising in combination equipment at each station including receiving means, detecting means connected to receive energy from said receiving means, a pair of electron tubes connected in tandem, a phase-shift network between said detecting means and the control grid of one of said tubes, signal introducing means, means for creating a delayed replica with shifted phase of the signal introduced by said introducing means and for applying the same to the control grid of the other one of said pair of tubes, a second pair of tubes connected in tandem, a tuned output circuit for said first pair of tubes connected to the control grid of one of said second pair of tubes, means for impressing signal energy from said



said signal introducing means to the control grid of the other one of said second pair of tubes, transmitting means and means for modulating the energy transmitted by said transmitting means by the output from said second pair of tubes whereby said first pair of tubes may be operated as a cancellation mixer to cancel from the incoming energy at one station energy corresponding to the signal previously introduced into the system at the same station and said second pair of tubes may be used to scramble the outgoing signal with the signal introduced at the other station.

2,404,356
SECRET SIGNALING SYSTEM
Carl Edward Atkins, Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application June 3, 1944, Serial No. 538,667
10 Claims. (Cl. 179—1.5)

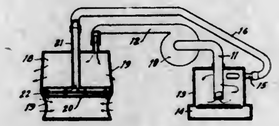


1. A secret station-to-station signaling system comprising in combination a receiving "gate" and a transmitting gate at each station, each of said "gates" having two input terminals and each adapted to pass energy when activated at either one of said terminals and to block the passage of energy when activated at neither of the input terminals or at both simultaneously, key means at each station connected to one of said input terminals of each of said gates for activation thereof, means interposed between said key means and the terminal of said receiving gate for introducing a time delay between operation of the key means and activation of the terminal of the receiving gate, a detector connected between said receiving gate and the other input terminal of said transmitting gate, and means at each station for transmitting energy passed by the transmitting gate to the other station for actuation of the other input terminal of the receiving gate at that station whereby the detector at each station can be made to respond only to signals initiated by the key means at the distant station.

2,404,357
COATED METHYL METHACRYLATE POLYMER
Max Fredrick Bechtold, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 25, 1943, Serial No. 507,591
9 Claims. (Cl. 117—65)

1. Process of providing a solid methyl methacrylate polymer with improved surface characteristics which comprises applying to a surface of said polymer a coating solution comprising ethyl silicate hydrolyzed with at least 15%, by weight thereof, of water, and a partially hydrolyzed vinyl acetate polymer in a proportion of 1 part, by weight, to 1–99 parts of ethyl silicate calculated as SiO_2, drying said surface, and heating said surface at elevated temperature while pressed against a rigid surface to cure the coating thus formed and bond same to said surface of said polymer.

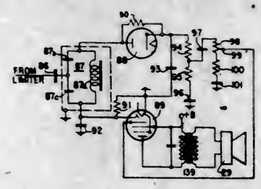
2,404,358
VACUUM CLEANING SYSTEM
Walter E. Bible, Denver, Colo., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 10, 1941, Serial No. 378,236
14 Claims. (Cl. 183—57)



1. A method of cleaning the porous wall of a filter chamber of a vacuum cleaning system comprising: passing air through a portion of said wall in one direction while simultaneously passing air through the remainder of said wall in the opposite direction, then simultaneously reversing the flow of air through the said portion and the said remainder of said wall.

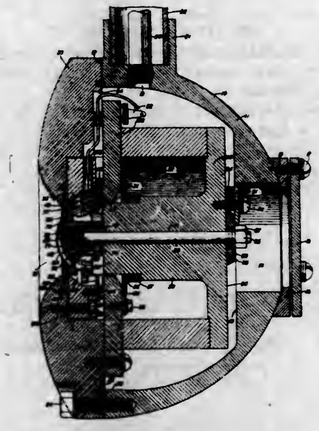
2,404,359
FREQUENCY DISCRIMINATOR
Marion E. Bond, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application June 11, 1943, Serial No. 490,467
7 Claims. (Cl. 250—27)

1. In a frequency discriminator network which is adapted to be excited from a voltage source of variable frequency, a pair of series connected condensers, a two-terminal adjustable inductance shunting said series connected condensers to tune said network to a particular center frequency, means including a first rectifying element for bridging one of said condensers across said source, means including a second rectifying element for bridging the other of said condensers across said source, load resistors respectively shunting said



rectifying elements, and means providing unequal capacitance across said rectifying elements to unbalance said network.

2,404,360
TUNABLE UNDERWATER SIGNAL SOURCE
Lee G. Bostwick, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 5, 1942, Serial No. 445,973
7 Claims. (Cl. 177—386)

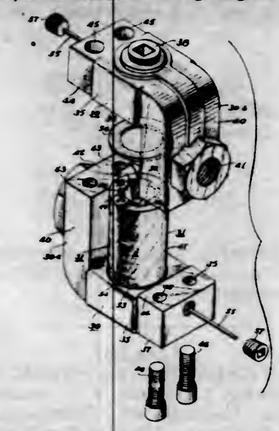


1. An electromechanical transducer comprising a moving system including a diaphragm and a coil attached to the periphery of the diaphragm for movement therewith, means attached to said diaphragm inside of the area limited by the peripheral attachment of said coil for tuning the moving system to different resonant frequencies, said means comprising a sheet metal member including a plurality of spring metal arms supported at one end only, and means to vary the extent to which each of said arms is effectively coupled to the diaphragm.

2,404,361
ROTAMETER
Nathaniel Brewer, Hatfield, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application April 27, 1943, Serial No. 484,710
11 Claims. (Cl. 73—209)

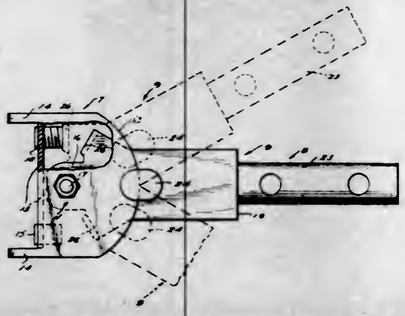
1. A rotameter comprising a vertical metering tube having a metering float adapted for free up-and-down movement therein, a pair of identical and interchangeable generally L-shaped elements constituting the end fittings as well as the frame for the metering tube, and means for detachably securing said elements directly to each

other in operative relation to the ends of the metering tube, said frame having aligned horizontal



openings therein whereby said rotameter can be connected directly within a horizontal pipe-line.

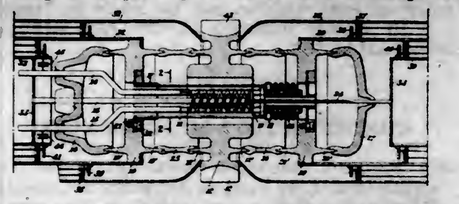
2,404,362
TRAILER HITCH
Charles N. Carlson, Glasgow, Mont., assignor of forty-five per cent to Albert L. Simpkins, Glasgow, Mont.
Application December 2, 1944, Serial No. 566,281
4 Claims. (Cl. 280—33.44)



1. As a new article of manufacture and as a component part of a trailer hitch of the class described, a fixture for attachment to a powering vehicle comprising a substantially rectangular box-like body embodying parallel side walls, a horizontal top wall, and an intervening partition between the side walls depending from said top wall, said side walls having rear extensions apertured to provide attaching ears, the forward edge of the top wall being formed into an arcuate guiding and assembling flange, a bolt mounted on the top wall to accommodate a coupler unit, and adjustable stops carried by the partition.

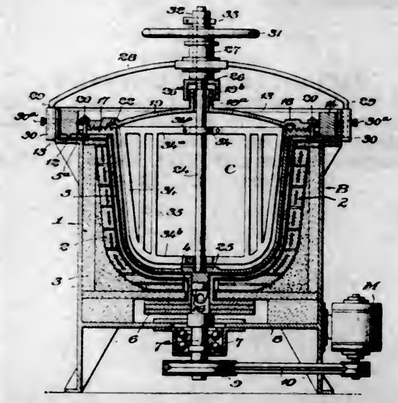
2,404,363
ELECTRON DISCHARGE DEVICE
Georges P. Chevigny, New York, N. Y., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware
Application March 16, 1942, Serial No. 434,914
6 Claims. (Cl. 250—27.5)

1. An ultra high frequency electron discharge device comprising concentrically mounted cathode, grid and anode electrodes, the anode being the outer of said electrodes, an evacuated envelope enclosing said cathode, said grid and a portion of said anode, an annular member of conducting material passing through a portion of said envelope on one side of said anode, a further annular member of conducting material passing through a portion of said envelope on



the other side of said anode, both said annular members being co-axially disposed with respect to said electrodes and conductively connected with said grid, and cavity resonator means extending across outer portions of said annular members and outer portions of said anode.

2,404,364
APPARATUS FOR RECOVERING METALS
Thomas B. Cooper, Philadelphia, Pa., and William H. Schulz, Weehawken, N. J., assignors to Cooper Development Company, New York, N. Y., a firm
Application July 24, 1942, Serial No. 452,210
6 Claims. (Cl. 266—37)

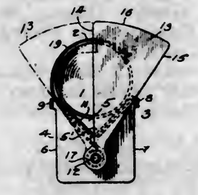


1. An apparatus for reclaiming white metals from dross including, a casing having a heating cavity, a cradle rotatably supported in said cavity, means for imparting rotary movement to the cradle, a receptacle having an upwardly and outwardly inclined side wall, said chamber closed to the atmosphere and removably fitted in said cradle and adapted to contain molten metal to be separated, an agitator mounted to rotate freely within the receptacle, and means for retarding the agitator relative to the rotation of the receptacle and the molten metal.

2,404,365
PRODUCTION OF FAT-SOLUBLE VITAMIN ESTER CONCENTRATES
Charles E. Dryden, East Orange, and Loran O. Buxton, Newark, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application September 28, 1944, Serial No. 556,284
10 Claims. (Cl. 167—81)

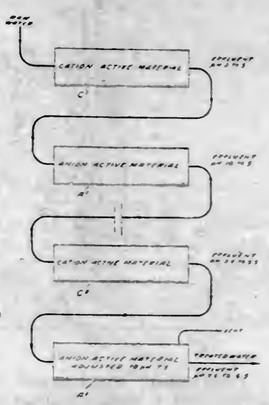
1. A process for the production of fat soluble vitamin ester concentrates from vitamin containing material of marine origin comprising partially saponifying while cooling the material so as to render a relatively large proportion of the material other than the vitamin ester and soap formed soluble in a polar solvent, separating the soap from the unsaponified residue and treating the unsaponified residue with a highly polar selective solvent which is characterized by being miscible with fat-soluble vitamin alcohols but immiscible with fat soluble vitamin esters to remove that portion of the residue soluble therein and produce a concentrate high in vitamin ester content.

2,404,366
MASKING ATTACHMENT FOR PHOTOGRAPHIC CAMERAS
Charles Hugh Duffy, Miami, Fla.
Application September 1, 1944, Serial No. 552,330
5 Claims. (Cl. 95—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



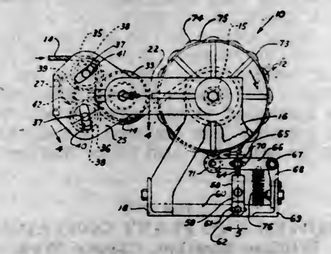
1. A device for masking the lens of photographic cameras which includes an attachment for centering the device on the lens barrel of a photographic lens, said centering attachment having one end cut away to provide a V-shaped formation, a flange formed at the V-shaped formation for engagement with the lens barrel of a photographic lens to correctly center the same on the lens barrel, a pin on the centering attachment extending outwardly on each side of the centering attachment, said pin being positioned on a line passing vertically through the apex of the V formation and bisecting the same, a leaf spring pivotally mounted on said pin on the rear side of the centering attachment for engaging the top surface of the lens barrel to retain the centering attachment in operative position thereon and a flat masking element pivotally mounted on the pin on the front side of the centering attachment, said masking element extending upwardly from its pivotal point and adapted to swing on its pivotal pin in front of a camera lens assembly to which it is attached, the two side edges of the pivoted masking element being formed substantially on radial lines of a circle of which the pivotal pin is the center and two stops on the centering attachment for limiting the movement of the masking element on its pivotal pin, each of said stops being located in such relation to the masking element as to position one edge of the masking element on a line passing substantially through the center of a camera lens when the masking element is in contact with one of said stops, and to position the other edge of the masking element on a line passing substantially through the center of the camera lens when the masking element is in contact with the other of said stops, whereby substantially each half of the lens may be successively masked and unmasked.

2,404,367
WATER PURIFICATION
Walter W. Durant, Old Greenwich, and William A. Blann, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application October 7, 1942, Serial No. 461,094
6 Claims. (Cl. 210—24)



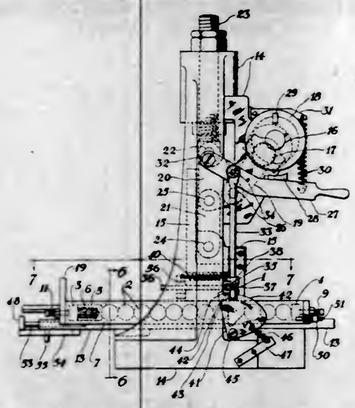
1. In a process of purifying water, the steps which comprise passing water containing less than about 20 P. P. M. of total solids through a hydrogen zeolite and then through an anion active material which has been treated with a reagent to adjust the pH of effluent water flowing from said anion active material to about 7.5, said reagent being an aqueous solution of a carbonate and a bicarbonate and having a pH of about 7.5.

2,404,368
WINCH
Gladden H. Esch, Dearborn, Mich.
Application July 28, 1944, Serial No. 547,092
12 Claims. (Cl. 242—158)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. A device for level winding a cable on a drum comprising a cylinder element and a piston element, one of said elements being fixed and the other being reciprocable relative thereto, a cable fairlead movable in accordance with the reciprocation of the reciprocable element, a positive displacement hydraulic pump, a hydraulic conduit between said pump and said cylinder element, a cam for actuating said pump, said cam being movable in timed relation to the rotation of the drum to move said reciprocable element and the cable fairlead to level wind the cable on the drum, and means for adjusting the stroke of said pump to change the rate of movement of the cable fairlead relative to the rate of rotation of the drum.

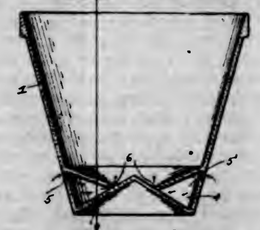
2,404,369
INDEXING MECHANISM
Harry Clark Foster, Alton, Ill., assignor to Olin Industries, Inc., a corporation of Delaware
Application July 14, 1944, Serial No. 544,983
10 Claims. (Cl. 100—70)



1. A work positioning mechanism comprising a roller element and a cam element, said roller element having a series of laterally contiguous rollers held in a channel at one end of the series by a stop and at the other end of the series by a resilient member, said cam element being adapted for insertion between adjacent rollers to change the relative positions of said elements upon each insertion of said cam element, one of said elements being drivingly connected to a work carrying member, and the other of said elements being connected to a tool supporting member.

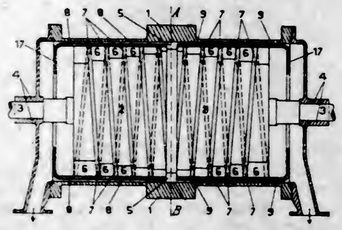
7. In a press having a tool carrying member and a work carrying member the combination comprising a roller element having a series of laterally contiguous rollers held in a channel at one end of the series by a stop and at the other end of the series by a resilient member, a cam element adapted for insertion between adjacent rollers to change the relative positions of said elements upon each insertion of said cam element, one of said elements being drivingly connected to said work carrying member, the other of said elements being connected to said tool supporting member, means preventing starting of said press while said work carrying member is out of starting position, and means for automatically stopping the operation of said press when said work carrying member has traveled the distance provided for by said cam and roller members.

2,404,370
FLOWER AND PLANT CONTAINER
William Fowlkes, Casper, Wyo.
Application August 11, 1943, Serial No. 498,237
1 Claim. (Cl. 47—34)



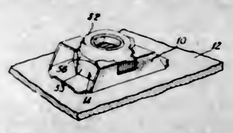
A flower pot comprising a downwardly tapering hollow body of inverted frusto conical form open at the top and having an imperforate conical bottom wall, the lower outer edge of the bottom wall merging with the bottom edge of the body, a false bottom wall of inverted frusto conical form integral with and extending inwardly and downwardly from the lower portion of the body at a point spaced above the outer edge of the conical bottom wall and the lower edge of the body, the inner edge of said false bottom wall joining with the conical bottom wall adjacent to but below the apex of the latter so as to define an annular chamber of triangular cross section between the false bottom and the outer portion of the conical bottom and the lower portion of the body, said false bottom having an annular series of openings therein at the juncture thereof with the conical bottom to afford communication between the space within the body above the false bottom and said annular chamber, the body having a circumferential series of openings therein directly below the juncture of the false bottom with said body.

2,404,371
FLUID TURBINE
Alex Frederik George Glaser, Blimbing, Java, Netherlands East Indies; vested in the Alien Property Custodian
Application January 7, 1941, Serial No. 373,481
In the Netherlands January 31, 1940
1 Claim. (Cl. 253—67)



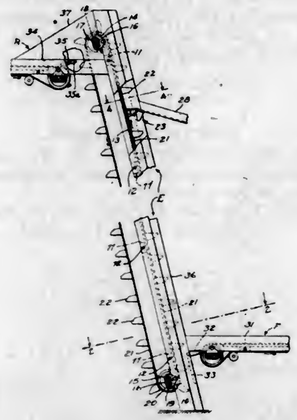
In a turbine, the combination of a hollow frame provided with bearings and fluid ports; a shaft rotatable in said bearings; two rotors mounted upon said shaft, and having spiral channels extending thereabout and opening toward said ports; and a sleeve cover mounted upon each rotor and covering said channels, the ends of the covers adjacent the ends of the frame being bent inwardly toward said shaft.

2,404,372
FASTENING DEVICE
Robert Lay Hallock, Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union, N. J., a corporation of New Jersey
Application August 13, 1943, Serial No. 498,570
23 Claims. (Cl. 85—32)



1. A basket member for attaching a fastening element to a body having an aperture, said member including means engaging said element to hold it in assembled relation with the basket member, means for penetrating the wall of said aperture to hold the basket member in assembled relation with said body and means for penetrating engagement with the surface of said body to restrain the basket member against rotation.

2,404,373
COMMODITY ELEVATING AND SAMPLING APPARATUS
Orman M. Harlow, Anaheim, Calif., assignor to Brogdex Company, Pomona, Calif., a corporation of California
Application August 2, 1943, Serial No. 497,026
15 Claims. (Cl. 73—421)



1. In a combined elevator and sampling apparatus particularly suitable for sampling plant products, the combination, with means for delivering at one level material to be sampled, means for removing at a higher level material which has been sampled, and means for receiving at an intermediate level samples which have been taken, of an endless bucket elevator mechanism comprising a plurality of elevator buckets constructed and arranged to be loaded by such delivering means and to discharge their respective contents only at said higer level to the means for removing material which has been sampled, said endless bucket elevator mechanism also comprising at least one tilting sampling bucket arranged to be loaded at the low level by the delivery means, and means at said intermediate level for tilting only such a sampling bucket to cause it to discharge to said sample-receiving means.

2,404,374
POLYFLUORINATED CYCLOPARAFFINS AND PROCESS FOR PRODUCING THEM
Jesse Harmon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 23, 1943, Serial No. 484,243
9 Claims. (Cl. 260—648)

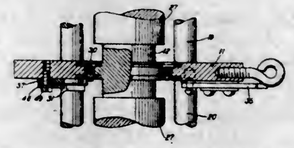
1. A process for preparing completely halogenated polyfluorocycloparaffins which comprises heating at a temperature of at least 125° C. a completely halogenated ethylene of the formula $CX_2{=}CX_2$ wherein X is halogen and at least 2 of the halogens are fluorine.

6. A volatile completely halogenated polyfluorocyclobutane of the formula

$$CX_2{-}CX_2{-}CX_2{-}CX_2$$
$$|_____|$$

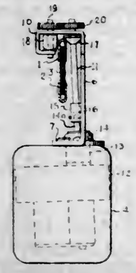
in which X is halogen and in which at least 4 of the substituent X are fluorine and at least 2 are halogen other than fluorine.

2,404,375
ELECTROMECHANICAL DEVICE
William R. Harry, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 15, 1941, Serial No. 415,013
6 Claims. (Cl. 177—386)



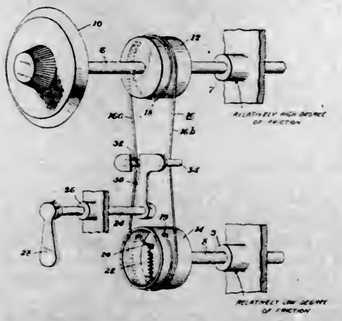
1. A microphone for use in a liquid wave transmission medium, comprising magnet structure providing a radial flux across an annular air-gap, a signal wave responsive element to be actuated directly by the signal wave disturbance in the medium and exposed on all of its surfaces to said medium, and means to mount said element for translational movement in said magnetic field, said element comprising an annular member having a peripheral channel containing a multiturn winding.

2,404,376
MONORAIL TROLLEY
George C. Henderson, Detroit, Mich.
Application October 18, 1944, Serial No. 559,207
13 Claims. (Cl. 46—216)



1. In a monorail trolley, a trolley wheel engageable with a rail, means resiliently holding said wheel normally engaged with said rail, and a spring latch element resisting escape of the wheel from the rail and manually flexible to afford such escape.

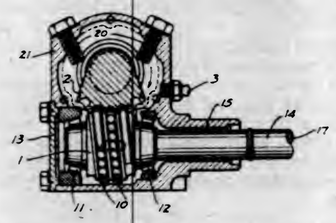
2,404,377
ADJUSTMENT DEVICE
John A. Herbst, Oradell, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application January 3, 1944, Serial No. 516,876
14 Claims. (Cl. 74—10)



1. A pair of rotatable shafts interconnected by

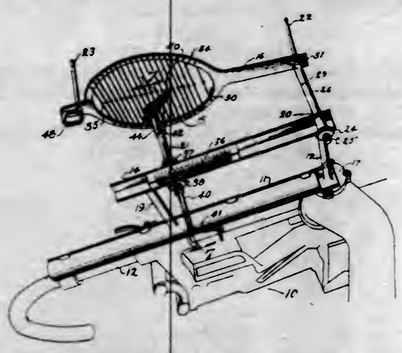
a belt-like driving element, means for relatively impeding the rotation of one shaft, means causing differential tensioning of two portions of the belt-like element between shafts to rotate the other shaft.

2,404,378
ANTIFRICTION WORM DRIVE
Henry S. Hoffar, Vancouver, British Columbia, Canada, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application August 1, 1944, Serial No. 547,579
16 Claims. (Cl. 74—458)



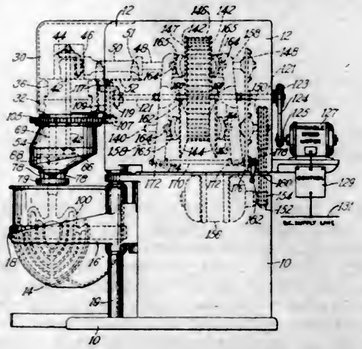
1. Antifriction worm and gear mechanism, comprising a gear having an inclined groove therein, a worm adjacent to said gear and having only a single helical groove therein complemental to the inclined groove of said gear, the spacing of the bottom of the worm groove from the worm axis being minimum substantially in an axial plane of said gear disposed perpendicular to the axis of said worm, and such spacing between the worm groove bottom and the worm axis increasing progressively away from such plane throughout a distance to each side of such plane not appreciably exceeding one-half a turn of the worm groove, and balls engaged closely by the grooves of said gear and worm.

2,404,379
SIGHT DIRECTOR
Jules James, United States Navy
Application September 22, 1941, Serial No 411,886
6 Claims. (Cl. 33—49)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



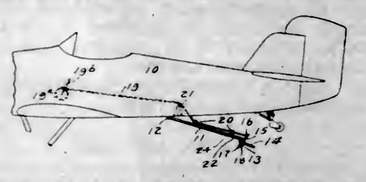
6. In a device for sighting a gun at a moving target, the combination comprising a sight member, pivot means for mounting said sight member on said gun for movement thereof in elevation and in train independently of movement of said gun to establish a line of sight from the gun to follow the target, means to establish a first vector, the magnitude of which is proportional to the assumed speed of the target and the sense of which is parallel to the direction of flight of the target, means to establish a second vector the magnitude of which is proportional to the average velocity of the projectile fired from the gun and the sense of which is parallel to the bore of the gun, and means for moving said gun in elevation and in train independently of movement of said sight member an amount determined by the vector relationship between said first and second vectors whereby the gun is offset angularly from said line of sight to compensate for the speed and direction of said target.

2,404,380
VERTICAL MIXER
Thormod Jensen, Laurelton, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application February 19, 1944, Serial No. 523,031
23 Claims. (Cl. 74—300)



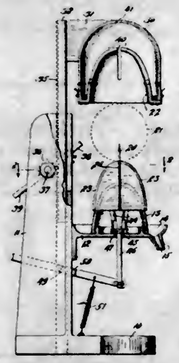
1. In a mixer, the combination with a support revoluble about a stationary axis, of a spindle adapted to support a beater and revolubly mounted in said support with its axis eccentric to the axis of rotation of said support, means for driving said spindle to revolve it on its own axis, mechanism for driving said support to revolve it on its axis of rotation and thereby move said spindle in an orbital path, a device for varying the speed at which said spindle is driven by said means without varying the speed of rotation of said support, and instrumentalities for varying the speed at which said support is driven by said mechanism without varying the speed of rotation of said spindle.

2,404,381
ARRESTING HOOK
Carl H. Jolly, United States Navy
Application June 20, 1932, Serial No. 618,256
6 Claims. (Cl. 244—110)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



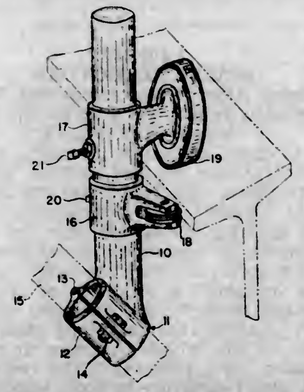
1. In a release mechanism for freeing an arresting hook suspended from an airplane from a transverse cable of a retarding gear, in combination, a hook, a yoked lever pivotally attached to the nose of the hook, guide rods pivotally attached to the sides of said yoked lever, actuating springs surrounding said guide rods, bearings for said guide rods and abutments for said springs located on the shank of said hook, and a cable operated from within the airplane for throwing said yoke upon hoisting of said hook.

2,404,382
FRUIT CUTTER AND SQUEEZER
Robert A. Klein, New York, N. Y., assignor of one-half to Abraham Kraus, Brooklyn, N. Y.
Application April 21, 1944, Serial No. 532,032
9 Claims. (Cl. 100—42)



1. A fruit squeezer comprising a conical base member, a concave member adapted to coact therewith to squeeze the fruit, means to move one member toward the other into operative relation thereto, and knives mounted on the base member and having their lower ends disposed above the lower end of the base member and intersecting at the axis of said base member and extending to a point above said base member for cutting the fruit prior to the squeezing operation, said concave member having slots for receiving said knives and allowing said knives to pass therethrough.

2,404,383
GUIDE WHEEL ARRANGEMENT
Hyman Kornblutt, Brooklyn, N. Y.
Application December 20, 1944, Serial No. 569,067
5 Claims. (Cl. 219—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



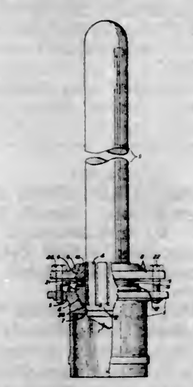
1. In a guide wheel arrangement for the travelling electrode of a welding machine the combination of a vertical guide wheel arm, a guide wheel vertically movable on said arm and mounted for rotation in a vertical plane, a guide roller vertically movable on said arm and mounted for rotation in a horizontal plane, and an electrode grasping means forming a part of the vertical guide wheel arm and adapted to grasp an electrode.

2,404,384
SELF-SUPPORTING PESSARY
Yervant H. Kurkjian, Clifton, N. J.
Application February 5, 1943, Serial No. 474,868
2 Claims. (Cl. 128—128)



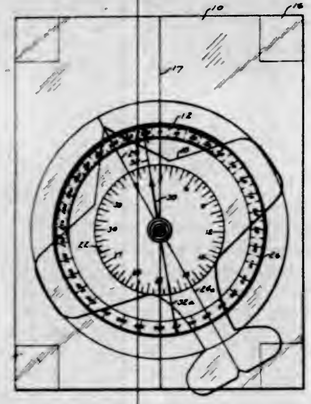
1. A pessary of the class described comprising a flexible body adapted to be inserted into the vaginal canal and adapted to engage the inner end of the canal at one point and also adapted to engage the upper wall of the canal at an opposite point just inside the entrance of the canal, and a supporting and removing means carried by the flexible body and adapted to protrude through the entrance of the canal and engage the body of the user exteriorly of the opening of the vaginal canal, the engaging points of the flexible body and the supporting means providing a three-point suspension for the pessary to hold the pessary against accidental displacement.

2,404,385
SPRING HOLDER FOR CANTILEVER ELEMENTS
Morris Fritts, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1942, Serial No. 457,208
7 Claims. (Cl. 287—119)



1. A spring mounting for shaft-like elements comprising a fixed member having a tapered socket or cavity for receiving one end of the element, a tapered member slidably included between the cavity surface and said element, a retaining member, and a concavo-convex spring washer included between said tapered member and said retaining member for maintaining the tapered member wedged between the element and cavity surface.

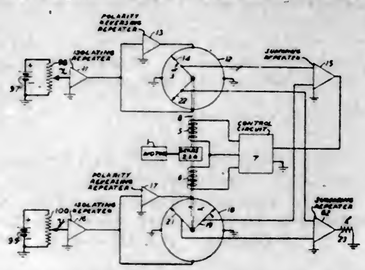
2,404,386
DEVICE TO AID TEACHING OF AUTOMATIC RADIO COMPASS
Joseph Levine, Brooklyn, N. Y., and Rondal E. Wells, Sheridan, Wyo.
Application March 22, 1945, Serial No. 584,224
1 Claim. (Cl. 35—39)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A device of the character described, which comprises a base, a pivot means extending from said base, an azimuth scale, graduated from 0 to 360 degrees, directly on said base concentric with said pivot means, a hairline on said base extending through 0 and 180 degrees of said graduation, a transparent image of an airplane slightly longer from nose to tail than the diameter of said azimuth scale and having a medial hairline extending from nose to tail and bearing means for rotation of said image about said pivot means located on said hairline, a facsimile of a radio compass dial smaller than said azimuth scale carried on said image concentric with said bearing means, a circular transparent runner of substantially the diameter of said azimuth scale having a diametral hairline, bearing means at the center of said runner for rotation of said runner about said pivot means, and a replica of a radio compass pointer carried on said runner and extending radially from said bearing means along said diametral hairline.

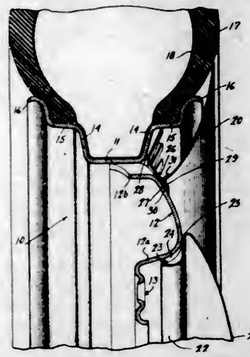
2,404,387
ELECTRICAL COMPUTING SYSTEM
Clarence A. Lovell and David B. Parkinson, Maplewood, N. J., and Bruce T. Weber, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1941, Serial No. 391,439
4 Claims. (Cl. 235—61)

1. In combination, resistance means to attenuate a first voltage in accordance with a sinusoidal function, wiper means to select an attenuated voltage corresponding to an angular value of said function, resistance means to attenuate a second voltage in accordance with a cosinusoidal function, wiper means to select an attenuated voltage corresponding to the same angular value of said function, means for obtaining the algebraic sum of said selected voltages means for comparing the sum of said voltages with a standard voltage and a device actuated by the deviation of said algebraic sum from said standard voltage to simultaneously adjust said selection points for successive angular values until said deviation is



reduced to zero and the position of the wipers indicates said angle.

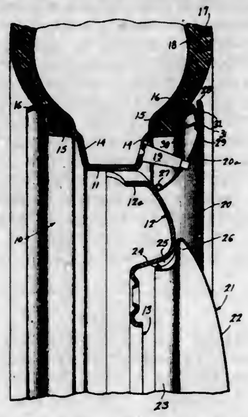
2,404,388
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application April 9, 1943, Serial No. 482,372
2 Claims. (Cl. 301—37)



1. In a cover assembly for disposition over the outer side of a wheel structure, an annular cover member and retaining means for securing the same to a wheel structure, said retaining means including a marginal portion arranged to be enveloped by the inner peripheral part of the cover member and abutment means struck from the body of the marginal portion of the retaining means to extend angularly therefrom and to engage a part of the cover member when the marginal portion of the retaining means is enveloped thereby.

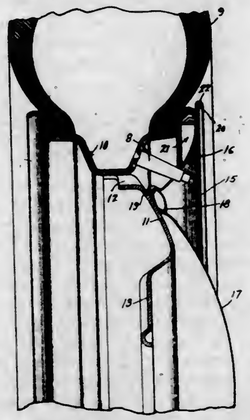
2,404,389
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application June 2, 1943, Serial No. 489,309
6 Claims. (Cl. 301—37)

1. In a wheel structure including a tire rim and a central load bearing portion, a cover assembly including a radially outer annular, locally resiliently flexible, self-sustaining, relatively frangible part for disposition over the outer side of an annular portion of the wheel structure, retaining means for securing the cover to the wheel structure including a plurality of circumferentially spaced resilient clip members arranged to flex with relative ease to afford attachment of the cover to the wheel structure and to resist with greater force removal of the cover member from the wheel structure by axial outward movement of the cover, said clips being joined together as an integral unit by an integral annulus arranged to be enveloped at least in part by the radially outer marginal portion of the cover and



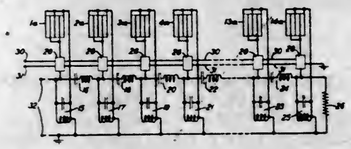
to reenforce that portion of the cover against breakage by receiving a pry-off tool during a pry-off operation.

2,404,390
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application June 21, 1943, Serial No. 491,604
12 Claims. (Cl. 301—37)



1. In a wheel structure including a multi-flanged rim for carrying a tire and having exposed flange surfaces adjacent the tire which are to be concealed, a wheel cover member of convex-concave cross-sectional shape and of a radial depth sufficient to conceal said flange surfaces, said cover member being made of a synthetic plastic material having the physical property of being self-sustaining and yet resiliently deflectable without permanent deformation, the outer edge of said member terminating radially beyond the rim and adjacent the outer side wall of the tire, and comparatively more rigid means made from material such as metallic sheet and the like for holding said member on the wheel, said means comprising a ring having a channeled outer edge in which the outer edge of the cover member is adapted to be disposed and retained, and having rearwardly deflectable resilient means for engaging an outer edge of the rim to the rear of the cover member for detachably holding the cover member thereon.

2,404,391
PRISMATIC AND HIGH POWER COMPRESSIONAL-WAVE RADIATOR AND RECEIVER
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 19, 1942, Serial No. 431,558
6 Claims. (Cl. 177—386)

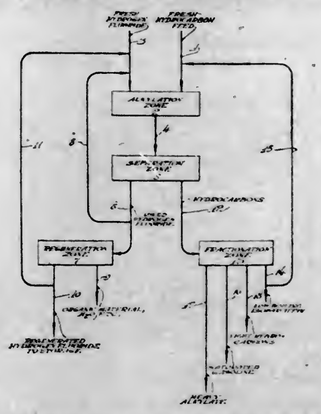


6. In a multifrequency compressional wave transmission system the combination of a plurality of electromechanical vibratory units, a plurality of sections of an electrical transmission medium connected in series relation and freely transmitting all frequencies of said system but imparting a different phase to each frequency thereof the number of said sections being at least equal to the number of vibrating units less one and means for connecting successive vibrating units at corresponding points of successive sections of said transmission medium whereby the directive properties of said combination will differ for each frequency of the system.

2,404,392
SYNTHETIC RUBBER AND PROCESS OF ITS MANUFACTURE
Alessandro Maximoff, Milan, Italy; vested in the Alien Property Custodian
No Drawing. Application July 16, 1938, Serial No. 219,604. In Italy July 19, 1937
1 Claim. (Cl. 260—86)

A process for the manufacture of synthetic rubber by polymerisation of butadiene 1.3 hydrocarbon, wherein said hydrocarbon is polymerised in admixture with vinylacetylene the same constituents being in an emulsion form during polymerization.

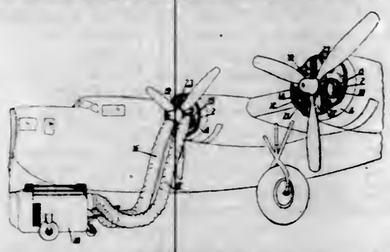
2,404,393
ALKYLATION OF PARAFFIN HYDROCARBONS
Harrison C. Mayland, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 24, 1942, Serial No. 452,122
6 Claims. (Cl. 260—683.4)



1. An alkylation process which comprises reacting an isoparaffin with an olefin in the pres-

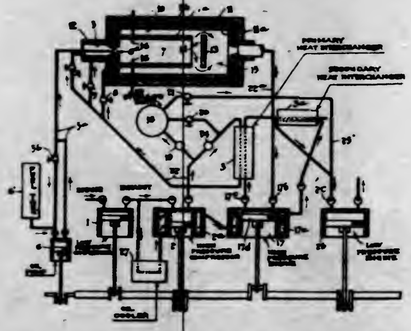
ence of a substantially anhydrous hydrogen fluoride catalyst, thereby forming a catalyst phase containing organic diluent of higher molecular weight than the alkylated isoparaffin, and controlling the accumulation of said organic diluent in the catalyst phase to maintain the hydrogen fluoride concentration of the catalyst phase within the range of from about 70 to about 85 weight percent.

2,404,394
HEATING SHIELD FOR ALL TYPES OF AIRPLANE ENGINES
Russell F. Miller, United States Navy
Application July 9, 1945, Serial No. 603,993
5 Claims. (Cl. 126—110)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



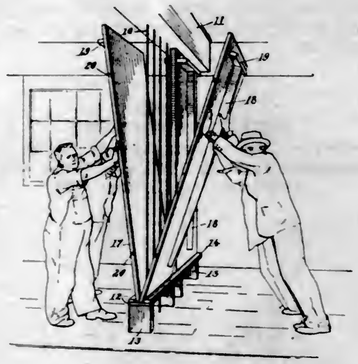
1. An aircraft engine shielding means for use in connection with engine heaters, comprising a sheet of material cut in the form of the airstream opening at the front of the engine cowling on which it is to be used and fitting over the propeller shaft by means of a cut away slot below the propeller shaft opening, means forming grooves along the sides of said slot, said sheet being formed of two parts, means hinging said parts together on the vertical axis above the propeller shaft opening, and a strip of sheet material fitted to slide in said grooves when the hinged parts are in place, to complete the closure of the airstream opening all around the propeller shaft, said shielding means having means forming shouldered openings for connection to heater tubes applied from the outside.

2,404,395
APPARATUS FOR CONVERTING HEAT ENERGY INTO USEFUL WORK
Humphreys Milliken, Mount Royal, Quebec, Canada
Application December 14, 1942, Serial No. 469,027
4 Claims. (Cl. 60—49)



1. Apparatus of the character described comprising a high pressure prime mover in which gas, which has been compressed to a relatively high pressure and heated externally of the prime mover, is expanded to produce power, a high pressure compressor for compressing the gas which is used as the motive agent in said prime mover, said compressor and prime mover being provided with cooling jackets, an auxiliary compressor for compressing air to a temperature and pressure lower than the temperature and pressure of the compressed gas delivered by the main compressor to said prime mover, means for passing compressed air from the auxiliary compressor through said cooling jackets and means whereby the compressed air delivered by said auxiliary compressor is expanded in the performance of useful work after passing through said jackets.

2,404,396
METHOD OF CONSTRUCTING WALLS
Patrick J. O'Connor, New York, N. Y.
Application August 9, 1944, Serial No. 548,671
6 Claims. (Cl. 25—154)

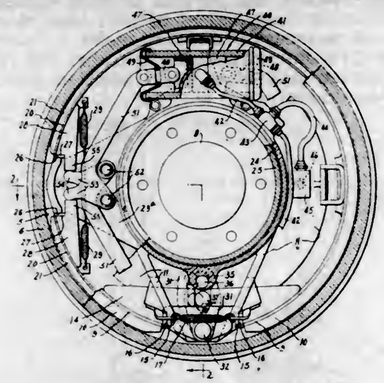


1. The method of constructing a wall of the character described which comprises disposing a series of aligned, vertical supports, in spaced relation, anchoring said supports at their upper and lower ends; forming a plurality of slabs of plaster material, disposing said slabs, while in plastic state, at opposite sides of said series of vertical supports, subjecting said slabs to pressure to force their opposing surfaces and their contiguous edges into intimate contact and enclosing said vertical supports, securing said slabs in position, and then permitting said slabs to set and solidify into a unitary continuous wall structure.

2,404,397
PRESSURE ACTUATED BRAKE MECHANISM
John George Oetzel, Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill., a corporation of Illinois
Application November 6, 1944, Serial No. 562,118
8 Claims. (Cl. 188—141)

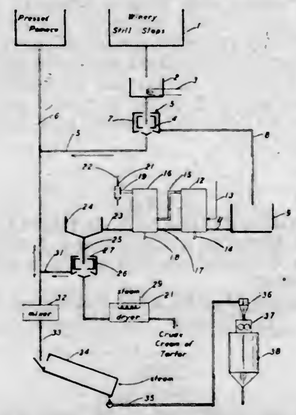
1. A brake mechanism having, in combination, two shoes arranged end to end with their pairs of ends spaced apart, an anchor member, abutment anchors for said shoe ends carried by said member, two pairs of bell-cranks respectively supported by circumferentially spaced pivots fixed relative to and carried by said anchor member adjacent said shoe ends, the bell-cranks of each pair having short arms engaging the ends of one pair of shoes and long arms extending circumferentially in opposite directions, two fluid

pressure cylinders stationarily mounted with respect to said anchor member, their axes extending parallel to each other between said pairs of shoe ends, two pistons in each of said cylinders



respectively connected to two of said long arms, and pressure fluid supply means communicating with the interior of said cylinders between the pistons therein.

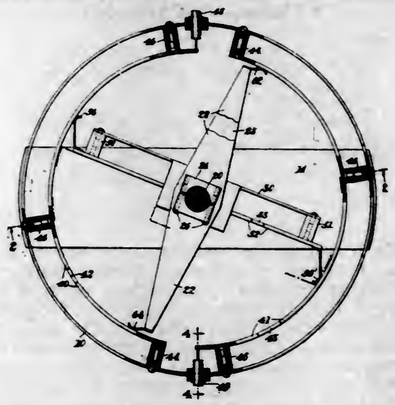
2,404,398
TREATMENT OF WINERY SLOPS
Ellis C. Pattee, Cincinnati, Ohio, assignor to National Distillers Products Corporation, a corporation of Virginia
Application March 29, 1943, Serial No. 480,919
6 Claims. (Cl. 99—5)



1. Process of obtaining usable by-products from winery residues, including winery still slops containing potassium acid tartrate which comprises evaporating said still slops, separating crystals of potassium acid tartrate therefrom, combining the residual evaporated still slops with pomace and drying the combined materials.

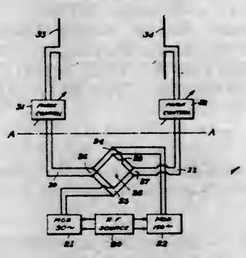
2,404,399
ADJUSTABLE TRANSMISSION LINE
Sidney B. Pickles, Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware
Application May 12, 1942, Serial No. 442,657
16 Claims. (Cl. 178—44)

1. A phasing unit comprising stationary arcuate segments of conductor material, a shield disposed adjacent said segments and forming therewith a length of line having a predetermined surge impedance, a rotatable member, conductor means movable with said member and having sliding engagement with said segments, and a



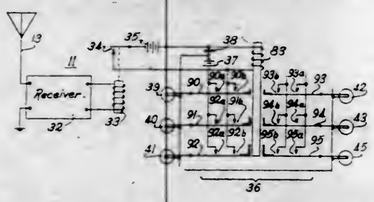
second shield disposed adjacent said conductor means and rotatable with said member said second shield forming with said conductor means a length of line having a surge impedance substantially equal to said first mentioned surge impedance.

2,404,400
RADIO BEACON
Sidney B. Pickles, Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application November 15, 1943, Serial No. 510,267
17 Claims. (Cl. 250—11)



1. A directive antenna system for producing a directive radiation pattern of a predetermined form, comprising at least two antenna means, a source of carrier energy modulated with a given signal, a source of sideband energy of said combined carrier and signal frequencies, first means for applying energy from said signal modulated carrier source to one of said antenna means, second means for applying said signal sideband energy to another of said antenna means, means for adjusting the relative phase of energy fed to said two antenna means to a desired value, and means for adjusting the effective electrical length of said two antenna means to produce the desired parasitic effect of said other antenna means with respect to said one antenna means, while maintaining said relative phase adjustment constant.

2,404,401
SIGNAL RECEIVING AND TRANSLATING APPARATUS
Alexander W. Plensler, Chicago, Ill., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application January 20, 1944, Serial No. 518,956
9 Claims. (Cl. 177—353)



1. In a system for receiving any one of a plurality of signals of different predetermined frequencies, a plurality of vibratory control reeds having different natural vibratory frequencies which respectively and substantially equal said predetermined frequencies, electromagnetic driving means common to said reeds and operative to develop reed driving impulses of any one of said frequencies when energized at said one frequency, whereby all of said reeds tend to vibrate upon initial energization of said driving means and the one reed corresponding to the one frequency is vibrated with greater amplitude than the remaining reeds, means responsive to a received signal for energizing said driving means at the received signal frequency rate, and means responsive to the resulting vibration of the particular reed, which corresponds to the signal frequency rate, at a predetermined amplitude of vibration for substantially continuously energizing said driving means for the duration of signal reception, thereby to hold said particular reed in an off-normal position.

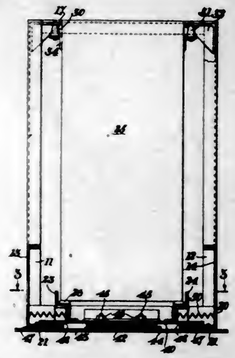
2,404,402
SKI RUNNER
Edward Porter, Akron, Ohio, assignor of two-twentieths to Alvin W. Larson, Akron, Ohio
Application July 23, 1943, Serial No. 495,907
8 Claims. (Cl. 280—28)



1. A ski unit comprising an elongated flat runner having an upwardly curved forward end, elongated elements resting upon the runner in abutting side by side relation and covering the major width of the runner, means holding the runner and elements in assembly, and a rib depending from the runner and extending lengthwise thereof, said rib starting at and progressively increasing in depth from the beginning of the curve of the forward end.

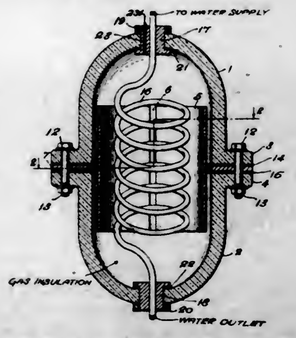
2,404,403
RADIO MOUNTING STRUCTURE
Michael C. Poyio, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J., a corporation of Delaware
Application February 13, 1943, Serial No. 475,718
10 Claims. (Cl. 248—358)

1. A shock and vibration resisting support for radio cabinets and the like comprising a cradle upon which a cabinet may be mounted, said cradle having a base member adapted to rest with frictional engagement upon a flat surface such as the deck of a ship, means to force said base member toward said surface thereby increasing the frictional engagement of said base member with said surface, and resilient means to bias said cradle from laterally directed forces for retention substantially in a given position with respect to said surface.



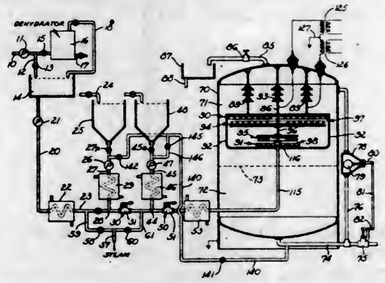
9. A shock and vibration resisting support for radio cabinets and the like comprising a cradle in which a cabinet may be mounted, said cradle having a base adapted to rest with frictional engagement upon a flat surface such as the deck of a ship, said base having an inwardly extending bottom flange, a member disposed with the peripheral edge portion thereof in overlying relation with the inner edge portion of the flange, means to secure said member to said deck so as to clamp said flange between the member and said deck, and vibration resisting means for said cradle comprising resilient elements disposed between said bottom flange and the bottom portion of said cabinet and other resilient elements between the top of said cabinet and the top portion of said cradle.

2,404,404
HIGH-FREQUENCY APPARATUS
Wesley M. Roberds, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1943, Serial No. 487,133
15 Claims. (Cl. 250—16)



5. A high frequency device comprising an insulating casing having a gas contained therein, flanges on said insulating casing, a transformer inductive member insulatingly supported within and by said casing, means passing through said inductive member for fluid cooling thereof, a second transformer inductive member inductively coupled to said first mentioned inductive member and having a flange member which is interposed between two flange portions of said insulating casing.

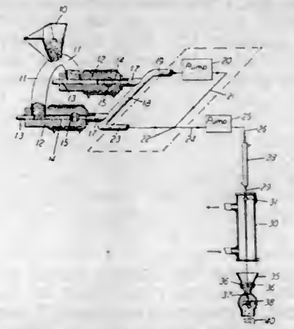
2,404,405
METHOD FOR REMOVING IMPURITIES FROM MINERAL OILS
Claudius H. M. Roberts, Palos Verdes Estates, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application December 16, 1939, Serial No. 309,590
4 Claims. (Cl. 204—190)



1. A process for removing water-dispersible impurities from a mineral oil of low or negligible water content, which process includes the steps of: adding relatively fresh water to said oil and mixing the added water and the oil in a first mixing step to form an oil-continuous dispersion containing the relatively fresh water in the form of droplets; later adding more relatively fresh water to said dispersion and mixing the later-added water and said dispersion in a second mixing step to disperse the later-added relatively fresh water into the oil-continuous dispersion in the form of droplets in the oil, said mixing steps being controlled in such manner that the droplets of the relatively fresh water later added are of an average size different from the droplets of the relatively fresh water first added to produce an emulsion containing different-sized droplets of the water suspended in the oil; subjecting said emulsion to the action of an electric field of sufficient intensity to coalesce the water to form coalesced masses comprising impurities from the oil; and separating the coalesced masses from the oil.

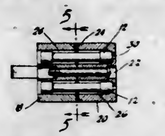
2,404,406
PROCESS FOR PLASTICIZING OR PLASTICATING PLASTIC MATERIALS
Fred M. Roddy, Providence, R. I.
Application March 3, 1942, Serial No. 433,118
1 Claim. (Cl. 18—48)

A continuous process for plasticizing discrete, dry, solid particles of a thermoplastic material having poor heat conductivity when in a dry solid state and having increased heat conductivity when in a highly heated plastic state, which process comprises continuously circulating a stream of the said thermoplastic material in a highly heated, semi-molten, plastic condition through a restricted passageway at a velocity sufficient to produce turbulent flow, continuously adding heat to said stream, continuously withdrawing a minor quantity of material from said stream at one point, maintaining said quantity substantially constant irrespective of variations in the viscosity of the material which may occur due to variations in the temperature of the material, and continuously forcing into said stream, at a point remote



from said point of withdrawal, a quantity of unheated, discrete, dry, solid particles of said thermoplastic material equal in volume to the said quantity of material withdrawn from the stream.

2,404,407
ELECTRIC FUSE CONNECTION PLUG
Bernard J. Seurynck, Detroit, Mich.
Application May 8, 1944, Serial No. 535,491
4 Claims. (Cl. 200—115.5)

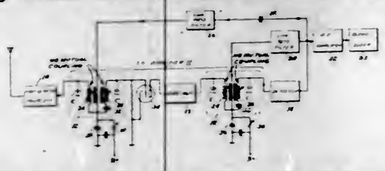


1. An electric connection plug comprising an insulation body formed of two end sections secured together in end-abutting relationship, said two sections provided with a pair of complimentary registering fuse receiving openings extending through both ends, a pair of fuses positioned within said openings bridging the joint between the abutting end sections, an insulation disc interposed between said end sections provided with openings registering with the fuse receiving openings, said two sections each provided with a pair of contact element receiving openings extending through both ends and terminating as to one section in female socket openings through its outer end, a pair of spring contact elements disposed one within each contact element receiving opening in one end section to form an electrical contact with a contact prong received therein and having a part forming an electrical contact with one fuse within the end section, a pair of spring contact elements disposed one within each contact element receiving opening in the other end section and having a part forming an electrical contact with one fuse within the end section and terminating in a spring contact prong projecting outwardly beyond the outer end of the end section.

2,404,408
RADIO RECEIVING APPARATUS
Archibald D. Smith, Jr., Amityville, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application October 19, 1943. Serial No. 506,793
6 Claims. (Cl. 250—20)

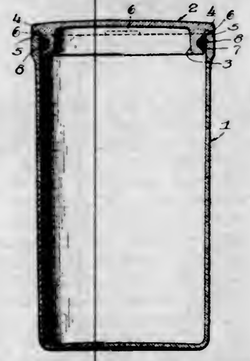
1. Radio receiving apparatus including, in combination, a high frequency amplifier having one or more relatively high frequency amplifying stages, each of said stages including input and

output direct capacitative coupling means, comprising a pair of uncoupled inductors having a common connection and a common condenser connecting said common connection to ground, an input circuit connected to said high frequency amplifier through the first said input coupling means, a detector connected to the output coupling means of said high frequency amplifier,



means connecting the output circuit of said detector to the common connection of one of said input coupling means of an amplifying stage, a signal reproducing device, a low-frequency pass filter, and means connecting said signal reproducing device to the common connection of an output coupling means following said one input coupling means through said low-pass filter.

2,404,409
CONTAINER
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application October 3, 1942, Serial No. 460,637
2 Claims. (Cl. 215—40)



1. In a container including a receptacle member and a closure member having overlapping parts, a substantially V-shaped groove provided in one of the parts and a substantially wedge-shaped resilient sealing ring carried in the groove and having a sealing face for sealing contact with the other part, the sealing ring having a reduced and rounded vertex and outwardly diverging sides disposed at an acute angle and the groove having a rounded base and outwardly diverging sides disposed at an angle substantially greater than the outwardly diverging sides of the sealing ring whereby the sealing ring is free to pivot within the groove and effectively seal the members against leakage.

2,404,410
BOTTLE CAP
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application October 3, 1942, Serial No. 460,638
2 Claims. (Cl. 215—40)

1. A bottle cap providing a closure for a bottle and having a threaded portion for engagement with threads on the exterior of the bottle, comprising a cap member having a centrally depressed portion adapted to extend into the neck of the bottle, an outwardly opening substantially V-shaped recess formed in the depressed portion, and a resilient sealing ring of substantially wedge-shape in cross section carried in the recess

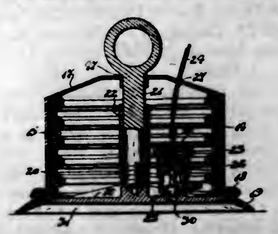


with its outer end rounded and adapted to have a sealing contact with the interior of the neck, the sealing ring having angularly arranged opposite sides normally spaced inwardly from the sides of the recess to permit the ring to pivot about its inner end and provide an effective seal whenever the cap is mounted on the bottle.

2,404,411
CHLORINATED MALEIC ANHYDRIDE ADDUCTS
Henry N. Stephens, Gilbert B. Gehrenbeck, and Donald R. Guthrie, White Bear Lake, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application September 25, 1940, Serial No. 358,368
5 Claims. (Cl. 260—22)

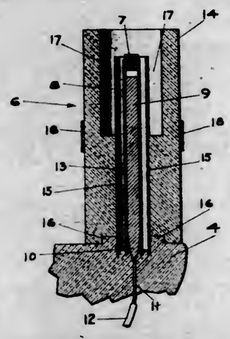
1. An acetone-soluble resinous glyceride of a chlorinated maleic anhydride-China-wood oil adduct, which said resinous glyceride will not form a liquid upon heating.

2,404,412
VACUUM CUP
Robert M. Stephens, Winnipeg, Manitoba, Canada
Application October 7, 1943, Serial No. 505,404
5 Claims. (Cl. 248—206)



1. A vacuum cup for attachment to surfaces, comprising in combination a longitudinally expansible and contractile tubular wall, a rigid tubular wall concentric with and adjacent to said first mentioned wall, a volume displacement wall lying at right angles to the tubular axis of said walls, said volume displacement wall being sealed to that perimeter of said inner wall which is adjacent said surface, for movement with said inner wall, said walls being also sealedly secured to each other at the mutually adjacent ends which are opposite to the surface-adjacent ends thereof, a gasket around the surface-adjacent end of one of said walls, and means for effecting simultaneous movement of said volume displacement wall and said inner wall connected thereto, to increase the tubular volume adjacent said surface.

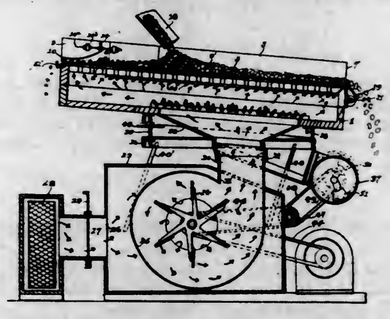
2,404,413
ELECTRICAL GASEOUS DISCHARGE DEVICE
Paul W. Statsman, Waltham, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application January 15, 1942, Serial No. 426,892
13 Claims. (Cl. 250—27.5)



1. An electrical space discharge device comprising an envelope containing an ionizable atmosphere at a pressure sufficiently high to produce substantial ionization upon the occurrence of a discharge therein, electrodes adapted to support an ionizing discharge through said atmosphere, a shield arranged about at least one of said electrodes, and a member having the characteristic of emitting vapor at substantially no greater rate than steatite at the operating temperature of said electrical space discharge device arranged about said shield, said member and shield being provided with openings therein to permit the passage of the discharge therethrough.

2,404,414
METHOD AND APPARATUS FOR REMOVAL OF HEAVY OBJECTIONABLE MATERIAL FROM CEREALS, LEGUMES, AND OTHER FOOD PRODUCTS
Henry M. Sutton, deceased, late of Dallas, Tex., by Frank E. Wood, executor, Dallas, Tex., assignor to Sutton, Steele & Steele, Incorporated, Dallas, Tex., a corporation of Texas
Continuation of application Serial No. 374,920, January 17, 1941. This application December 4, 1943, Serial No. 512,938
14 Claims. (Cl. 209—467)

1. An apparatus for separating from an intermixed mass of material made up of particles having different specific gravities the lighter particles from the heavy particles comprising, an elongated deck having its longitudinal axis disposed at an inclination to the vertical, means for rapidly and smoothly longitudinally reciprocating said deck to avoid imparting a jerking motion to an abrupt stoppage of movement of said deck, said deck being porous, means for forcing air upwardly through said deck, walls of considerable height extending upwardly from the longitudinal edges of said deck, a wall extending across the lower end of said deck and mounted for vertical adjustment to prevent the escape of material from the lower end of said deck until a bed of predetermined depth has been created on said deck, walls converging towards the center of said deck adjacent the upper end thereof and terminating in an outlet opening, walls extending from said outlet opening to provide an outlet passageway terminating in an open end at the upper edge of said deck, the bottom of said passageway being pervious for the upward passage therethrough of some of the air delivered for upward passage through the deck, a skimmer bar in said passageway and



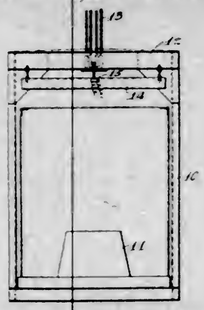
extending entirely there-across and being freely movable vertically in respect to the bottom of said passageway, and the bottom face of said bar being formed to direct the air which enters upwardly through the porous bottom of said passageway horizontally both outwardly and inwardly in respect to said passageway.

13. A process for pneumatically separating a mass consisting of heavy refuse particles and lighter particles by feeding said mass on a rapidly reciprocating wide pervious bed through which air is forced upward through said mass to cause the separation of part of said heavy refuse from the lighter particles, and separating the remaining unseparated heavy refuse particles by passing them through a transversely contracted passageway in respect to said wide bed and simultaneously forcing air upward in said passageway and causing the air to simultaneously flow in two directions within the passageway, one in the direction of the outlet end of the passageway to force said refuse out of the passageway and the other air inwardly within said passageway to force inwardly the lighter particles causing them to mix with said mass, whereby a clean mass of lighter products is the final result.

2,404,415
OVERLOAD SAFETY SWITCH FOR ELEVATORS
Floyd F. Turner, Toledo, Ohio, assignor to The Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio
Application June 24, 1943. Serial No. 492,117
1 Claim. (Cl. 187—29)

In an electric elevator apparatus, a car having a top cross member to which suspension cables are centrally attached, said member being attached at its ends to rigid car frame parts and being capable of flexing intermediate its ends to assume a longitudinal bow when the car is subjected to a predetermined overload condition, a second cross member fixedly connected at its ends

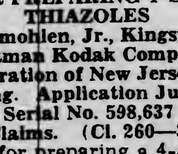
to the first member near the ends of said first member and remaining substantially rigid during flexing of the first member, and a normally closed micro switch in a circuit which must be closed for the elevator to operate, said switch being dis-



posed adjacent to the longitudinal center of said cross members and being operable by a flexing of the first cross member relative to the other under predetermined overload conditions to open the switch.

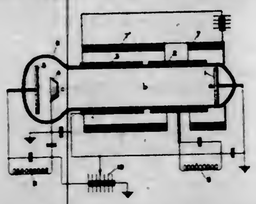
2,404,416
PROCESS FOR PREPARING 4-SUBSTITUTED THIAZOLES
William P. Utermohlen, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 9, 1945, Serial No. 598,637
12 Claims. (Cl. 260—302)

1. A process for preparing a 4-substituted thiazole comprising condensing a thioamide containing the —CS—NH_2 group with a dihalogeno ester of the following general formula:



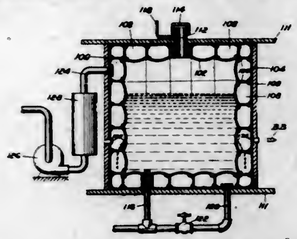
wherein R and R_1 each represents a member selected from the group consisting of alkyl, aralkyl and aryl groups and X represents a halogen selected from the group consisting of chlorine and bromine.

2,404,417
SECONDARY MULTIPLICATION POWER TUBE
Arthur A. Varela, Washington, D. C.
Application October 13, 1941, Serial No. 414,771
9 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



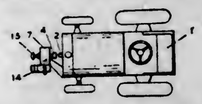
1. An electron discharge device comprising an evacuated envelope, a pair of emitter electrodes contained therein and spaced from each other, said electrodes having facing surfaces capable, upon impact by electrons, of emitting secondary electrons at a ratio to said impacting electrons which is greater than unity, a pair of cylindrical coils surrounding a line passing through the centers of said emitter electrodes, said coils being longitudinally spaced along said line and coaxial therewith, means impressing a potential on said coils whereby a magnetic field is formed along said line confining the flow of electrons between said electrodes to a path coaxial with said line, a confined field resonator surrounding a portion of said path and having an annular gap surrounding the portion of said path lying between said coils, and means producing radio frequency oscillations in said resonator, whereby a radio frequency field is formed in and around said gap, the characteristics of said field and the dimensions of said path being such that the transit angle with respect to said radio frequency of an electron travelling said path from said field to one of said electrodes plus the transit angle from said electrode to said field of an electron emitted by impact of said first mentioned electron upon said electrode, is 180°.

2,404,418
NONCOMBUSTIBLE FUEL TANK
Brooks Walker, Piedmont, Calif.
Application October 5, 1942, Serial No. 460,816
1 Claim. (Cl. 220—88)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In combination, a double-walled supply tank for supplying fuel to an engine, said tank having a highly flexible outer casing, an inner flexible self-sealing casing, said inner and outer casings being secured together by separating elements, said casings forming the top, bottom and side walls of said fuel tank, said outer casing having an opening connected to the exhaust of an engine, said bottom wall of said outer casing having an opening connected to the fuel supply of said engine to utilize fuel that may leak into the space between said casings, and means for supplying the exhaust gases to the space between the casings at pressures above the main exhaust pipe pressures and atmospheric pressure.

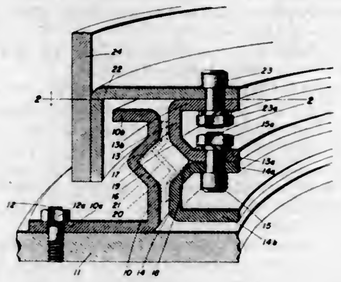
2,404,419
ENGINE STARTING APPARATUS
William G. Weatherly, Colfax, Wash.
Application June 24, 1944, Serial No. 541,976
1 Claim. (Cl. 123—179)



Engine starting apparatus comprising a housing, a train of gears rotatably mounted within the housing and driven by an electric motor carried on the exterior of the housing, a shaft slidably and yieldingly mounted through and beyond two walls of the housing and through one of the driven gears therein to be rotated thereby, a

clutch formed on the outermost end of the shaft for engaging the crank-shaft of an engine, means on its opposite end for slidably advancing said shaft and clutch into said engagement, said housing being slidable in a vertically mounted frame carried by an engine driven vehicle, an endless chain extending full length of the frame and actuated by said engine, and means connecting the housing with the chain for moving the housing to various elevations with respect to the frame.

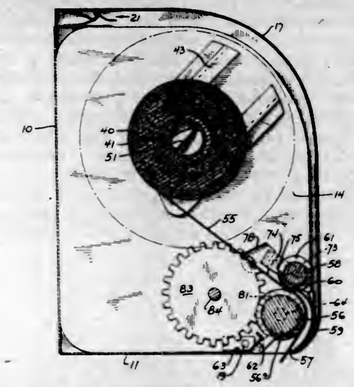
2,404,420
BEARING ASSEMBLY
Phillip R. Wheeler, Alexandria, Va.
Application January 5, 1944, Serial No. 517,050
2 Claims. (Cl. 308—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A bearing assembly comprising a self-contained raceway structure having a plurality of channel members of substantially uniform thickness, one of said members of 3-shaped cross-section having a V-shaped race and adjacent strengthening flanges, and at least one of said members of E-shaped cross-section comprising at least two separable and interchangeable elements of substantially U-shaped cross-section forming a complementary V-shaped race with adjacent strengthening flanges, said elements being coupled adjacent the vertex of this V-shaped race, releasable coupling means for said elements to permit easy disassembly thereof, said channel members being positioned with the V-shaped races aligned in opposed relation to form a raceway of substantially rectangular cross-section, and anti-friction means disposed in said rectangular raceway whereby the bearing assembly will freely support loads in any direction.

2,404,421
PAPER FEED FOR TOWEL DISPENSERS
Philip A. Wooster, San Rafael, Calif.
Application December 31, 1941, Serial No. 425,175
8 Claims. (Cl. 271—2.3)

1. The combination with a cabinet for dispensing paper toweling or the like from a roll, of a dispensing roller adjacent the front and bottom of the cabinet, a pressure roller having annular grooves therein and mounted above and in contact with the dispensing roller and portions of the pressure roller between the annular grooves being relieved part way around the roller, such relieved portions being circumferentially spaced with respect to each other, to permit adjustment of the paper between the rollers as it is being advanced thereby, a guide fixed to the interior of the cabinet and positioned to confine the toweling between the guide and the friction driving roller and having projections extending into the pressure roller grooves, said guide directing the

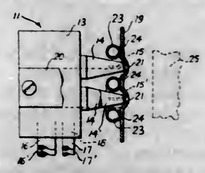


toweling through an opening formed in the bottom of the cabinet.

2,404,422
TRANSPARENT PLASTIC MATERIAL
Bjorn Andersen, Maplewood, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Original application January 28, 1939, Serial No. 253,251. Divided and this application February 12, 1942, Serial No. 430,618
6 Claims. (Cl. 229—3.5)

1. A container for holding food and other products yielding moisture tending to condense within the container, comprising substantially impervious transparent sheet material containing an ester of cellulose, said sheet material being saponified so that at least its inner or unexposed surface is capable of absorbing moisture and said sheet material is free from the tendency to fog or sweat.

2,404,423
METHOD AND APPARATUS FOR PROTECTING BURNERS
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 24, 1942, Serial No. 440,295
8 Claims. (Cl. 158—27.4)

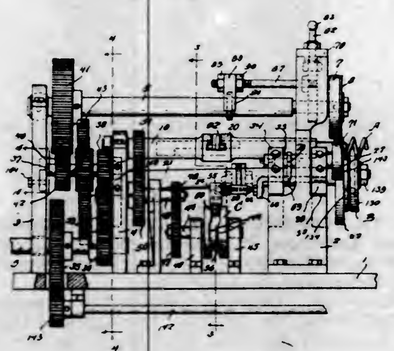


1. The method of preventing spatter from a work piece from accumulating on a burner, which method comprises interposing a perforated plate between the burner and the work piece, and continually producing a sheet of liquid on the side of the plate confronting the work piece.

2,404,424
MACHINE FOR COILING METAL STOCK
John Balla, Sr., Schenectady, N. Y.
Application July 6, 1944, Serial No. 543,694
15 Claims. (Cl. 153—64)

1. An apparatus for coiling metal stock comprising, front, rear and intermediate standards,

a power shaft journaled in the rear and intermediate standards, a stock feed roller shaft rotatably mounted in said front and rear standards, the front end of said stock feed shaft being journaled in a vertically movable support and carrying a feed roll, a mandrel rotating shaft rotatably mounted in the front and intermediate standards and being restrictedly vertically movable in the front standard, a mandrel detachably connected axially to said shaft, a forming roll shaft rotatably mounted in said front and intermediate standards and carrying a forming roll, an idler roll shaft rotatably mounted on said front standard and carrying an idler roll, all of said shafts with the exception of said idler roller shaft having driving connection with said main power shaft, said stock feeding roll being above said mandrel and said forming and idler rolls being at opposite sides of said mandrel and in axial planes below the axial planes of said stock feeding roll and said mandrel, means associated with said forming roll for periodically severing said stock on said mandrel while the mandrel is being rotated and while the stock is being coiled thereabout, means for forcing the outer end of the feed roller shaft and the feed roller downwardly under a selected amount of pressure, and means adjustably positionable longitudinally of the mandrel and engaging the side of the stock thereon and causing the stock to be coiled in opened spirals of predetermined pitch.



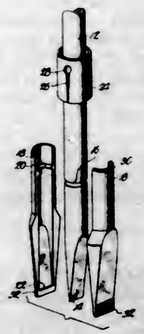
2,404,425
PROCESS FOR PRODUCTION OF ALKYL MERCAPTANS
Joy E. Beanblossom, Niagara Falls, and Richard H. Kimball, Lewiston, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application November 30, 1944, Serial No. 566,022
11 Claims. (Cl. 260—609)

1. The process for production of alkyl mercaptans of 10 to 18 carbon atoms by reaction of the corresponding alkyl chloride with sodium hydrosulphide in a two-phase system which comprises agitating the hydrosulphide at 70° to 100° C. with water amounting to not less than substantially 43 per cent of the weight thereof, and an alcohol boiling above 85° C. but below the boiling point of the mercaptan and miscible with the alkyl chloride as well as with a minor proportion only of the hydrosulphide and water, said alcohol containing up to 10 per cent of its weight of water and the quantity of alcohol being less than that with which the water and hydrosulphide would be miscible; passing hydrogen sulphide into the mixture to saturate it therewith; incorporating the alkyl chloride with the mixture, the quantity of alkyl chloride being less than the molecular equivalent of the hydrosulphide and such that the water content of both phases of the mixture is not less than 7 per cent of the total weight; agitating the mixture at 85° to 110° C. and simultaneously passing hydrogen sulphide into it to maintain it saturated therewith; continuing the operation until the reaction is substantially complete with respect to the alkyl chloride; and recovering the product from the organic phase.

2,404,426
SURFACE CHARACTERISTICS OF SOLID ORGANIC POLYMERS
Max Fredrick Bechtold and Paul Swithin Pinkney, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 15, 1944, Serial No. 545,196
11 Claims. (Cl. 117—121)

11. Process of providing a solid organic polymer with improved surface characteristics which comprises coating a surface of the polymer with a coating solution comprising an acid polysilicic acid ester of an alcohol containing from 1 to 12 carbon atoms, inclusive, said ester having from .01 to 2.0 silicic acid ester groups per silicon atom, a polymer containing hydroxyl groups, and a volatile organic solvent, drying said coating at approximately room temperature and, thereafter, baking said coating at an elevated temperature.

2,404,427
EXPANSIBLE JAW SCREW DRIVER
Samuel Bloomfield, Wichita, Kans.
Application February 23, 1944, Serial No. 523,519
3 Claims. (Cl. 145—50)



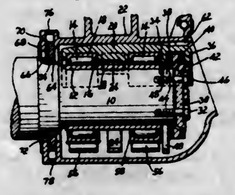
1. A screw driver of the character described comprising, in combination, a handled shank having a blade; a plurality of jaws loosely fitted onto the blade and extending longitudinally therealong; means on each jaw respectively, to prevent accidental longitudinal displacement of the jaws; and resilient means engaging the jaws adapted to allow radial movement of the jaws as torque is applied to the blade, said jaws each having a shoulder engageable by the end of the blade as longitudinal force in one direction is applied to the shank during use of the screw driver.

2,404,428
TURBINE APPARATUS
Donald Bradbury, Prospect Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 31, 1944, Serial No. 520,565
1 Claim. (Cl. 60—41)



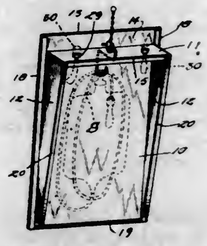
A system for controlling the supply of fuel to the combustion apparatus of a gas turbine or the like, comprising a constant displacement pump, a throttle valve having an inlet and a plurality of outlets, means including a Venturi tube connecting the outlet of the pump to the inlet of the throttle valve, means for connecting one of said valve outlets to the combustion apparatus for supplying fuel thereto, means for connecting a second valve outlet to the inlet of the pump, said valve including an adjustable valve member for by-passing a selectable amount of fuel through said second outlet to the pump inlet for varying the rate of flow of fuel to the combustion apparatus, a control valve communicating with the discharge end of said Venturi tube and opening to the inlet of said pump, said control valve including a valve member for regulating the flow of fuel therethrough, means for positioning said valve member in accordance with the pressure differential between the inlet and throat of said Venturi tube and arranged so that an increase in the pressure differential between the inlet and throat of the Venturi tube tends to open said control valve, and means responsive to the temperature of the motive fluid generated by said combustion apparatus for positioning said valve member in accordance with the temperature of said motive fluid and arranged so that an increase in temperature of said fluid above a predetermined value tends to open said control valve.

2,404,429
RAILWAY JOURNAL BOX
Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 2, 1943, Serial No. 471,107
12 Claims. (Cl. 308—180)



1. In a device of the character indicated, a journal box, an axle journal extending into the box, a wedge member between the journal and the box, an antifriction bearing between the wedge member and the journal, the wedge member having a pair of internal flanges forming a groove with opposed thrust surfaces near the end of the journal, a thrust collar secured to the end of the journal and projecting into the groove between the thrust surfaces thereof to transmit axle thrust in opposite directions from the journal to the wedge member, the sides of the box having inward projections with opposed thrust surfaces, the sides of the wedge member having recesses with opposed thrust walls embracing the projections to transmit thrust in opposite directions from the wedge member to the box, the wedge member being located entirely above axle level so that the groove between its flanges is open only downwardly, and the collar being detachably connected to the journal for downward removal from the groove to provide for endwise removal of the journal from the assembled bearing, wedge member and box.

2,404,430
HANGING SUPPORT FOR FOUNTAIN SYRINGES
Joseph A. Brooks, Pittsburgh, Pa.
Application August 8, 1944, Serial No. 548,598
4 Claims. (Cl. 206—17.5)

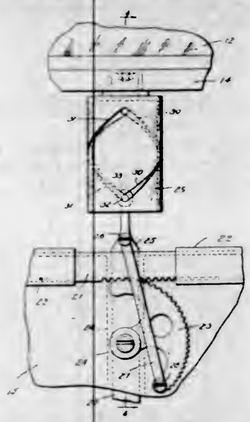


1. In a hanging support for fountain syringes and the like, a casing having a front wall, top and side walls, the rear edges of the side walls adapted for abutting engagement with a room wall and the forward edges of the side walls being inclined downwardly and rearwardly in its position against a wall in simulation of a hanging picture and suspension means for the casing, including a hook within the casing for the support of a fountain syringe or the like, a part of the hook extending upwardly through the top wall of the casing and a pulley block movably engaged with the part of the hook extending above the casing, a hanging chain engaging the pulley block, and said hook within the casing having a part thereof attached to the underside of the top wall of the casing to maintain the hook in proper relationship with the casing.

2,404,431
WATER REPELLENT COATING MATERIAL
Ralph Canter and Harvey D. Geyer, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application July 30, 1941, Serial No. 404,694
14 Claims. (Cl. 62—108.5)

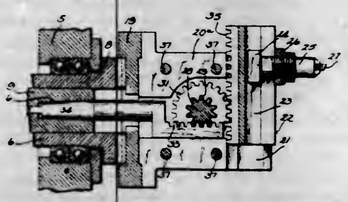
1. A freezing device comprising in combination a container member for holding a liquid to be frozen, and a partitioning member for dividing a frozen content into blocks, at least one of said members being coated with a water repellent coating composition polymerized after application to said member for hardening the coating and making it an adherent to the member, said coating consisting of a urea formaldehyde resin and alkyd resin in quantities of from 50% to 90% by weight of the composition together with a high melting point wax which includes a wax that has a melting point in the neighborhood of 180° F., together with a wax which has a melting point above 140° F., said waxes making up the remainder of the coating composition.

2,404,432
VENTILATOR MECHANISM FOR AUTOMOBILE DOORS
Daniel L. Chandler, Salem, Mass., assignor to Aresee Company Inc., Swampscott, Mass., a corporation
Application December 7, 1944. Serial No. 567,095
5 Claims. (Cl. 268—120)



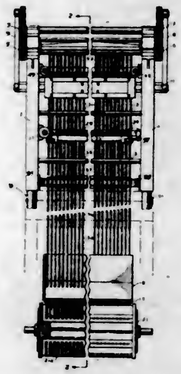
1. In an automobile door having a door frame and a swinging ventilator window, the combination of a reversible electric motor and driven pinion mounted in a housing located within said door, a rack member slidably mounted on said housing one end of which is engaged with said pinion and the other end of which is engaged with a segmental gear member pivoted on said housing, a slide member slidably located on said housing, a pivoted link member connecting said slide member with said gear member, a cylindrical member provided with spiral tracks located in the side of said cylinder one end of said cylinder being pivoted in said door frame and attached to said pivoted window, a cross-pin located through one end of said slide member and engaged with said cylinder tracks for the purpose of turning said cylinder and ventilator window when said slide is raised or lowered.

2,404,433
FACING AND BORING DEVICE
Peter J. Christman, Green Bay, Wis.
Application November 29, 1943, Serial No. 512,146
9 Claims. (Cl. 77—3)



4. A tool carrying head applicable to a machine tool of the type having a rotatably mounted spindle sleeve with a terminal face, and a boring bar reciprocable axially of the sleeve in bearing contact therewith and provided with driving connections behind said sleeve for actuating the bar axially irrespective of sleeve rotation; said tool carrying head comprising a body member provided with means for mounting it on the face at the end of the sleeve, a part reciprocable axially of the head and projecting therefrom and provided with means for connecting it to said boring bar to receive axial movement therefrom, a transversely movable slide carried by the head and provided with rack teeth, the head having a guideway in which said slide is transversely reciprocable, a tool provided with means for mounting it upon the slide, pinion means meshing with the rack teeth of the slide, and a rack connected with said part and meshing with said pinion means whereby axial movement of said part in both directions of boring bar reciprocation is communicated through the pinion means to effect transverse movement of said slide irrespective of rotation of the spindle sleeve and said body portion.

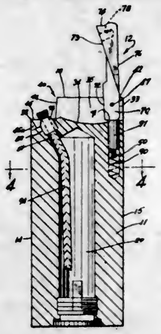
2,404,434
APPARATUS FOR PACKING EXPLOSIVE IN CARTRIDGES
Joseph L. Clark, Wilmington, Del., Carlyle M. Linden, Chattanooga, Tenn., and Cloyd J. Obert, Bessemer, Ala., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application May 25, 1942, Serial No. 444,456
3 Claims. (Cl. 86—29)



1. In a machine for filling shells having a series of independent tamping rods and driving mechanism frictionally engaging the tamping rods to reciprocate and permit them to independently retrogress as the shells become filled, the improvement which comprises a dogging element affixed to each of the independent tamp-rods; a dogging bar having independent detents adapted to engage the independent dogging elements; means for moving the dogging bar to a first position to engage the dogging elements and restrict downward travel of the tamp-rods into their respective shells; and means for moving the dogging bar to a second position to engage the dogging elements and prevent the tamp-rods from entering their respective shells.

2,404,435
CIGARETTE LIGHTER
Benjamin Cooper, New York, N. Y., and Albert F. Hohmann, Teaneck, N. J.; said Hohmann assignor to said Cooper
Application November 28, 1945, Serial No. 631,242
6 Claims. (Cl. 67—7.1)

2. A cigarette lighter comprising a one piece body having a front surface, side surfaces, a rear surface, and a top surface, said body having at its upper end an upwardly and rearwardly inclined surface extending from the front surface to the top surface, said inclined surface extending to one side surface of said body, said body being furthermore formed at its front surface with a notch disposed to one side of said inclined surface, a cover hinged to said body, said cover having an inclined surface contacting the inclined surface of the body, said cover furthermore having a portion received within said notch, said body being formed with a longitudinal fuel chamber, and with a wick opening communicating with



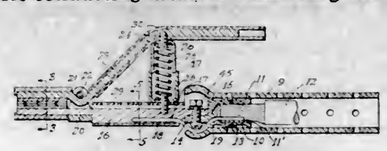
the fuel chamber and extending to said inclined surface of said body substantially at right angles thereto, a wick within said wick opening projecting upwardly and forwardly of the body, said cover being formed with a socket to receive the exposed end of the wick, a flint wheel rotatably mounted on said body and located within said notch and adjacent said wick, and said portion of said cover having a recess to receive said wheel.

2,404,436
ISOMERIZING HYDROCARBONS
Chester C. Crawford, El Cerrito, and David Louis Yabroff, Alameda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 17, 1942, Serial No. 465,926
4 Claims. (Cl. 260—683.5)

1. A process for isomerizing methyl pentane to dimethyl butane which comprises contacting methyl pentane in admixture with hydrogen halide at isomerizing conditions with a molten mixture of halide salts containing an uncombined aluminum halide in the absence of any added free metal in a reaction zone and avoiding substantial hydrocarbon decomposition by introducing into said reaction zone small proportions, not substantially in excess of about 1% by weight of the hydrocarbon feed, of uncombined hydroquinone.

2,404,437
ELECTRODE HOLDER
Thomas S. Donnelly, Jr., Detroit, Mich., assignor to Bordon Mfg. Co., Inc., Detroit, Mich., a corporation of Michigan
Original application February 19, 1943, Serial No. 476,481, now Patent No. 2,358,220, dated September 12, 1944. Divided and this application December 11, 1943, Serial No. 513,946
3 Claims. (Cl. 219—8)

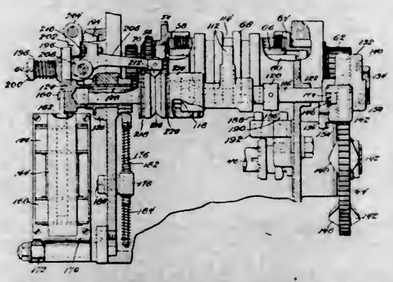
1. In an electrode holder of the class described, a metallic gripping mechanism for gripping an electrode; a metallic supporting member for said gripping mechanism and extending rearwardly thereof; a handle; a metallic connector mounted in said handle for connection to an electric conductor; means for pivotally connecting said supporting member and said connector; and a flexible electric conducting member connecting said supporting member and said connector and shunting the pivotal connection.



2,404,438
PROCESS FOR THE MANUFACTURE OF OLEFIN OXIDES
Theodore W. Evans, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 7, 1943, Serial No. 501,501
9 Claims. (Cl. 260—348.5)

1. A process for the production of ethylene oxide by the direct catalytic oxidation of ethylene which comprises reacting ethylene with oxygen employed in amount less than the stoichiometric amount necessary to combine with the ethylene, and effecting the reaction at a temperature of between about 230° C. and about 320° C. in the presence of a catalyst comprising silver metal activated by the presence of from about 0.5% to about 5% by weight of sodium oxalate.

2,404,439
DRIVING AND CONTROL MECHANISM
George B. Hirsch, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application July 31, 1943, Serial No. 496,931
15 Claims. (Cl. 90—21)



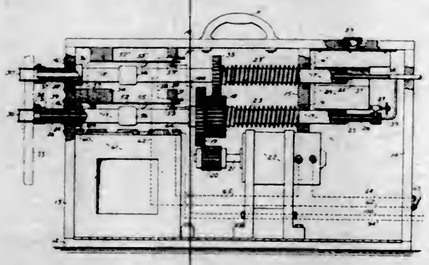
1. A driving and control mechanism for a machine tool support which comprises power driving connections for driving the support alternatively at feed and quick traverse rates including a feed-quick traverse clutch having neutral and alternative feed and quick traverse clutching positions, and control means therefor comprising clutch shifting means, a continuously rotating cam element having operating surfaces co-acting with said clutch shifting means to shift the clutch in opposite directions, follower means connected with said clutch shifting means having follower surfaces arranged to be acted upon selectively by said operating surfaces for shifting the clutch, and means for shifting the follower surfaces and operating surfaces relatively to cause selected follower and operating surfaces to co-act selectively with one another to shift the clutch from any one to another of said neutral and clutching positions.

2,404,440
TORPEDO COUNTERMINING DEVICE
Carl H. Holm, Marion, Ky., assignor of twelve and one-half per cent to Clarence W. Lothrop, Riverside, Calif.; ten per cent to W. B. Pierce, Coral Gables, Fla.; twelve and one-half per cent to Norman Pierce, Chicago, Ill.; and sixty-five per cent to himself
Application April 19, 1941, Serial No. 389,441
17 Claims. (Cl. 114—240)



1. In protecting apparatus of the character described, a relatively slender, elongated streamer composed of a plurality of sections of flexible material, couplings between said sections, hydrostatic devices in said couplings constructed to maintain the streamer at a determined depth when drawn through the water, a plurality of microphones upon the streamer, explosive charges extending along the streamer, and electrical firing means for setting off the explosive charges under the influence of sound emanating from a torpedo in motion and acting upon said microphones.

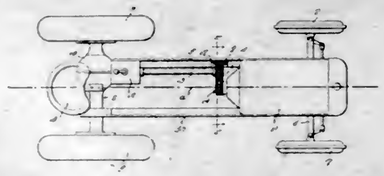
2,404,441
METHOD OF RENDERING BOMBS INACTIVE
Nevil M. Hopkins, New York, N. Y.; Raymonde B. Hopkins executor of said Nevil M. Hopkins, deceased, assignor to Raymonde Briggs Hopkins, New York, N. Y.
Application February 7, 1942, Serial No. 429,924
6 Claims. (Cl. 89—1)



1. The method of treating a bomb within a casing and having an activating element, which comprises perforating the casing; and injecting through the perforated casing a fluid refrigerant capable of developing a temperature sufficiently low that the heat exchange between the refrigerant and the activating element will render such element inoperative.

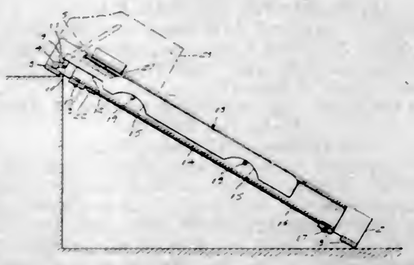
2,404,442
AGRICULTURAL TRACTOR
Herschel Hutchings, Lubbock, Tex.
Application April 17, 1945, Serial No. 588,775
1 Claim. (Cl. 180—1)

An agricultural tractor including an open frame having side rails and provided with front steering and supporting wheels, a power plant supported by the forward end of the frame centrally between said wheels, a rear axle housing structure supporting the rear end of the frame and including rear drive wheels and a differential assembly offset to one side of the longitudinal center line of the tractor, a transmission assembly secured to the differential assembly and offset to said one side of said center line and mounted on the adjacent side rail of the frame, a longitudinal propeller shaft offset to said one side of the center line and connected at its rear end to the drive shaft of said transmission assembly, and a gearing assembly offset to said one side of



the center line and mounted on said adjacent side rail, said gearing assembly operatively connecting the front end of the propeller shaft to the power plant, and a driver's seat at the rear of the tractor, the space between the power plant and the rear axle housing structure and between the propeller shaft and the other side rail of the frame being substantially unobstructed so that the driver has substantially complete vision downwardly therethrough to observe the passage of plants beneath the tractor.

2,404,443
SKID BRAKE
Norman B. Irving, Philadelphia, Pa.
Application April 30, 1945, Serial No. 591,147
4 Claims. (Cl. 193—41)

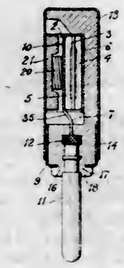


1. In a skidding structure, a support adapted to be disposed at an incline, a carriage slidable on the support and guided thereby, a brake retractable into the support and operable into engagement with the carriage, and means for operating the brake, said brake operating means including a manually actuated element for moving the brake longitudinally of the support and cam means for engaging and laterally displacing the brake into engagement with the carriage.

2,404,444
ISOMERIZATION PROCESS USING METAL HALIDE COMPLEXES
Charles A. Kraus, Providence, R. I., and John D. Calfee, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 16, 1943, Serial No. 510,490
12 Claims. (Cl. 260—683.5)

1. A process of isomerizing normal paraffins containing at least four carbon atoms per molecule to form the corresponding branched chain paraffins which comprises contacting said normal paraffins under isomerization reaction conditions, in the presence of a halogen-containing promoter, with a catalyst mass prepared by admixing a metal halide of the Friedel-Crafts type with an alkoxy derivative of an aluminum halide, and heating the resultant mass to remove alkyl halide.

2,404,445
CRYSTAL
Walter E. Kuenstler, Cliffside Park, N. J.
Application August 2, 1944, Serial No. 547,692
16 Claims. (Cl. 171—327)

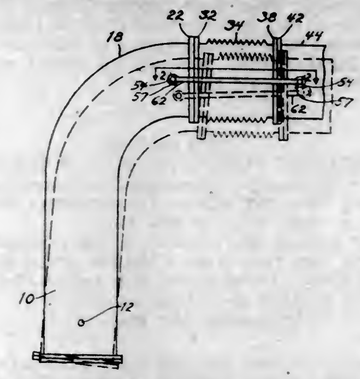


1. In a crystal assembly, a crystal, electrodes between which the crystal is located, a housing of insulating material within which the crystal and electrodes are contained, a two-part metallic casing enclosing the insulating material, one part of the metallic casing having an opening, a contact pin embedded in the insulating material and projecting through the opening in the casing, said insulating material surrounding the pin and insulating it from the casing, the edge portions of the casing defining said opening being embedded in the insulating material.

2,404,446
LUBRICANT ADDITIVES AND PREPARATION THEREOF
Eugene Lieber, West New Brighton, Staten Island, N. Y., and Aloysius F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 30, 1942, Serial No. 470,642
1 Claim. (Cl. 260—125)

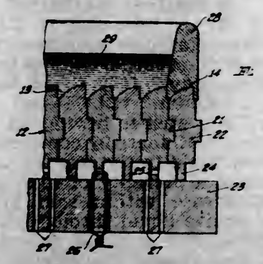
Process of preparing improved extreme pressure lubricating agents which comprises solvent extracting a chlorinated paraffin alkali polysulfide reaction product containing about 5 to 10% of sulphur and about 30 to 40% of chlorine at about room temperature with isopropyl alcohol of about 91% concentration, using about 1000 cc. of the alcohol per 1200 grams of material treated, separating the raffinate phase from the extract phase, subjecting the raffinate phase to three successive extractions at room temperature with isopropyl alcohol of about 99% concentration, using about the same volume of solvent as in the first extraction phase, extracting the fourth raffinate at about 125° F. with isopropyl alcohol of about 99% concentration, and recovering the solvent from each of the extract phases and from the final raffinate phase.

2,404,447
EXPANSION JOINT
Joseph V. Marancik, Roselle, and David B. MacClymont, Newark, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application April 17, 1943, Serial No. 483,456
2 Claims. (Cl. 285—90)



1. In a piping system wherein an angular pipe section is pivotally held adjacent one end and its other end is connected with another pipe section by a heat responsive corrugated metal expansion joint and the adjacent ends of said pipe sections take different positions due to temperature changes, a linkage arrangement pivoted to the ends of the two pipe sections and spanning the expansion joint to provide for relative movement between the adjacent ends of said pipe sections due to changes in temperature and to absorb pipe stresses including those due to expansion or contraction of said pipe sections due to changes in temperature, said relative movement being in a plane substantially perpendicular to the pivotal axis of said linkage, said linkage arrangement being disposed outside the path of movement of the ends of said pipe sections.

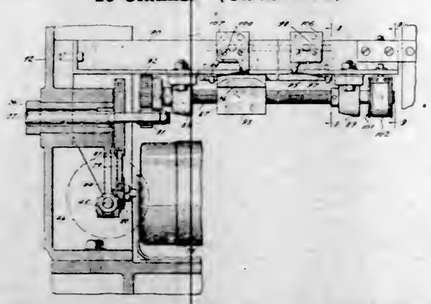
2,404,448
MATRIX FOR MAKING LIGHT TRANSMITTING SCREENS
Otis C. Martin, Los Angeles, Calif.; Marion E. Martin administratrix of said Otis C. Martin, deceased
Original application June 28, 1939, Serial No. 281,625. Divided and this application March 16, 1942, Serial No. 434,810
2 Claims. (Cl. 18—34)



2. In a matrix for forming a light transmitting screen of the type employing a grooved screen surface defining a plurality of facets for refracting light received from a projector disposed on one side of said screen into a camera disposed on the other side thereof, the combination of: a

matrix body comprising a thin metal tape wound in spiral fashion about itself, adjacent turns of said spiral lying in contact with each other; an edge portion on said tape having a cross section congruent with said grooves for forming a matrix surface having a plurality of substantially concentric ridges thereon; a longitudinally extending tongue formed on one side of said tape; and a longitudinally extending groove formed in the other side of said tape for receiving the tongue on an adjacent turn of said spiral to hold said adjacent turns against relative movement toward and away from said surface.

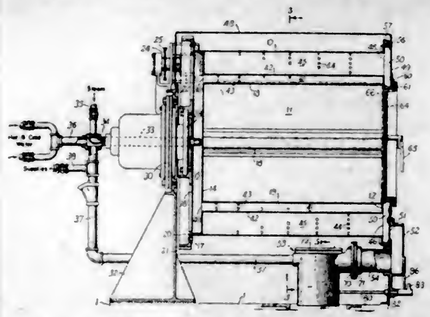
2,404,449
AUTOMATIC TIRE STITCHING MACHINE
Cuyler S. McChesney, Kenmore, N. Y., assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Original application October 3, 1942, Serial No. 460,705, now Patent No. 2,394,464, dated February 5, 1946. Divided and this application November 18, 1944, Serial No. 564,159
15 Claims. (Cl. 154—10)



1. A tread stitcher for stitching tread on a tire carcass on a rotatable forming drum which comprises a shaft, a pair of stitching disks rotatably and slidably mounted on said shaft, means to move said shaft to bring the peripheries of said disks against the tread on said forming drum, means to slide said disks toward and from each other on said shaft, control means comprising an electric circuit having a pair of cam operated switches to control the direction and extent of movement of said disks, a cam for operating said switches and means to move said cam to and from said switches in proportion to the movement of said disks.

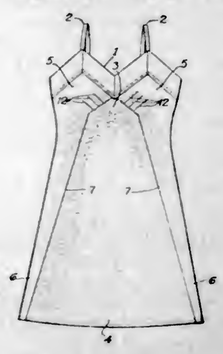
2,404,450
WASHING MACHINE
Henry C. A. Meyer, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware
Application May 9, 1942, Serial No. 442,314
1 Claim. (Cl. 68—58)

In a shell-less washer having an imperforate rotatable wash cylinder, in combination, means for admitting liquid to the interior of said cylinder comprising a plurality of inlet conduits extending lengthwise within said cylinder each adapted to receive liquid through an inlet opening connecting with a liquid receiving space at one end of the cylinder and having means communicating with the interior of the cylinder comprising a plurality of perforations distributed lengthwise the conduit the aggregate flow area of which is greatest adjacent the inlet end of the conduit and progressively less per unit of conduit length away from said inlet end, means for discharging liquids from said cylinder comprising a plurality of discharge conduits extending lengthwise within said cylinder each adapted to discharge liquid through an outlet opening connecting with a liquid discharge space at the other end of the cylinder and having means communicating with the interior of the cylinder com-



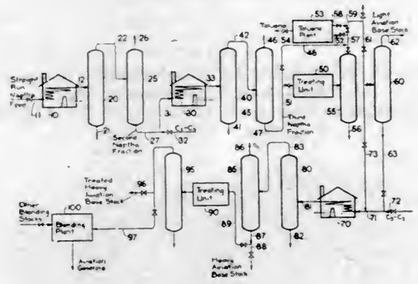
prising a plurality of perforations distributed lengthwise the conduit the aggregate flow area of which is greatest adjacent the discharge end of said conduit and progressively less per unit of conduit length away from said discharge end, and controllable means for supplying rinse liquid to said receiving space and controllable means for discharging liquids from said discharge space.

2,404,451
LADY'S SLIP
Lester S. Milberg, Brooklyn, N. Y.
Application November 17, 1944, Serial No. 563,825
2 Claims. (Cl. 2—73)



1. A lady's slip of the character described, having straight cut front and rear gores which are relatively narrow in width at the upper part of the garment so as to lie respectively between the bust and shoulder blade engaging portions of the garment and flare downwardly to provide relatively wide front and rear gore portions at the bottom skirt portion thereof, said garment having bias cut side gores which are relatively wide at the upper part of the garment to form the bust and shoulder blade engaging portions thereof and narrow at the bottom skirt portion thereof, said side gores being joined to the front and rear gores by seams which run obliquely down the front and rear portions of the garment and diverge downwardly with respect to each other so that the threads of the material on both sides of the seams run obliquely with respect thereto, each of said side gores extending unitarily substantially the full length of the slip and also extending unitarily around its corresponding side of the bodice and skirt portions of the slip, to the corresponding front and rear gore seams above mentioned.

2,404,452
PRODUCTION OF AVIATION GASOLINE
Ivor G. Nixon, Ewell, England, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 27, 1944, Serial No. 528,290
14 Claims. (Cl. 196—49)

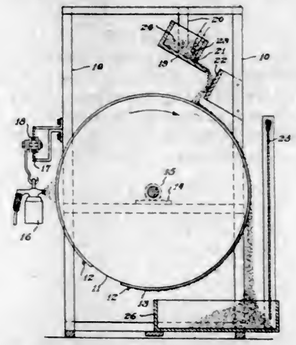


1. A process for producing an aviation gasoline base stock from a straight run naphtha having a boiling range essentially within about 90° C. and 230° C., comprising the steps of non-catalytically cracking said naphtha, separating the resulting cracked product by itself to produce a second naphtha fraction boiling essentially within the range of about 90° C. and 230° C., non-catalytically re-cracking said second naphtha fraction, separating the resulting re-cracked product by itself to produce a heavy fraction boiling between about 140° C. and about 230° C., further noncatalytically cracking said heavy fraction and separating the resulting further cracked product by itself to produce an aviation base stock boiling essentially within the range of about 100° C. and 200° C., each of said cracking operations being conducted at a temperature between about 540° C. and 580° C. and at a pressure between about 40 and 100 kg./sq. cm.

2,404,453
REMOVAL OF CHLORATE FROM CAUSTIC SODA
Sidney G. Osborne and Aloysius Mitchell, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application October 12, 1943, Serial No. 505,950
6 Claims. (Cl. 204—153)

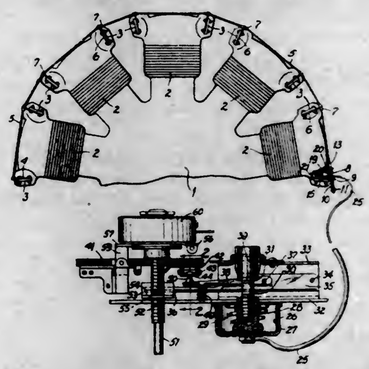
1. In the purification of substantially 50 per cent aqueous caustic soda solutions containing not over 10 parts of sodium chlorate per 1,000 parts of caustic soda, the method of effecting rapid electrolytic reduction of the chlorate which comprises contacting the solution with an electromotive couple composed of physically distinct metals and made up of a metal of the group consisting of iron, cobalt and nickel short-circuited with a metal of the group consisting of copper, silver, platinum and gold, at 130° to 156° C. and for a time effective in reducing a substantial proportion of the chlorate.

2,404,454
BEADING PROJECTION SCREENS
James H. Owens, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 8, 1943, Serial No. 471,787
2 Claims. (Cl. 91—18)



2. Apparatus for making beaded projection screens including a drum having an axis of rotation, means for supporting the screen upon the outer surface of said drum, spray means for applying an adhesive coating to the screen supported on the drum, a trough having a slot and an extending lip for uniformly supplying beads along a path substantially parallel to a tangent to the drum, a baffle mounted in a plane substantially normal to said tangent in the path of said beads for redistributing said beads and directing them into a path substantially radial to said drum, and means for rotating said drum.

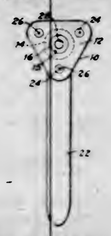
2,404,455
CONTROL APPARATUS
Lawrence M. Persons, Ladue, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application May 17, 1943, Serial No. 487,328
10 Claims. (Cl. 201—48)



4. A control apparatus comprising, a frame, a temperature-responsive member adapted to move relatively to the frame in accordance with the temperature of a machine being controlled, a rotatable power-driven shaft mechanically connected to the part to be controlled, a main lever pivoted on said frame, connections between said shaft and said main lever for causing said lever to move longitudinally of the shaft as the shaft rotates, a second lever pivoted on the main lever and arranged to follow movements of said tem-

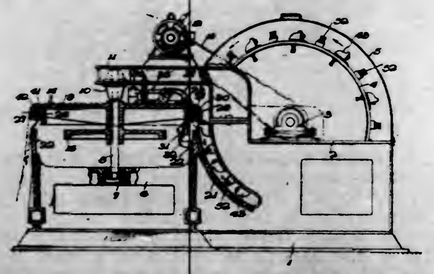
perature-responsive member, a plurality of stationary contacts, a switch bar centrally mounted on said frame to selectively engage said stationary contacts in accordance with the position of said second lever, limit switch actuating means on said shaft and rotatable therewith, and a potentiometer on said shaft.

2,404,456
ALIGNMENT TOOL
Wayne M. Pierce, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 30, 1944, Serial No. 542,906
4 Claims. (Cl. 77—55)



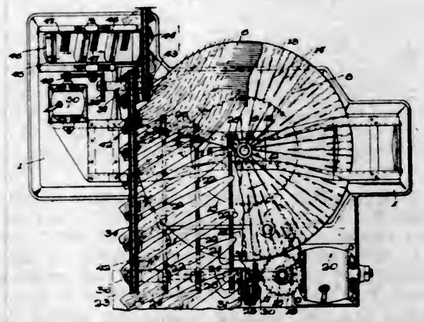
1. The steps in positioning the photographic reproduction of a master layout template in accurate alignment with said template which consists in, selecting key hole locations clear of the lines on said template, successively applying an alignment tool at said locations having a drill bushing and a plurality of pointed projections disposed about said bushing, passing a drill through said bushing and through said template at each location of a size accurately fitting said drill passage to form a key hole while forcing said tool against said template sufficiently firmly for said projections to make impressions in the surface thereof, photographically reproducing said template on a sheet of metal, prick-punching the photographic reproductions of said impressions at each hole location, applying said tool to said reproduction at each key hole location with its projections seated in the corresponding prick-punched holes therein, passing said drill through said bushing and through the reproduction to form a key hole and securing said master template and reproduction together in alignment by keys accurately fitting said holes.

2,404,457
DECORTICATING MACHINE
John S. Reeves, Baltimore, Md.
Application March 25, 1944, Serial No. 528,128
12 Claims. (Cl. 19—16)



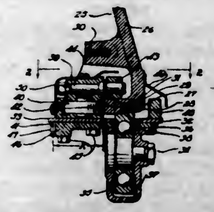
1. In apparatus of the class described, a rotating table adapted to receive leaves to be cleaned, a scutching support beneath the periphery of said table at one side thereof and a scutching wheel cooperating with said support, stationary leaf holding means cooperating with the upper marginal surface of said table and adapted to hold one end of a leaf on the table with the other end hanging down over said scutching support, additional stationary means located beyond said scutching wheel for elevating the depending cleaned end while the uncleaned end is thus held, means cooperating with the periphery of the table for engaging and holding the elevated cleaned end, and means for thereafter overturning the uncleaned end of the leaf to hang down over said peripheral holding means, said peripheral holding means extending continuously from the point of engagement of said cleaned end to and beyond said scutching wheel.

2,404,458
DECORTICATING MACHINE
John S. Reeves, Baltimore, Md.
Application March 25, 1944, Serial No. 528,129
9 Claims. (Cl. 19—12)



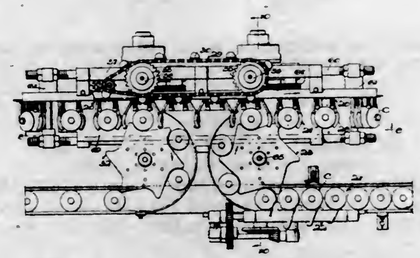
1. Apparatus of the class described comprising a flat scutching support and a scutching member rotatable relative thereto and having blades projecting into close proximity with the surface of said support, said support having a feeding edge for leaves to be cleaned that is substantially radial relative to the axis of rotation of said scutching member.

2,404,459
TURRET MOUNTING
Dale Roeder, Wayne, and Emory Nador, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application March 14, 1944, Serial No. 526,362
3 Claims. (Cl. 89—36)



1. In a bearing construction for a turret or the like, said turret characterized in having an inturned lower flange, a supporting hull having a substantially horizontal upper skin and an aperture therein, a plurality of circumferentially spaced bearing assemblies about said aperture each comprising a roller bearing rotatably supported within said hull and beneath said skin and extending partially thereabove to engage the lower surface of said flange, correspondingly spaced co-operating horizontal roller bearings engaging the inner circumferential face of said flange, housings mounted on said hull above said skin within said turret and rotatably supporting said last-named bearings, hold-down roller bearings mounted in said housings and engaging the upper surface of said flange, an internal ring gear within said hull beneath said skin and securing means extending through said ring gear and skin and said housings to correlate the positions of the engaging face of said horizontal bearings and the teeth on said ring gear.

2,404,460
ARTICLE HANDLING APPARATUS
Edwin Rolker, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application January 15, 1943, Serial No. 472,505
16 Claims. (Cl. 198—179)

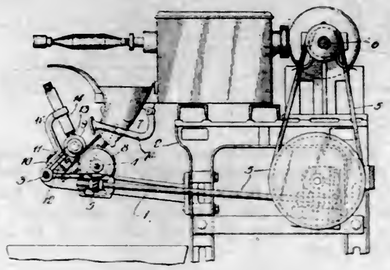


1. In an article gripping means for conveyors, a plate adapted to be secured to the conveyor, a pair of plates positioned on one face of said fixed plate for pivotal movement with respect to the latter, each of said pivoted plates having a gripping arm extending outwardly therefrom, the ends of the arms being bent toward each other, studs extending from said fixed plate and through apertures in the pivoted plates, the outer ends of said studs serving as stops against which articles will be pressed by said gripping arms, and resilient means between said movable plates and the outer ends of said studs to urge said movable plates against said fixed plate.

2,404,461
METHOD FOR OPERATING BLAST FURNACES
Stanley A. Sanford, Cleveland, Ohio
No Drawing. Application October 6, 1942, Serial No. 460,979
1 Claim. (Cl. 75—41)

The method of operating a blast furnace for producing pig iron, which comprises preparing a charge including iron ore, coke and limestone, introducing the resulting mixture into a blast furnace, blasting the said mixture to metallic iron with a constant blast of superheated air, while maintaining a burden ratio greater than 2.25, but less than 3.25, a ratio of total weight of charge to blast greater than 1.00, but less than 3.0, a ratio of total weight of fixed carbon in the charge to the free oxygen in the blast greater than 1.00, but less than 3.00, and a ratio of total weight of oxygen in the blast to reducible oxygen in the charge less than 1.75, but not less than 0.75, the said ore being hematite ore in natural hydrated condition and containing not less than 40 per cent iron, and maintaining a constant volume of blast through the tuyères during the entire operation.

2,404,462
BOBBIN MARKING MECHANISM
Otto W. Schlums, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application December 30, 1941, Serial No. 424,945
15 Claims. (Cl. 242—1)



1. As an adjunct to a bobbin-winder comprising a row of automatic and independently-operating bobbin-winding heads provided with delivery chutes which receive and discharge bobbins in the sequence in which they become fully wound by said heads, the combination of a longitudinal bobbin-drive shaft, mounted on said machine parallel to the row and common to all the winding heads thereof, a series of bobbin-drive rollers distributed along and driven by such shaft, each roller respectively adjacent to a delivery chute of a winding head, and each having a pressure means cooperating with it to advance a bobbin, means for continuously driving such shaft to continue the delivery of bobbins as soon as presented by said chutes, and means for applying a marking pigment to the bobbins while engaged by said rollers.

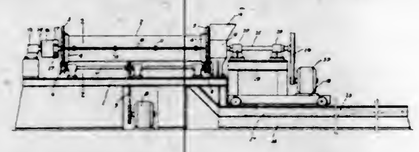
2,404,463
AQUEOUS EMULSION PAINT
Marvin T. Schmidt, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application February 23, 1944, Serial No. 523,581
11 Claims. (Cl. 106—143)

11. An aqueous emulsion paint substantially free from streaking and blotching comprising a protein selected from the group consisting of casein and an alkali dispersible vegetable protein derived from soya beans, a solvent for said protein, a water insoluble film forming resinous binder comprising the resulting product formed by heating an oil capable of drying by oxidation and polymerization with a resin selected from the group consisting of synthetic resins and natural resins, water, pigment-fillers at least one of which is colored, and the ester formed by heating a mixture of a polyethylene glycol and a fatty acid containing from 12 to 24 carbon atoms per molecule.

2,404,464
PIPE FORMING MACHINE
Earl F. Sewell, Yuba City, Calif.
Application April 17, 1944, Serial No. 531,456
13 Claims. (Cl. 25—36)

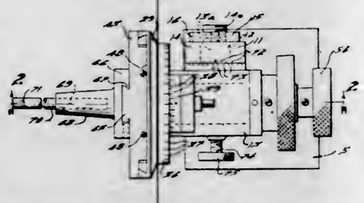
1. A concrete pipe forming machine comprising a horizontal base, a cylindrical horizontally disposed mold above the base, means on the base removably supporting the mold for rotation, a hopper mounted on the base at one end of the mold, the hopper including a body open at oppo-

site ends and one end closely registering with the adjacent open end of the mold, a carriage mounted on the base beyond the hopper for movement parallel to the mold axis, an elongated auger conveyor journaled at an end on the carriage in



axial alinement with said open ended hopper body and the mold, said auger conveyor extending through said body and from end to end of the mold when the carriage is advanced, and means to drive the conveyor and mold in opposite directions.

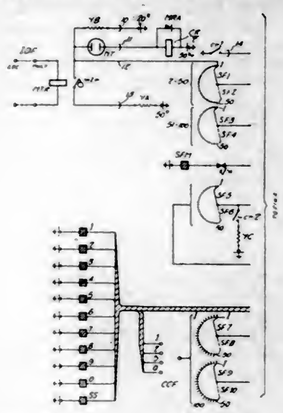
2,404,465
RADIUS TO TANGENT COMPOUND ANGLE DRESSER
Edwin Vance Statia, Sr., Royal Oak, Mich., assignor of one-half to Edward L. Chapman, Detroit, Mich.
Application September 16, 1943, Serial No. 502,637
4 Claims. (Cl. 125—11)



1. A radius to tangent angle grinding wheel dresser, comprising a base adapted to be positioned on the work table of a grinding machine, a support swiveled on said base to swing about a horizontal axis, said support being arranged in close relation to the grinding wheel of said grinding machine, a tubular control member journalled in said support and positioned in the same plane as said grinding wheel, a rotary tool supporting head on said tubular control member movable about the axis of said tubular control member at right angles to the axis of said support, a sliding head mounted on said rotary head, a grinding wheel dressing tool carried by said sliding head, and a control shaft extending through said tubular control member for imparting sliding movement to said sliding head whereby said dressing tool may be moved in an oblique plane on a compound angle when the support is swivelled on its base to a predetermined angular position.

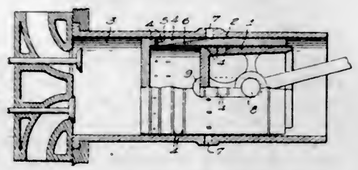
2,404,466
TELEPHONE OR LIKE SYSTEM
Reginald Taylor and George Thomas Baker, Liverpool, England, and Arthur Charles Corner, Calcutta, India, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application October 24, 1941, Serial No. 416,378
In Great Britain November 13, 1940
21 Claims. (Cl. 179—9)

2. In a telephone or like system having a subscriber's line and means for making calls thereover, means for automatically connecting with said line at intervals and, upon each such con-



nection, registering all calls made over the line during the preceding interval.

2,404,467
INTERNAL-COMBUSTION ENGINE
Hsin-Ya Tien, Calcutta, India
Application March 16, 1945, Serial No. 583,110
In China April 16, 1944
5 Claims. (Cl. 123—78)

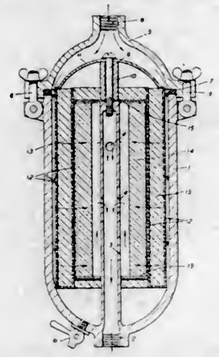


1. An internal combustion engine in which the piston head comprises an outer shell and an inner core, the outer shell having vent holes which communicate with slots formed in the cylinder body whereby air is admitted into or expelled from the space between the outer shell and the inner core during the reciprocation of the piston in the cylinder so that an air cushion of variable size is formed on said piston head whereby the power or expansion stroke and the exhaust stroke are made longer than the effective suction stroke of the engine.

2,404,468
FILTER FOR GASES UNDER PRESSURE
Cecil Gordon Vokes and Edward Arthur Stokes, London, England; said Stokes assignor to Vokes Limited, London, England
Application September 1, 1943, Serial No. 500,874
In Great Britain September 17, 1942
3 Claims. (Cl. 183—49)

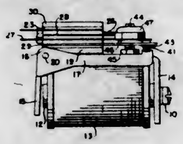
1. In a filter designed more particularly for treatment of relatively high-pressure gases charged with liquid, said filter comprising a casing having an inlet and an outlet for such gases, an initially acting outer filter of a material serving to materially absorb the water content of the gases passing therethrough and reducing the heat of such gases, and a final acting inner filter unit of a material to remove particle content of such gases after passing through the outer filter unit, the outer filter unit being spaced from the casing to provide a receiving channel, the inner filter unit defining a central discharge area,

a tube extending throughout the central discharge area and open thereto, said tube opening to the casing discharge, and an impervious shield connected to and supported by the tube arranged



between the casing inlet and filter units and directing incoming gases to said receiving channel while preventing admission of the gas to the outer filter unit from the casing inlet.

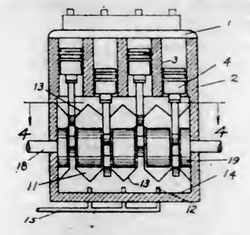
2,404,469
ELECTROMAGNETIC RELAY
Fredric E. Wood, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 12, 1944, Serial No. 539,852
13 Claims. (Cl. 200—97)



13. In a relay comprising a relay core, a heelpiece secured to said core, an armature movably mounted on said heelpiece for completing the magnetic circuit of said relay, a flexible armature switching spring tensioned against an operating arm of said armature, a back stop spring, a flexible make switching spring tensioned against said back stop spring and held out of engagement with said armature switching spring by said back stop spring, means for operating said armature to flex said armature switching spring into engagement with said make switching spring and to flex said make switching spring a variable distance away from said back stop spring dependent upon the operating stroke of said armature, and an armature stop spring adjustable to various stop positions to stop said armature variable distances away from said relay core to change the release time of said armature without effecting the operate time of said armature and without appreciably changing the contact pressure between the armature switching spring and the make switching spring.

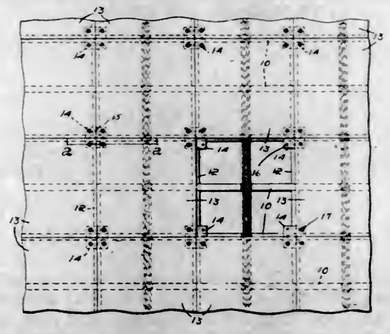
2,404,470
PISTON AND CONNECTING ROD MECHANISM
Alexander Zemen, Baltimore, Md.
Application April 15, 1943, Serial No. 483,211
1 Claim. (Cl. 74—50)

In a reciprocating engine, the combination of a crank shaft, a crank case, and a cylinder casing combined therewith, piston means inserted in said cylinder casing and operating in a reciprocating manner, piston rods adjustably attached at one end of the piston to form a rigid connection thereto, and arranged to operate in a straight line, a partitioned Scotch yoke member formed at the lower end of the piston rod and reciprocating therewith, guides for said Scotch yoke forming parts of the walls of the crank case, the Scotch yoke being formed in two separate parts



and joined together for ready attachment to a crank shaft pin, the Scotch yoke being provided with a symmetrical elongated slot formed at right angles to the center line of the pistons and piston rods, the slot operating the crank shaft as the piston reciprocates in the cylinder, said crank shaft having circular flywheel portions between the crank pins, and said guides having a V shape configuration on both ends to direct lubricating oil to the guiding surface.

2,404,471
FLOOR CONSTRUCTION
Robert H. Carson, Arlington, Mass., assignor to the Government of the United States
Application February 3, 1945, Serial No. 576,116
3 Claims. (Cl. 20—8)

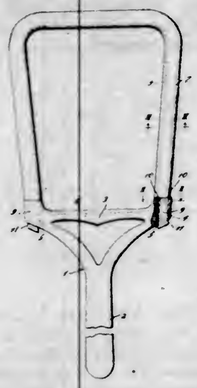


1. An improved floor construction comprising supporting members arranged crosswise with respect to one another, plates fixed to the supporting members at intersection points thereof and being of a size adapted to present corners projecting beyond said intersection points, and squares of surface flooring material detachably secured to the corners of said plates.

2,404,472
HAND MIRROR MOUNT
Joseph Casalino, Forest Hills Gardens, Long Island, N. Y., assignor to Dieplast Corporation, New York, N. Y., a corporation of New York
Application December 5, 1944, Serial No. 566,661
5 Claims. (Cl. 88—102)

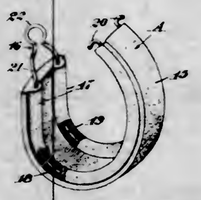
5. A two-piece, molded plastic hand-mirror mount comprising a handle having at the inner

end thereof two, spaced apertures extending in the general direction of the longitudinal axis of the handle, a resilient, open frame having its ends shaped and dimensioned for entry into said apertures, the latter being substantially larger than the said ends to permit lateral movement of such



ends therein, the free spacing of such ends being different from the spacing of said apertures and thereby requiring said frame to be flexed to enter its ends into the apertures, and means for securing said frame ends against withdrawal from the apertures.

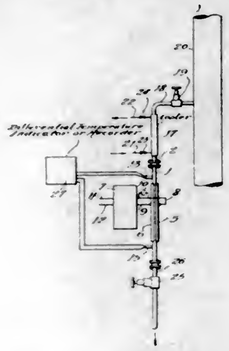
2,404,473
CUSHIONED CLIP
Charles J. Chunn, Sierra Madre, Calif., assignor to Adel Precision Products Corp., Burbank, Calif., a corporation of California
Application May 23, 1944, Serial No. 537,011
10 Claims. (Cl. 248—74)



1. In a clip for supporting wires or a conduit, a strip of flexible cushioning material adapted to form an open loop for embracing and supporting wires or a conduit, and a spring reinforcing and form-retaining wire combined with said strip and formed so as to maintain the strip in the form of a tensioned loop having normally spaced apart ends adapted to be brought together to close the loop and clamp it around the wires or a conduit.

2,404,474
APPARATUS FOR MEASURING CARBONACEOUS DEPOSITS
Robert B. Collins, Downers Grove, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 29, 1944, Serial No. 565,769
4 Claims. (Cl. 73—15)

1. An apparatus of the class described which comprises in combination an insulating conduit, means for passing a stream of material therethrough at a substantially constant rate, means for imposing a field of high frequency alternating electric current across a section of said conduit, and means for measuring the temperature



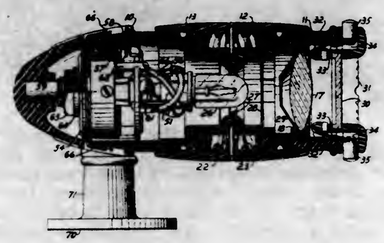
of said stream before and after it passes through said field of high frequency alternating electric current.

2,404,475
RAILWAY TRUCK SPRING BRAKE
Arthur C. Davidson, Chicago, Ill.
Application September 22, 1943, Serial No. 503,389
10 Claims. (Cl. 267—4)

1. In a device of the class described, a member for seating truck springs, a cap member for supporting a truck bolster on the truck springs, a pair of plates extending abreast of each other and substantially vertically from one of said members and individually pivotally secured thereto, a single plate extending substantially vertically from the other of said members and pivotally secured thereto and received between said pair of plates, and spring means yieldingly thrusting the pair of plates towards each other to frictionally engage the opposing surfaces of the other plate.

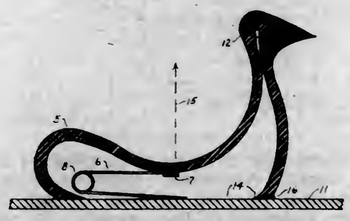
2,404,476
ELECTRIC LAMP
Paul F. Early, New Carlisle, Ohio, assignor to Standard Aircraft Products, Inc., Dayton, Ohio, a corporation of Delaware
Application October 16, 1943, Serial No. 506,482
4 Claims. (Cl. 240—41)

3. In an electric lamp comprising a tubular body member having near its rear end means for connecting a conductor cable therewith, a control unit including a frame removably supported in said body member, having resilient means for retaining the same therein and having an insulating disk adjacent the forward end thereof, a socket for a lamp bulb carried by said frame, projecting forwardly from said disk and including a resilient base on said disk, a rheostat carried by said frame and having an annular winding and a contact member movable over said winding, a terminal adjacent said disk connected with one end of said winding, and a shaft rotatably mounted in said frame, having supporting and electrical connection with the movable contact member of said rheostat and projecting be-



yond the rear end of said body member, an actuating device connected with said shaft, a conducting member supported by said frame and electrically connected with said shaft and said socket, and flexible conductors connected respectively with the base of said lamp socket and the terminal for said rheostat winding and extending rearwardly to and connected with said cable connecting means.

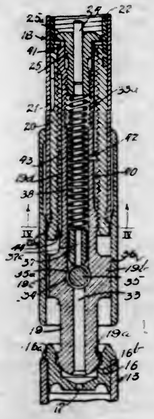
2,404,477
TOY
Robert P. Ellis, York, Pa.
Application February 22, 1945, Serial No. 579,245
2 Claims. (Cl. 46—145)



1. A toy comprising a resilient rubber cup simulating the configuration of an animated legged creature and capable of preventing the entrance of atmospheric air to the interior thereof when its rim is pressed against a smooth surface, a small hole in the wall of said resilient rubber cup for the admission of atmospheric air in restricted quantity to the interior of said cup, and a spring having one end thereof attached to the upper interior wall of said resilient rubber cup and the other end of said spring protruding beyond the rim of said cup, said protruding portion of said spring similating the legs of said animated legged creature configuration.

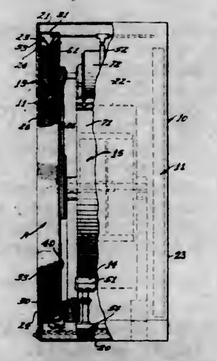
2,404,478
SELF-CLEANING AND LUBRICATING VALVE TAPPET
Herbert H. Engemann, Cleveland Heights, Ohio
Application June 2, 1944, Serial No. 538,454
5 Claims. (Cl. 123—90)

5. In a valve linkage a cam follower, a ball cup carried by the cam follower, a push rod having a ball ended stud seated in said ball cup, said stud having a threaded shank portion, a nut threaded on said threaded shank portion, a torsion spring acting on said nut and said stud for lengthening the assembly, a tube housing said nut, a cup seated in the upper end of said tube, a spring-urged ball ended stud carried by said cup, a rocker arm having a ball seat receiving the ball end of said spring urged stud, said ball cup arranged to receive oil from said cam follower, said stud seated in said ball cup having an oil passageway therethrough, said oil passageway in the stud having bleeder passageways associated therewith, said threaded portions of the stud and nut having oil-distributing grooves communicating with said bleeder passageways



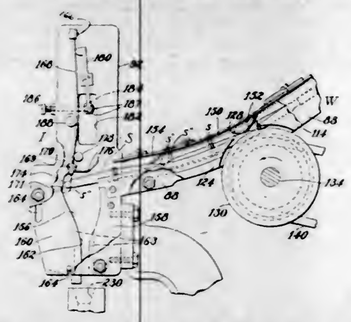
and with the interior of the tube, said cup in the top end of the tube arranged to receive oil from the tube, said spring-urged stud having oil passages associated therewith adapted to receive oil from the cup, and said seat in said rocker arm having an oil passage receiving oil from the spring-pressed stud to lubricate the rocker arm.

2,404,479
EVAPORATIVE COOLER
Bryant Essick, Los Angeles, Calif.
Application August 30, 1944, Serial No. 551,981
11 Claims. (Cl. 261—97)



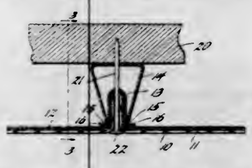
1. A unit for an evaporative cooler including, a vertically disposed shallow box-like body having a transverse part at its upper end, a thin flat porous pad, and means mounting the pad in the body including a toothed jaw member movable relative to said part and clamping the upper edge portion of the pad tight against said part.

2,404,480
ARTICLE-POSITIONING MECHANISM
Mark E. Fernald, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application March 11, 1942, Serial No. 434,301, now Patent No. 2,381,893, dated August 6, 1945. Divided and this application March 30, 1943, Serial No. 481,113
23 Claims. (Cl. 193—43)



1. The combination with means for delivering articles, of an inverting device to which the articles are advanced by the delivering means, said device including a member receiving contact of the end of the article and being movable by said article to effect its inversion and a member movable with the contact-receiving member and against the article as a result of the movement of the contact-receiving member to complete its inversion.

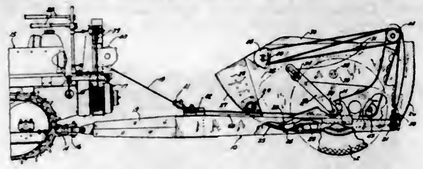
2,404,481
LATHING MATERIAL
Joseph L. Finck, Brooklyn, N. Y.
Application October 13, 1945, Serial No. 622,119
6 Claims. (Cl. 72—117)



1. An insulating building material comprising in combination, a metal lathing material having a plaster receiving front face and a rear face, the material having on its rear face spaced parallel ribs, a layer of paper on its rear face, the paper bearing a coating of heat reflecting material on its rear face, spacing and gripping strips disposed over said ribs serving to hold the paper in assembly with the metal lath, said strips being substantially channel shaped and serving to receive nails for mounting the lathing on the wall and to space the lath from the wall.

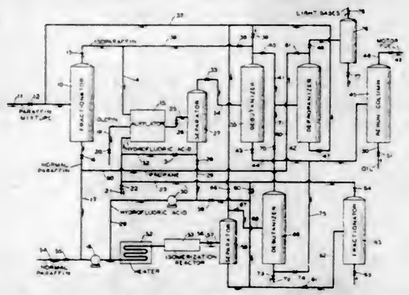
2,404,482
TWO-WHEELED CABLE OPERATED REAR DUMP SCRAPER
Henry C. French, Elm Grove, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 25, 1944, Serial No. 537,212
2 Claims. (Cl. 37—133)

2. In a dig and carry scraper mechanism, a two-wheeled frame including a rear transverse tubular member, a bowl open at both ends and pivotally mounted at its rear end on said rear transverse tubular member, front and rear aprons pivotally associated with the bowl and controlling the front and rear ends thereof, a series of spaced sheaves carried by the scraper frame and bowl, and a control and operating cable anchored at its



outer end to a portion of the frame and having its other end adapted to be pulled in or played out for operating purposes, intermediate portions of the cable being guidingly engaged by said sheaves and an intermediate stretch of the cable being passed through said transverse tubular member.

2,404,483
PRODUCTION OF MOTOR-FUEL HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 12, 1942, Serial No. 434,429
9 Claims. (Cl. 260—683.4)

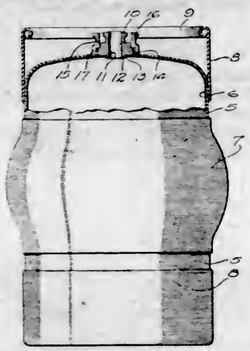


1. A process for producing motor-fuel hydrocarbons, which comprises: isomerizing a low-boiling normal paraffin of four to five carbon atoms per molecule in the presence of concentrated hydrofluoric acid in an isomerization step; separating the effluent from said isomerization step by distillation into an overhead fraction comprising hydrofluoric acid and an isoparaffin of four to five carbon atoms per molecule, and into a bottom fraction comprising hydrofluoric acid and a normal paraffin having four to five carbon atoms per molecule; passing said bottom fraction to said isomerization step; passing said overhead fraction to an alkylating step and alkylating said isoparaffin with an added alkylating reactant in the presence of said accompanying hydrofluoric acid to produce motor-fuel hydrocarbons; and withdrawing the resulting motor-fuel hydrocarbons.

2,404,484
DOUBLE WALLED CONTAINER
Fredrick Gettelman, Milwaukee, Wis.
Original application March 22, 1939, Serial No. 263,380, now Patent No. 2,326,137, dated August 10, 1943. Divided and this application June 17, 1943, Serial No. 491,104
8 Claims. (Cl. 285—49)

1. A double walled container having in combination with an inner liner and an outer wall

having substantially coaxial openings, an access fitting extending through both of said openings, sealing means supporting the margin of the liner from said fitting, and a ring nut screwed to



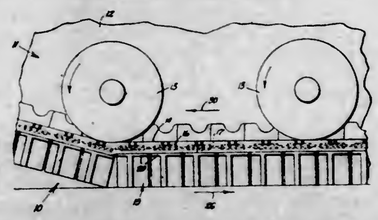
said fitting and providing an annular flange in spaced relation to the fitting, said ring nut being engaged with the outer wall about the opening therein.

2,404,485
RECEPTACLE BASE
Walter J. Gleisner, Chicago, Ill., assignor to W. C. Ritchie and Company, Chicago, Ill., a corporation of Illinois
Application November 8, 1945, Serial No. 627,356
7 Claims. (Cl. 229—5.5)



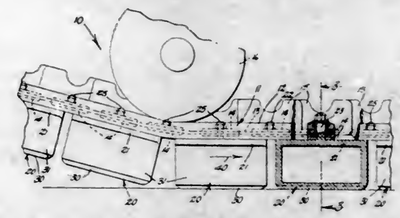
1. In an undercut bottom for application to a receptacle having an internal marginal bead around its bottom mouth of a size to fit firmly over an undercut rim on such bottom to hold the latter to the receptacle, the novel combination of an upper metal-member and a lower fibrous-element, said member having an upstanding integral externally-undercut rim and a plurality of depending, integral, flaring prongs embedded in said lower element thereby fastening said upper member and lower element permanently together.

2,404,486
AMPHIBIAN PROPULSION MECHANISM
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,027
5 Claims. (Cl. 115—1)



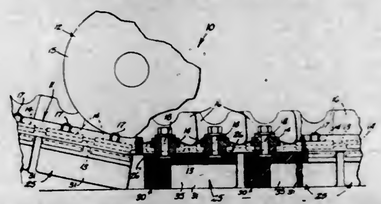
1. In an amphibian propulsion mechanism, the combination of: an endless belt; means for mounting said belt on said amphibian for annular movement; and a series of propulsion grousers on said belt, each grouser being disposed with the tip to tip chord thereof at an acute angle with the direction of movement of said grousers on said belt, the most forwardly disposed portion of each grouser being relatively long and substantially straight and disposed at a smaller angle with respect to said direction than said chord, while the rearmost portion of said grouser is relatively sharply curved toward the direction of movement of said grousers.

2,404,487
AMPHIBIAN PROPULSION MECHANISM
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,028
4 Claims. (Cl. 115—1)



1. In an amphibian propulsion mechanism, the combination of: an endless traction-propulsion belt; means for mounting said belt on an amphibian and driving said belt; a series of grousers secured to said belt, said grousers having water engaging blades disposed below said belt, and blocks extending downward from said belt to form a relatively continuous support for said belt, and protect said blades from being crushed by the weight of said amphibian.

2,404,488
AMPHIBIAN PROPULSION MECHANISM
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,029
4 Claims. (Cl. 115—1)

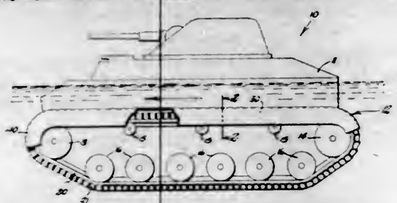


1. In an amphibian propulsion mechanism, the combination of: an endless traction belt; means for mounting said belt on said amphibian and driving the same; an endless series of grousers secured to said belt, each of said grousers comprising a body of rubber and a plurality of attaching means for attaching said grouser to said belt, said attaching means being adapted to have articulating relation with each other when said belt travels around a turning axis.

2,404,489
AMPHIBIAN
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,030
3 Claims. (Cl. 115—1)

1. In an amphibian, the combination of: a hull adapted when afloat to sustain the weight of said

amphibian; traction belt means including a series of grousers provided thereon; means for mounting this belt means on said hull for annular travel so that both the upper and lower flights of said belt means are submerged in water when the hull is afloat as aforesaid, the grousers on the lower flight of said belt means being adapted to support



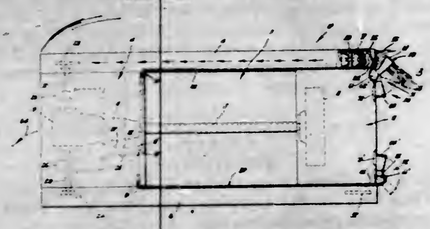
said amphibian on land and to propel said amphibian through the water; and housing means for enclosing the upper flight of said belt means and the grousers carried thereon to prevent an interaction between said grousers and the water such as would produce a counter propulsive thrust.

2,404,490
AMPHIBIAN PROPULSION MECHANISM
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,031
5 Claims. (Cl. 115—1)



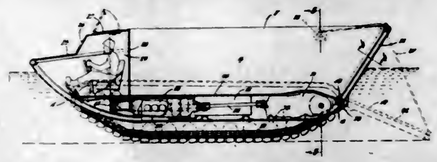
1. In an amphibian propulsion mechanism, the combination of: an endless traction belt having a tread provided on the traction surface thereof; an endless series of impeller blades provided on said belt along one side thereof and out from under said belt, each of said impeller blades including a metal skeleton and a body of rubber bonded to said skeleton, said skeleton lying in a vertical plane, said body of rubber forming the balance of said blade extending laterally outwardly therefrom.

2,404,491
AMPHIBIAN STEERING MECHANISM
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 15, 1943, Serial No. 475,931
7 Claims. (Cl. 115—1)



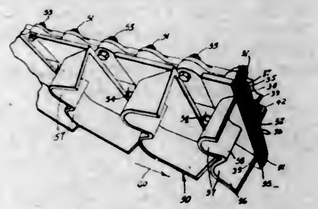
3. In a dirigible water craft, the combination of: a hull; propulsion means provided on said hull, said means in its operation discharging water rearwardly; and a deflector mounted on said hull and adapted to be shifted into the path of said discharged water or out of the path of said discharged water, to assist in the steering of said craft.

2,404,492
AMPHIBIAN
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 15, 1943, Serial No. 475,935
7 Claims. (Cl. 115—1)



1. In an amphibian, the combination of: a hull having a bottom and side walls; two track-laying belts; means for mounting said belts on said side walls of said hull, said belts being equipped with means for propelling said amphibian when afloat, and for supporting and propelling the same when traveling on land, and at a height to give adequate clearance for said bottom to pass over obstacles encountered in land travel; means for closing opposite ends of said hull; a floor cooperating with said side walls and said hull end closing means to provide a cargo compartment in said amphibian, said floor being spaced from said hull bottom to form a shallow power plant compartment between said bottom and said floor; a relatively flat internal combustion engine mounted in said power plant compartment; a transmission disposed in said power plant compartment; means for connecting said engine to said transmission, and means for connecting said transmission to said track-laying belts.

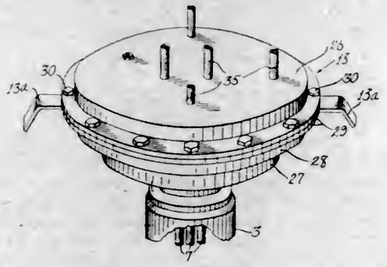
2,404,493
AMPHIBIAN
James M. Hait, San Gabriel, and Philip S. Devirian and Dan R. Rankin, Los Angeles, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 8, 1942, Serial No. 426,026
14 Claims. (Cl. 115—1)



1. A propulsion grouser adapted for mounting on the external surface of an endless traction belt of an amphibian tank for propelling said amphibian in the water and supporting the amphibian on land, which grouser comprises: a blade disposed susbtantially normal to the plane of the belt, the various portions of said blade being of practically uniform depth, said blade being in the form of a pair of cups disposed side by side and opening downwardly and rearwardly, each of the lateral portions of said blade scooping water inwardly toward the longitudinal axis of said blade

so that said water is trapped in said cups and forced downwardly by travel of said blade through the water; and means for attaching said blade to said belt.

2,404,494
ROTARY SEAL
Edwin G. Halby and Robert J. Bushong, Marion, Ohio, assignors to The Marion Steam Shovel Company, Marion, Ohio, a corporation of Ohio
Application August 5, 1943, Serial No. 497,416
23 Claims. (Cl. 285—96.3)



1. In a rotary seal, a stationary member and a rotatable member, one of said members having a sealing surface adjacent the other member and having a plurality of passages extending through said sealing surface, a plurality of annular sealing elements supported between said members and engaging said sealing surface, each sealing element having an annular channel in constant communication with one of said passages in said sealing surface, said other member having means for separately connecting the channel of each sealing element with a source of fluid supply and for pressing said sealing element into firm contact with said sealing surface.

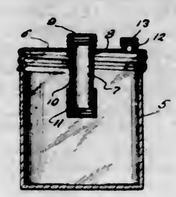
2,404,495
HANDLE
Robert K. Hallum, Brownwood, Tex.
Application March 24, 1945, Serial No. 584,710
4 Claims. (Cl. 30—322)



4. A handle including, an elongate resilient frame having means at its rear end for securing a hand grip thereto and reduced in width toward its forward end, a guide at the forward end of the frame, the forward end of the frame having inwardly facing notches, a transverse plate slidable longitudinally in the frame engageable in the notches thereof, and an elongate shank attached to the plate and slidable in the guide.

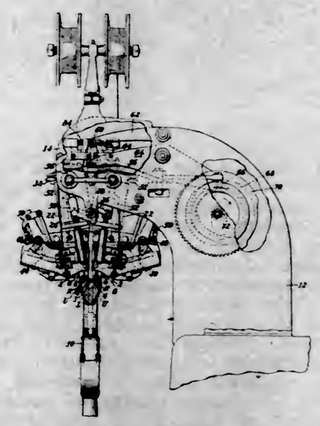
2,404,496
MEASURING AND DISPENSING ATTACHMENT FOR CONTAINERS
Benjamin P. Henin, Bayonne, N. J.
Application November 12, 1942, Serial No. 465,351
2 Claims. (Cl. 222—456)

1. A measuring and dispensing container including a lid for the container, a tube projecting through the lid and open at each end, said tube projecting into the container a distance substantially equidistantly of the top and bottom of the container, a cap removably secured on the outer end of the tube, a sleeve mounted for vertical adjustment on the inner end of the tube to form an extension thereon, a neck carried by the lid, and a cap removably secured on said neck, said tube being adapted to initially discharge a predetermined portion of the contents of the con-



tainer when in an inverted position and upon removal of both of said caps, and said neck functioning as a vent during such initial discharge of the contents and to subsequently function as a pouring means for discharging the remainder of the contents, the adjustment of said sleeve varying the proportions initially and subsequently discharged.

2,404,497
LASTING MACHINE
Herman A. Imhof, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 18, 1945, Serial No. 605,697
12 Claims. (Cl. 12—4)

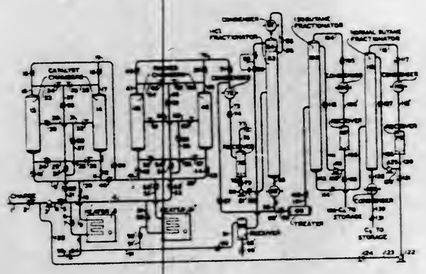


1. A lasting machine having, in combination, means for operating at opposite sides of a shoe to work the opposite marginal portions of a shoe upper over a last having a ribbed insole positioned thereon, said means including a pair of presser-feet arranged to engage the inner faces of said rib at opposite sides of the shoe and overlaying members movable inwardly over the bottom of the shoe at the opposite sides thereof to lay the opposite marginal portions of the upper over the insole and against the outside faces of said rib, and mechanism for thus moving said overlaying members inwardly and toward the rib comprising a power-operated member, common to both overlaying members, and yieldable means operatively connecting each of said overlaying members for movement by the power-operated member.

2,404,498
PRODUCTION OF TOLUENE
Vladimir N. Ipatieff and George S. Monroe, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 27, 1944, Serial No. 528,345
7 Claims. (Cl. 260—671)

1. A process for producing toluene which comprises subjecting a mixture of benzene and methane to contact with a catalyst comprising at least one substance selected from the group consisting of the metals having an atomic number of 26 to 29 inclusive and the oxides thereof at a temperature within the range of about 275° C. to about 450° C. and under superatmospheric pressure within the range of about 10 atmospheres to about 450 atmospheres.

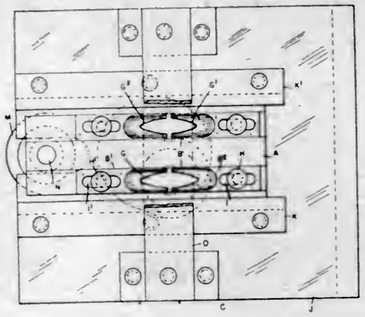
2,404,499
ISOMERIZATION OF HYDROCARBONS
John O. Iverson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 30, 1942, Serial No. 445,145
13 Claims. (Cl. 260—683.5)



1. A process for the isomerization of normal butane which comprises passing a portion of a normal butane charge mixed with hydrogen chloride through a stationary bed of granular aluminum chloride at a temperature and pressure adequate to effect isomerization while simultaneously introducing further portions of the normal butane charge at spaced points in the aluminum chloride bed to control the temperature therein, passing the products from the aluminum chloride bed into contact with granular absorbent material while introducing further portions of the butane charge at spaced points in the absorbent material to control the temperature therein, fractionating the products resulting from contact with the absorbent to recover hydrogen chloride, isobutane and normal butane, recycling said hydrogen chloride to commingle with the normal butane charge, recovering said isobutane and recycling said normal butane to further isomerizing treatment.

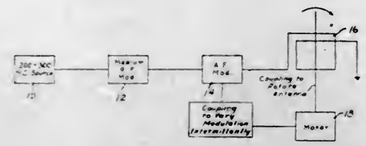
2,404,500
TRIMMING MECHANISM
Conrad Jobst, Toledo, Ohio, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio, a corporation of Ohio
Application May 11, 1944, Serial No. 535,165
5 Claims. (Cl. 164—47)

5. A trimmer mechanism comprising a reciprocatory member, a pair of cutters mounted thereon, each having an extended surface of a cross sectional contour corresponding to the desired contour in the article to be trimmed, each of said cutters being cut away in an oblique plane from the side opposite to said extended surface to intersect the latter and form an aperture therein with a surrounding cutting edge having an apex at one end thereof, said cutters being relatively



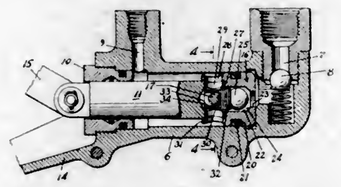
adjustably mounted on said reciprocatory member to space the apices by a dimension slightly less than the amplitude of reciprocatory movement and with the cutting edges opposed to each other, and means for holding the work to be trimmed in operative relation to said cutter at a point substantially in registration with said apices respectively at opposite ends of the reciprocatory movement.

2,404,501
RADIO BEACON SYSTEM
Frank G. Kear, Washington, D. C., assignor to Washington Institute of Technology, Inc., Washington, D. C.
Application January 27, 1942, Serial No. 428,424
7 Claims. (Cl. 250—11)



1. A radio guidance system comprising means for radiating a directional field, means for rotating the field in azimuth about the source of radiations, means for impressing on said field a series of different modulations each of which is impressed only during the rotation of the field through a limited arc, means for receiving said field, means for indicating the modulation having greatest amplitude at the location of the receiving means, other means operable to be responsive only to modulations impressed in the zones on either side of the zone in which occurs the modulation having greatest amplitude at the location of the receiving means, and means for producing an indication of the difference of the amplitudes of the received energy due to the modulations in the zones on either side of the zone in which occurs the modulation having greatest amplitude at the location of the receiving means.

2,404,502
VALVED PUMP PISTON ASSEMBLY
Ottmar A. Kehle, Van Nuys, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application March 6, 1945, Serial No. 581,317
7 Claims. (Cl. 103—178)



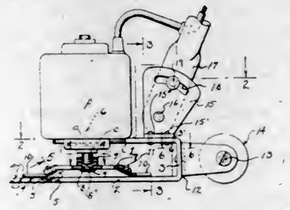
1. In a structure of the character described, a piston cylinder, a piston head having a bore extending axially therethrough, said bore being reduced at one end to define a valve seat interiorly of the bore, the other end of said bore being enlarged to define a piston-rod receiving-socket and a stop shoulder, one end portion of said head being of smaller diameter than the remainder of said head and adapted to define a space between said end portion and the cylinder in which the head is operated, a discharge port extending from the exterior of said reduced end portion and opening into said enlarged portion of said bore, a piston rod having an end portion mounted in said socket and abutting said shoulder, said end portion of said rod having an axial bore registering with the bore in said head and being formed with a discharge port affording communication of said registering bores with the discharge port in said head, a spring loaded check valve assembly mounted on said bores and normally seating on said valve seat, and a fastening pin inserted through said head and rod for holding them together.

2,404,503
PREPARATION OF AMINO ACIDS FROM THEIR SALTS
Morris S. Kharasch and Charles F. Fuchs, Chicago, Ill., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application April 1, 1944, Serial No. 529,225
7 Claims. (Cl. 260—534)

1. The process of preparing an amino acid from its salt, which consists in treating an acid-addition salt of an amino acid and a mineral acid with an epoxide under substantially anhydrous conditions, and recovering the amino acid from the reaction mixture.

2,404,504
ROTARY LAWN TRIMMER
Milton Klose, Manitowoc, Wis.
Application October 6, 1944, Serial No. 557,512
1 Claim. (Cl. 56—25.4)

An edge trimmer comprising a motor having a shaft extended below its base, a frame folded upon itself to form an upper leg terminating with a spanner nested about the motor shaft, securing means connecting the spanner leg and motor base, a web depending from the rear end of the upper leg merged into the lower ground leg of said frame and flared at its outer edge to form a plurality of fingers, the said web being of less width than the spread of the fingers, whereby a narrow throat is developed to shed cut material, a single arm secured to the motor shraft terminating with knives above the face of the lower frame leg, the said knife arm serving as a rotary cut material deflector for clearing the



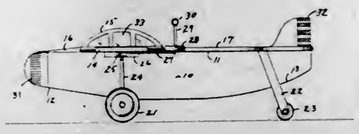
throat of the frame, an eared bracket secured to the frame web, whereby said web is reinforced, a roller journaled in said bracket, its periphery being below the bottom face of the lower frame leg, and a handle extending from the upper frame leg for guiding and rocking the edge trimmer upon the roller.

2,404,505
BABY SUPPORTER
Margaret P. Knecht, Muncie, Ind.
Application June 13, 1944, Serial No. 540,109
1 Claim. (Cl. 155—1)



An appliance of the kind described consisting of an upright cushion pad of suitable height and broadened of base, and having rearwardly inclined and transversely concave frontal surface, a flexible crotch band connected at one of its ends to the lower edge of the frontal portion of said pad, a flat flexible body piece detachably secured to the other end of said crotch band, and complemental elongated tapes integrated with the upper end of the said body piece, substantially as and for the purposes described.

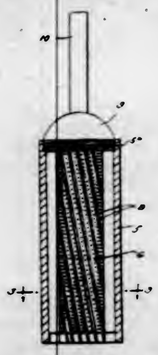
2,404,506
TOY VEHICLE
Gust Lindgren, Youngstown, Ohio
Application December 3, 1943, Serial No. 512,803
3 Claims. (Cl. 280—87.02)



1. In a wheeled toy taking the form of a toy airplane and including a body, a wing member, an axle pivoted to said body member and located beneath the body and wing members, and a steering gear positioned in back of the wing member on the body member, and means establishing connection between said steering gear and said axle,

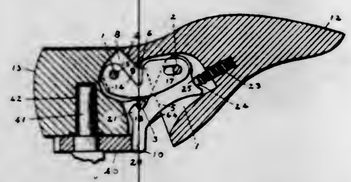
said means including a pair of vertically positioned steering bars on said axle, a pivoted cross piece affixed to the uppermost ends of said steering bars and flexible connections between the said cross piece and the said steering gear.

2,404,507
STUD AND BOLT-CLEANING BRUSH
Oscar E. Link, Woodstock, Ill., assignor of one-third to Harold A. Link, Rochester, Ind.
Application September 28, 1943, Serial No. 504,172
1 Claim. (Cl. 15—104.01)



A brush for removing rust and foreign matter from studs, bolts and similar projecting metal parts, comprising a one piece shell with a cylindrical bore open at both ends, a solid plug threaded in one end of said shell, a shank extending axially from said plug adapted for engagement with revolving operating means, a plurality of helically disposed grooves of dovetail shape extending from end to end on the interior of said shell, insert members having a body of the length of a groove and removably positioned and frictionally retained in said grooves, said body of the insert members having inwardly directed wire bristles.

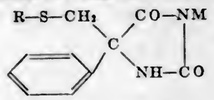
2,404,508
LAST
Henry F. Loewer, Rochester, N. Y., assignor to United Last Company, Portland, Maine, a corporation of Maine
Application June 13, 1944, Serial No. 540,073
7 Claims. (Cl. 12—136)



1. A last having a heel part and a fore part divided by two planes connected by a narrow shelf placed near the sole of the last, each of said parts having an edge that meets in the sole of the last, a link connecting said heel part and said fore part, a pin in each part of the last with which said link engages, said link being recessed on the under side with a deep recess to receive the edge of the heel when the link and fore part of the last is swung below the heel part of the last.

2,404,509
HYDANTOINS AND METHODS OF OBTAINING THE SAME
Loren M. Long, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application September 25, 1944, Serial No. 555,758
9 Claims. (Cl. 260—309.5)

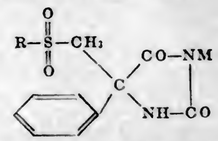
1. A compound having the formula,



where R is a member of the class alkyl, cycloalkyl, aryl, and aralkyl radicals having not more than 7 carbon atoms, and M is a member of the group consisting of hydrogen and non-toxic salt-forming groups.

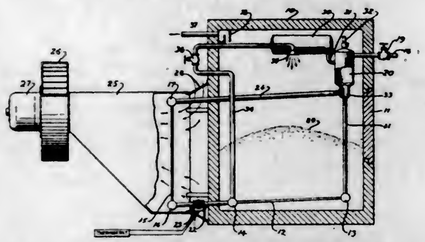
2,404,510
HYDANTOINS AND METHODS OF OBTAINING THE SAME
Loren M. Long, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application September 25, 1944, Serial No. 555,759
8 Claims. (Cl. 260—309.5)

1. A compound having the formula,



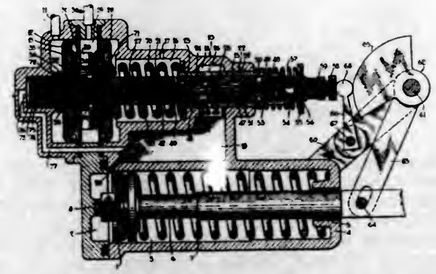
where R is a member of the class alkyl, cycloalkyl, aryl, and aralkyl radicals having not more than 7 carbon atoms, and M is a member of the group consisting of hydrogen and non-toxic salt-forming groups.

2,404,511
REFRIGERATING METHOD AND APPARATUS
Norman E. MacLean, San Francisco, Calif.
Application January 18, 1944, Serial No. 518,769
11 Claims. (Cl. 62—91.5)



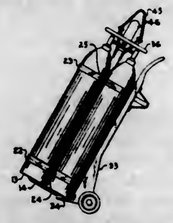
4. Refrigerating apparatus comprising a refrigerating chamber, a fluid circulating system including a heat exchanger disposed inside the refrigerating chamber and a heat exchanger disposed outside the refrigerating chamber, means to supply liquid carbon dioxide to said system, means controllable to release a quantity of said carbon dioxide to deposit snow to envelope the heat exchanger inside the refrigerating chamber, means to close the system whereby heat absorbed by the heat exchanger outside the refrigerating chamber will set up a thermo-siphonic flow of liquid carbon dioxide in the circulating system, and an expansion chamber in communication with the system to accommodate expansion of the carbon dioxide due to increase in temperature when the supply of snow in the refrigerating chamber is depleted.

2,404,512
CONTROL APPARATUS
Harry C. May, East McKeesport, and Glenn T. McClure, McKeesport, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 29, 1944, Serial No. 533,427
6 Claims. (Cl. 121—41)



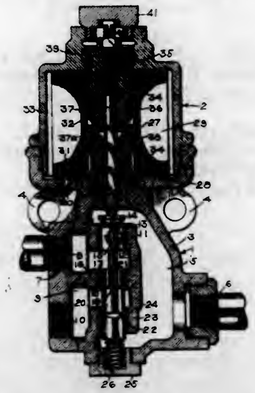
1. A fluid pressure control device comprising spring means, movable control means subject to pressure of said spring means and to opposing pressure of fluid in a chamber, means providing for varying the pressure of fluid in said chamber, a plunger connected with and movable by said control means and having a supply chamber supplied with fluid under pressure, a supply valve carried by said plunger and operable to supply fluid under pressure from said supply chamber to a control chamber, seating means operable to effect closure of said valve, and means subject to pressure of fluid in said control chamber operable upon movement of said plunger by an increase in pressure of fluid in the first named chamber to open said supply valve and operable by pressure of fluid provided in said control chamber to render said seating means operable to effect closure of said supply valve.

2,404,513
GAS CYLINDER HOLDER
Bernard L. McCabe, Daly City, Calif., assignor to Stuart Oxygen Co., a corporation of California
Application January 8, 1945, Serial No. 571,939
6 Claims. (Cl. 211—71)



3. A holder for elongated articles, comprising a bottom plate having a central downwardly dished portion and a relatively raised peripheral portion, radially extending vertical plates attached to the raised portion, an upright attached to the inner ends of the plates, vertical plates above and spaced from said first mentioned plates attached to the upright and extending radially therefrom in the same directions as the first mentioned plates, outwardly extending bolts on the plates, straps adapted to pass around articles between the plates at the levels of upper and lower bolts, the straps having holes to permit slipping them over the bolts, the bolts extending to points short of lines connecting outermost parts of adjacent articles when positioned between the plates, and nuts on the said bolts to retain the straps.

2,404,514
VALVE DEVICE
Glenn T. McClure, McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application November 18, 1944, Serial No. 564,059
8 Claims. (Cl. 277—21)

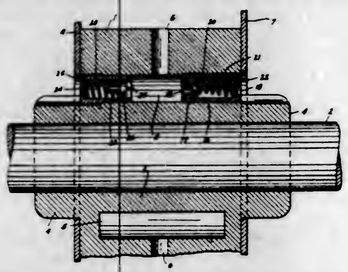


1. A valve device comprising a casing having a wall structure defining a first chamber, a second chamber and a third chamber, said wall structure having passages through which communications between certain of said chambers may be established and disestablished, a valve mechanism disposed in said wall structure and operative for establishing and disestablishing said communication, said valve mechanism when disposed in said wall structure in a certain manner being operable to control a communication between the first and second chambers and to maintain closed a passage between the first and third chambers, and when disposed in said wall structure in a reverse manner being operable to control a communication between the first and third chambers and to maintain closed the passage between said first and second chambers, and means for effecting the operation of said valve mechanism.

2,404,515
HYDRAULIC FLYWHEEL
Frank W. Meyer, East St. Louis, Ill.
Application June 16, 1944, Serial No. 540,719
2 Claims. (Cl. 74—572)

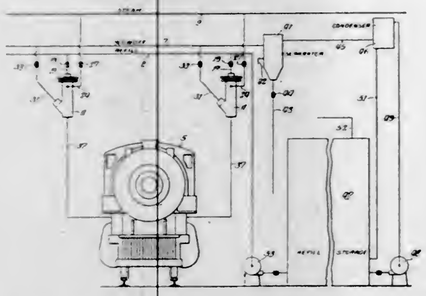
1. In a fly wheel having a hub attached to a driven rotary shaft for rotation thereby and walls attached to the ends of said hub forming an annular chamber about the hub adapted to receive a quantity of liquid, the improvement comprising an annular compartment in the hub, ports opening from said compartment to the periphery of the hub, an expanding device for increasing the aggregate cubical area within said compartment operating under pressure of liquid there-

in, and a valve device operating under pressure of liquid in said compartment for discharging



liquid therefrom under pressure greater than the pressure that operates said expanding device.

2,404,516
METHOD OF CLEANING STEAM BOILERS
Frank W. Miller, Chicago, Ill., assignor to Franclare Company, Chicago, Ill., a corporation of Illinois
Original application July 3, 1941, Serial No. 400,932. Divided and this application February 3, 1943, Serial No. 474,540
3 Claims. (Cl. 122—382)



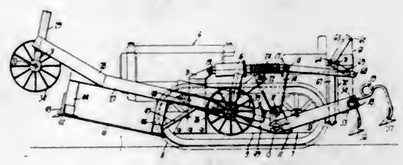
1. The method of cleaning boilers which consists in partially blowing down a boiler leaving therein about one-third of its normal liquid contents under a substantial steam pressure, loosening and removing accumulated solid matter from the boiler without permitting contact of the atmosphere therewith by delivering into said boiler against the accumulated matter water at a pressure above and at a temperature below the pressure and temperature of the boiler, and blowing off the thus loosened solid matter together with the water remaining in the boiler.

2,404,517
CURLING ROD
Stephen Molchan, Jersey City, N. J.
Application August 25, 1944, Serial No. 551,138
2 Claims. (Cl. 132—34)



1. A hair curling device comprising a rod having an integral extension of reduced diameter at one end and provided with a circumferential groove at the other end; a relatively rigid washer rotatably disposed within said groove; and a flexible strap having a hole near each end thereof, said strap detachably secured to the said washer and adapted to be stretched across the rod and looped over the integral extension of the rod on the opposite end thereof.

2,404,518
TRACTOR IMPLEMENT
Edward V. Moran, Billings, Mont., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Iowa
Application February 27, 1941, Serial No. 380,925
13 Claims. (Cl. 97—47)



1. A tractor implement comprising a tractor, a front frame V shape in plan disposed with its apex ahead of the tractor, wheels for supporting the frame directly upon the ground at more than two points, a ground working tool V shape in plan mounted on said frame, and thrust means between and pivoted to said frame and pivoted to said tractor.

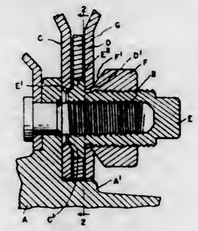
2,404,519
METHOD OF MAKING AQUEOUS DISPERSIONS CONTAINING POLYVINYL ACETATE AND WAX
George Osman Morrison and Henry Michael Collins, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application May 15, 1943, Serial No. 487,186. In Canada November 4, 1942
3 Claims. (Cl. 260—28)

1. A process of preparing a coating composition comprising adding a wax to an aqueous dispersion of polyvinyl acetate produced by emulsion polymerization, in the presence of an emulsifying agent effective to stabilize said dispersion, said polyvinyl acetate being present in an amount ranging from about 30 to about 70% of the said dispersion, said wax being present in an amount ranging from about 12 to about 40% of the total composition, the wax being added when the dispersion has a temperature above the melting point of the wax, then cooling the dispersion slowly with stirring to about room temperature during a period of about 40 minutes to 2 hours whereby the wax constitutes a phase of said dispersion in small discrete particles.

2,404,520
MOUNTING DEVICE FOR DUAL WHEELS
Harvey G. Mosher, Inkster, Mich.
Application May 21, 1945, Serial No. 594,941
4 Claims. (Cl. 301—36)

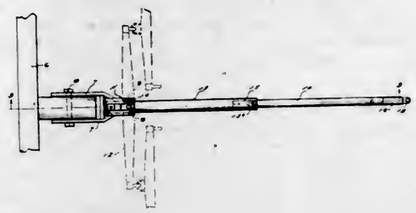
1. In a mounting for dual vehicle wheels, the combination with a hub, a clamping member having a threaded engagement with said hub for securing the inner wheel thereto and a second clamping member coaxial and having a threaded engagement with said first mentioned clamping member for securing the outer wheel to said hub; of a member detachably and non-rotatably engageable with said first mentioned clamping

member and having a bearing against a portion of said hub for locking said first clamping mem-



ber against rotation during the mounting and demounting of said outer wheel.

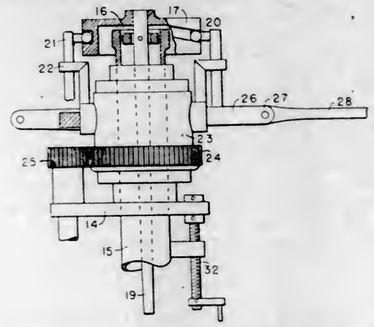
2,404,521
WAGON, TRAILER, AND IMPLEMENT TONGUE
Kenneth G. Myers, Alexander, Iowa
Application April 5, 1944, Serial No. 529,660
1 Claim. (Cl. 280—33.44)



A draft tongue comprising a structure attachable hollow section, a second section slidable within the first section, each of said sections having an aperture therein, detent means secured to said first section and adapted to engage in both of said apertures when said apertures are in alignment, spring means biasing said detent toward said aperture, a finger grip on said spring means adapted for release of the same, and structure attaching means comprising upper and lower projecting members, apertured to receive a pin, and a neck yoke ring hook on the lower of said members at the outer end of the last-mentioned section, and a horse-draft securing means on the first section, said last-mentioned means comprising extending arms bridged by a plate and an apertured lug on said plate.

2,404,522
PITCH CONTROL MEANS FOR SUSTAINING ROTORS
Stephan Paul Nemeth, Chicago, Ill.
Application August 20, 1943, Serial No. 499,340
4 Claims. (Cl. 244—17)

1. In an aircraft sustained by a bladed rotor having blades mounted with freedom for flapping movement, and having controllable mechanism for shifting the line of action of the rotor force to maneuver the aircraft, automatic mechanism operative in different positions of adjustment of said controllable mechanism to periodically vary the geometric pitch angle of the blades, said automatic mechanism being constructed and arranged so as to impart maximum increment of pitch angle to the blades while they are passing through the quadrants of the circle of rotation



in forward and in rearward relation to the aircraft.

2,404,523
CONNECTOR FOR WINDSHIELD WIPER ARMS
Israel Nesson, Lynn, Mass., assignor to Max Zaiger, Swampscott, Mass.
Application March 20, 1945, Serial No. 583,820
10 Claims. (Cl. 287—103)

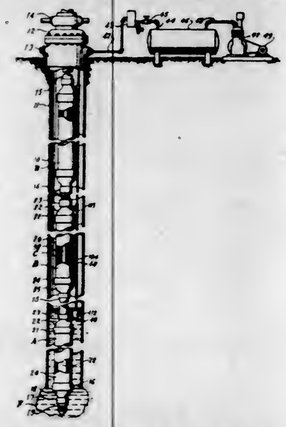


1. A coupling for separably and pivotally connecting a windshield wiper arm to a wiper blade, comprising a connector fastened to the blade and having a side member extending parallel to the blade and provided with a slot entering one end thereof and a relatively large opening therethrough in communication with said slot, and a complemental attachment at the end of the wiper arm, including a transverse hinge bar of noncircular cross-section, the bar being receivable in said opening by passing it edgewise through said slot when the wiper arm is in an inoperative position and being rotatably retained within said opening when the arm is in operative position.

2,404,524
PUMPING MECHANISM
Joseph R. Norton, Tulsa, Okla., assignor to W. C. Norris, Manufacturer, Incorporated, Tulsa, Okla.
Application April 12, 1945, Serial No. 587,885
9 Claims. (Cl. 103—46)

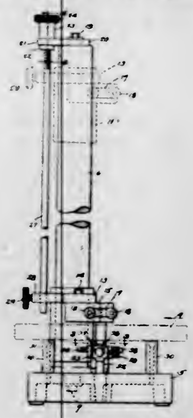
1. In a well pumping apparatus, the combination of, an accumulating chamber adapted to be immersed in the liquid in a well, an elongate expansible sack mounted in said chamber and free to collapse, a conductor for supplying pressure fluid to the upper end of the sack and for exhausting such pressure fluid therefrom connected to said sack and adapted to extend to the top of a well, the lower end of the sack being free and unsupported, an automatic valve for alternating supplying pressure fluid to the conductor and exhausting such fluid therefrom, means for supplying fluid under pressure to said valve, a well tubing extending from the upper end of said chamber, means for discharging well liquid from the chamber to the tubing, means for controlling the supply of pressure fluid to the valve, and

means for controlling the exhausting of pressure fluid from the valve, whereby the pressure fluid



may be exhausted from the sack at a higher rate than that at which it is supplied thereto.

2,404,525
MICROMETER LAPPING FIXTURE
Elmer W. Pearson, Red Wing, Minn.
Application June 8, 1945, Serial No. 598,325
5 Claims. (Cl. 51—217)



1. A micrometer lapping fixture, comprising a base, a column rising from the base, a block mounted for adjustment longitudinally of the column, means for securing the block in its positions of adjustment, means for adjusting the block longitudinally of the column, said block having a V-shaped groove in the face thereof, means on the block for clamping a micrometer barrel in the groove, means for clamping the anvil end of the micrometer to the base, and parallel supports providing a rest for a lapping tool used in lapping the micrometer anvil held between said rests.

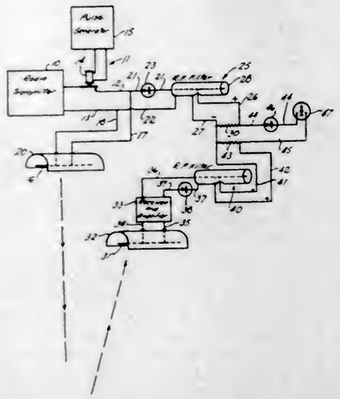
2,404,526
FLASHLIGHT AND SHUTTER SYNCHRONIZER
Friedrich A. Gustav Pirwitz, Rochester, N. Y., assignor to Wollensak Optical Company, Rochester, N. Y., a corporation of New York
Application March 28, 1944, Serial No. 528,422
25 Claims. (Cl. 67—29)

10. In a photographic shutter of the settable type, the combination with a master lever which during its return movement after release effects opening and closing of the shutter, and a flashlight circuit switch, of a spring-operated synchronizing member, an actuator on said synchronizing member engageable with said switch



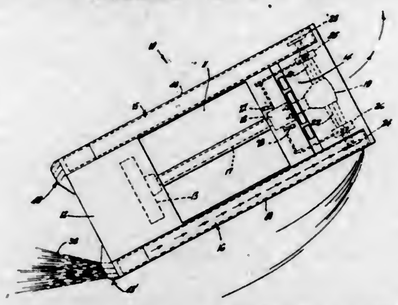
to close the circuit, and cooperating means on the master lever and synchronizing member acting to set and release the synchronizing member by respectively setting and releasing the master lever.

2,404,527
ELECTRIC DISTANCE METER
Gennady Potapenko, Pasadena, Calif.
Application May 2, 1939, Serial No. 271,300
7 Claims. (Cl. 250—1)



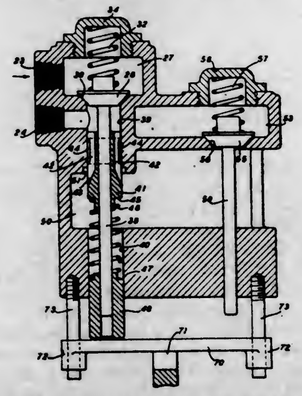
1. Distance measuring apparatus, comprising: an antenna adapted to radiate toward a surface; means including a radio transmitter adapted to periodically energize said antenna, whereby pulses of radio waves are radiated toward said surface; an electric circuit energized by said transmitter coincidentally with said antenna; a rectifier in said circuit, and a filter in said circuit for filtering out radio-frequency components of the current in said circuit, whereby pulses of continuous direct current corresponding substantially in time with said transmitted pulses pass through said electric circuit; means including an antenna and a radio-frequency amplifier for receiving said pulses of radio waves after having been reflected from said surface; a second electric circuit connected to said receiving means; a rectifier in said second circuit, and a filter in said second circuit for filtering out radio-frequency components of the current in said second circuit, whereby pulses of continuous direct current corresponding substantially in time with said received pulses pass through said second circuit; an electrical measuring instrument; and an electric circuit connected with said instrument and with said first and second circuits and adapted to energize said instrument substantially only in response to a pulse passing in said first circuit corresponding substantially in time with one of said transmitted pulses and in the absence of any pulse passing in said second circuit corresponding in time with a received pulse.

2,404,528
AMPHIBIAN STEERING MECHANISM
Dan R. Rankin and George A. Reynolds, Jr., Los Angeles, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 19, 1942, Serial No. 462,484
6 Claims. (Cl. 115—1)



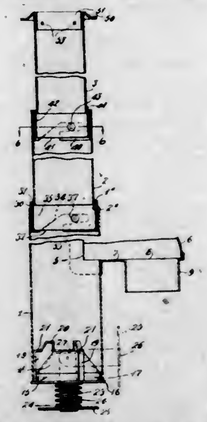
3. In a dirigible water craft the combination of: propulsion means provided on opposite sides of said craft, said means in their operation discharging streams of water rearwardly through the air above the surface of the water sustaining said craft; deflectors mounted on said craft and fixed in the path of said streams of water to deflect the same oppositely; and means for selectively controlling the operation of said propulsion means to effect a steering of said craft by said deflectors.

2,404,529
VALVE
Lester O. Reichelt, Cranford, and Daniel Vaughn Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 12, 1943, Serial No. 486,640
1 Claim. (Cl. 121—46.5)



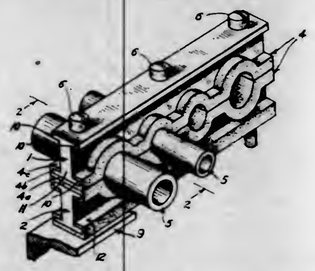
A fluid control apparatus comprising a housing having an inlet port and an outlet port with a connecting passageway therebetween having an outlet end opening to the atmosphere adjacent the outlet port, a valve normally closing the passageway between the ports and having a stem extending through the said outlet end of the passageway, a supply line for a fluid under pressure connected to the inlet port, a fluid line connected to the outlet port, a member movable under varied forces to engage the stem and open the valve to open the passageway between the ports, an element movably disposed in the passageway concentric with the stem and formed to close the outlet end of the passageway when in one position to cause the fluid under its full pressure to pass into the fluid line and to provide an opening varying in size with variations in the position of the element in the passageway to cause varied quantities of the fluid to escape through the said exit end and thereby vary the force of the fluid in the fluid line, and resilient means to apply varied forces to the element to vary the position thereof in the passageway.

2,404,530
TELESCOPING FLUE
Marc Resek, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application July 14, 1943, Serial No. 494,743
12 Claims. (Cl. 126—280)



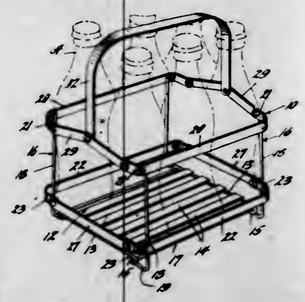
1. A telescoping flue for combustion apparatus having adjacent its lower end means for communicatively connecting it to such an apparatus and being open at the top and unobstructed between its open top and the aforesaid means, said flue comprising at least two sections, one of which fits within the other with appreciable clearance when the sections are in any but fully extended condition, the outer section having a circumferential portion adjacent one end of reduced internal diameter, and the inner section having a circumferential portion adjacent its opposite end of increased external diameter and of a size to fit rather closely said portion of the outer section, the outer and inner sections being surrounded in the vicinity of said portions, respectively, by inwardly and outwardly extending seats, and interengaging means on the two sections that cooperate when the flue is extended and said sections are relatively rotated for urging said seats into firm contact with each other, said means consisting of radial projections on one section and parts on the other section having circumferentially extending cam surfaces wherewith said projections engage.

2,404,531
CONDUIT SUPPORTING BLOCK
Archibald Robertson, North Hollywood, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application December 13, 1943, Serial No. 514,137
3 Claims. (Cl. 248—68)



1. In a conduit supporting block, opposed block sections having complementary conduit-receiving channels extending transversely of opposed faces thereof, laterally extending flanges on said sections, cushions of yieldable material mounted on said flanges and lining said opposed faces and said channels; and means for securing said sections together to clamp the conduits therebetween.

2,404,532
BOTTLE CARRIER
William Parks Rocker, Atlanta, Ga., assignor to Southern Spring Bed Company, Atlanta, Ga., a corporation of Georgia
Application September 8, 1944, Serial No. 553,229
4 Claims. (Cl. 224—48)



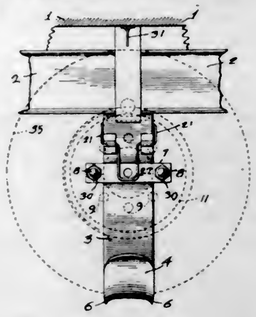
1. A collapsible bottle carrier comprising a rigid rectangular bottom member, a pair of oppositely disposed relatively rigid side frames, substantially L-shaped in vertical section, the bottom bars of the L of each frame normally adapted to rest upon any surface upon which the carrier is supported, said bottom bars being inwardly offset toward each other and hingedly connected with the side edges of the bottom member, and means pivotally connecting the side frames at points spaced from the bottom member for maintaining said side frames in approximate parallelism under all conditions, all whereby in order to collapse the carrier by swinging movement at the hinged connections, one of said hinged connections and the major portion of the bottom member must be elevated as the angle portion of the adjacent L-shaped side frame fulcrums on the supporting surface and, contrariwise a load on said bottom member when the carrier is in partly collapsed position will tend to erect the carrier.

2,404,533
SACK LIFTER
Frederick W. Rodgers, Pacoima, and Alvan M. Palmer, Los Angeles, Calif.
Application November 30, 1945, Serial No. 631,990
1 Claim. (Cl. 294—1)



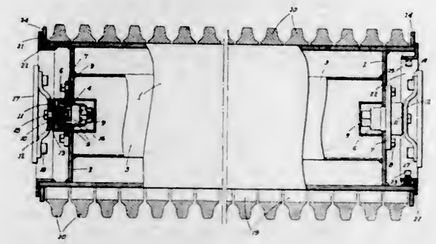
A sack lifter consisting of: a backing member comprising a lower curved portion presenting a concave face contiguous to the bottom edge of such member and a substantially flat upper portion; a pair of spaced extensions extending upwardly from the upper portion of the backing member; reenforcing ribs formed in the lower and upper portions; a hand grip carried by the extensions, the axis of the hand grip virtually paralleling the bottom edge of the backing member; and a sheet of relatively thin metal provided with a large number of punched out, integral, rigid, sharp teeth, such sheet being attached to the concave face of the lower portion of the backing member, said backing member and sheet presenting a virtually flat, toothless, bearing area above the concave face and between the extensions and hand grip.

2,404,534
TIRE RACK
Frederick L. Sargent, Burlingame, and William J. Crader, Mountain View, Calif.
Application June 8, 1945, Serial No. 598,248
1 Claim. (Cl. 224—29)



A tire rack comprising the combination with a vehicle body of a stirrup pivotally suspended from the chassis of said body; tapered and threaded lugs adjustably mounted upon said stirrup and arranged to engage apertures within a tire mounting mounted upon said stirrup; a hasp mounted upon the back of said stirrup; a latch arranged to engage said hasp and retain the same to hold said stirrup in a horizontal position from its pivot when said stirrup is swung to such position; means extending from said latch to the side of said vehicle body for releasing said latch; and releasable means for holding said stirrup in suspended vertical position.

2,404,535
BEARING MOUNTING FOR EARTHWORKING ROLLER UNITS
Theodore G. Schmeiser, Fresno, Calif.
Application February 27, 1945, Serial No. 579,922
2 Claims. (Cl. 308—22)



1. In a roller unit which includes a transversely extending cylinder having heads secured in opposite end portions thereof, and spindle supporting bearing assemblies mounted on each head with the spindles projecting axially outwardly; an attachment bracket corresponding to each spindle and adapted for connection to a draft frame, and means detachably connecting each bracket to the corresponding spindle; said means comprising an attachment head having a taper socket centrally therein, the outer end of the spindle being tapered and seating in said socket, the bracket and head having flat, engaged faces, a tie bolt extending through the engaged bracket and head and threaded axially into the spindle, and means to prevent relative rotation between the bracket and head.

2,404,536
ALKYLATION OF HYDROCARBONS
Louis Schmerling and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 13, 1942, Serial No. 446,930
6 Claims. (Cl. 260—671)

1. An alkylation process which comprises reacting an aromatic hydrocarbon with a compound capable of yielding an alkyl radical, in the presence of a catalyst comprising a catalytic compound having the general formula $RCOOMX_n$ wherein R is an alkyl group, X a halogen, n an integer less than 4 and M a metal capable of forming a metal halide of the Friedel-Crafts type.

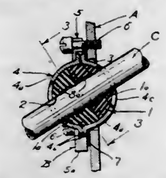
2,404,537
TREATMENT OF HYDROCARBONS
Louis Schmerling and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 6, 1942, Serial No. 449,946
16 Claims. (Cl. 260—683.4)

1. A process for synthesizing hydrocarbons which comprises reacting an isoparaffinic hydrocarbon with an alkyl chloroformate under alkylating conditions in the presence of a Friedel-Crafts type metal halide catalyst.

2,404,538
MANUFACTURE OF ARYLALKENE HYDROCARBONS
Louis Schmerling and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 29, 1943, Serial No. 508,258
8 Claims. (Cl. 260—669)

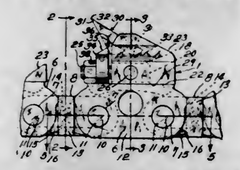
1. A process for treating an aralkyl halide, the alkyl group of which contains more than one carbon atom, to produce an arylalkene therefrom which comprises heating said aralkyl halide in the presence of a dilute aqueous solution of an acid-acting inorganic compound containing less than 5% by weight of said compound.

2,404,539
ADJUSTABLE CONDUIT SUPPORT FOR BULKHEADS
Benjamin F. Schmidt, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application March 24, 1943, Serial No. 480,401
8 Claims. (Cl. 285—30)



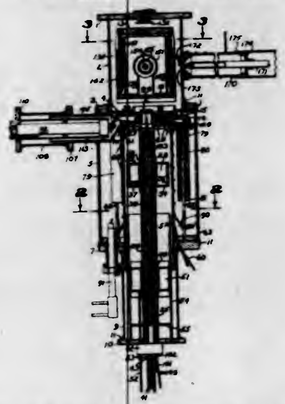
1. In an adjustable conduit support for bulkheads, a grommet through which a conduit extends, and means supporting said grommet in an opening in a bulkhead so that the grommet may be adjusted therein while the conduit extends through said grommet and opening, to position the conduit at various angles, said grommet being formed as a substantially spherical body of yieldable cushioning material, said supporting means including a substantially spherical chamber adapted to contain and to grip said grommet in all positions of a universal adjustment.

2,404,540
CUTTER CHAIN
Leon E. Simmons, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application January 13, 1943, Serial No. 472,281
3 Claims. (Cl. 262—33)



2. In a cutter chain, a chain block having a lateral lug provided with a longitudinal bore, a bit holder having a recess for receiving said block lug and a bolt portion received in said lug bore, said holder recess being shaped to receive a cutter bit, and means associated with said holder for securing a cutter bit in said recess, said bit securing means including a front clamp on said bolt portion and engaging the inner portion of the active cutting face of the bit and means engaging said bolt portion for adjusting said clamp relative to said holder and said block into bit clamping position.

2,404,541
METHOD OF GENERATING HIGH-FREQUENCY OSCILLATIONS
David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Original application November 4, 1940, Serial No. 364,284. Divided and this application June 9, 1941, Serial No. 397,233
10 Claims. (Cl. 250—36)



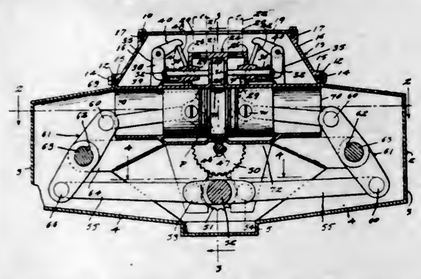
5. The method of generating high frequency oscillations which comprises moving electrons emitted from a source at random velocities in a shallow space charge region over a period of less than one quarter cycle of the desired oscillation period, then rapidly accelerating the moving electrons in substantially the same direction out of said region, and collecting said electrons after a total transit time of substantially one half cycle of said period.

2,404,542
RESONATOR FOR OSCILLATORS
David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Original application November 4, 1940, Serial No. 364,284. Divided and this application June 9, 1941, Serial No. 397,235
21 Claims. (Cl. 178—44)



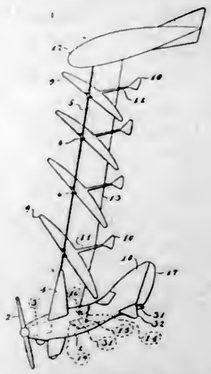
1. A substantially non-radiating resonator having two conducting members separated by insulation comprising an outer shield member and an inner columnar member, and radiation preventing means comprising a conductive skirt of substantially an odd number of quarter-wave's length at the frequency of resonance of said resonator mounted intermediate said members substantially coaxial therewith and spaced from one of said members and conductively connected to the other at its outer end only.

2,404,543
INTERNAL-COMBUSTION ENGINE
Robert Steabner, Detroit, Mich.
Application June 22, 1945, Serial No. 600,954
1 Claim. (Cl. 123—51)



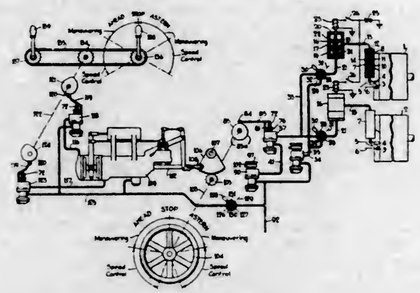
An internal combustion engine comprising a frame, an engine block in the upper portion of the frame, a cylinder in the engine block, inlet and exhaust valves normally closed in the engine block above the cylinder, a pair of pistons in the cylinder, a pair of connecting rods, each connected to a piston, a pair of rocking levers pivoted in the frame and each having one arm connected to a connecting rod, a pair of coupling rods each connected to the other arm of a lever, a crankshaft journaled in the frame and having a pair of cranks each connected to the other end of a connecting rod, a shaft journaled in the frame and geared to the crank shaft, cams on the shaft, a pair of rods slidably mounted in the frame and successively operated by the cams, and levers fulcrumed in the engine block and each coacting with a rod for opening a valve.

2,404,544
AIRCRAFT
William Stelzer, Detroit, Mich.
Application February 9, 1943, Serial No. 475,237
2 Claims. (Cl. 244—34)



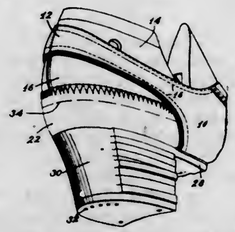
1. A flying machine comprising streamlined lighter-than-air lifting means, flexible tension lines suspended from said lighter-than-air lifting means, said airfoils being pivoted to swing about a lateral axis forward of the center of pressure, a fuselage suspended at the lower end of said tension lines, said fuselage having a power plant, propelling means driven by said power plant, and directional control means operable by the pilot, and a plurality of superposed airfoils pivotally secured to said tension lines intermediate said fuselage and said lighter-than-air lifting means.

2,404,545
CONTROL APPARATUS
Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Original application April 28, 1944, Serial No. 533,145. Divided and this application April 21, 1945, Serial No. 589,640
4 Claims. (Cl. 60—97)



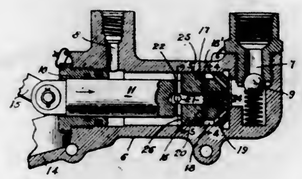
3. In combination, a plurality of internal combustion engines, individual speed control means for each engine adjustable to vary the speed or power output of the engine, master control means operable to control the individual speed control means for all of said engines in unison, manually operable means at one station operable to control said master control means, power control means operable to control said master control means, manually operable means at another station operable to control operation of said power control means, and selector means at said one station selectively operable to render said master control means controllable by either said power control means or by said manually operable means at said one station.

2,404,546
METHOD OF MAKING SHOES
Karl A. Stritter, Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 14, 1945, Serial No. 605,068
7 Claims. (Cl. 12—142)



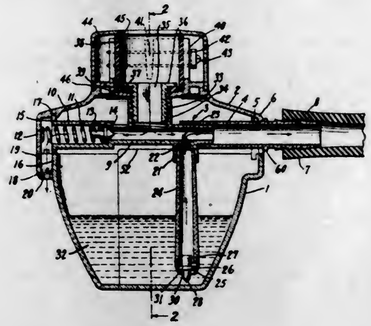
1. That improvement in methods of making shoes which comprises providing an open-heel upper with a complete quarter lining, assembling the upper on a last with an insole, lasting said lining to the heel-seat of the insole, attaching a heel to the shoe, trimming and finishing the heel while the insole is held in place on the last bottom by the lasted quarter lining, and utilizing a portion of the quarter lining to cover the edge face of the insole where it would otherwise be exposed in the finished shoe.

2,404,547
HYDRAULIC PUMP
Carl J. Strid, La Canada, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application March 6, 1945, Serial No. 581,209
8 Claims. (Cl. 103—178)



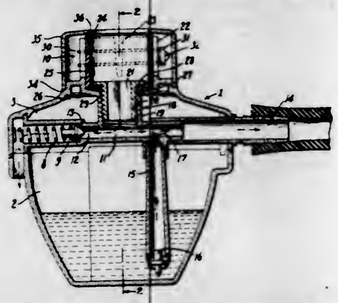
1. In a piston valve-sealing ring unit, a cylinder, a reciprocal piston head in said cylinder having a fluid by-pass passage extending therethrough and a sealing ring groove therein intersecting and forming a part of said passage, and a sealing ring mounted in said groove and positioned and dimensioned to have a constant sealing contact both with the head and with said cylinder, said ring and groove being dimensioned so that the ring will shift into and out of positions for opening and closing said passage upon reciprocation of said head while maintaining a seal between the piston head and the cylinder or bore wall associated with the head.

2,404,548
MIXING CHAMBER
James C. Thomas, III, El Segundo, Calif.
Application March 14, 1945, Serial No. 582,672
8 Claims. (Cl. 299—84)



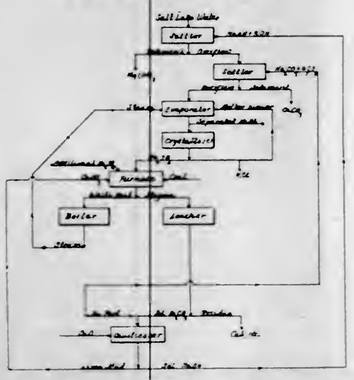
1. A fluid mixing device comprising a mixing chamber having therein a transverse conduit of which one end is a relief outlet and the other end a mixed fluid outlet, a spring pressed relief valve closing said relief outlet, a suction tube depending from said conduit between said outlets, a check valve opening to suction and closing to prevent reverse flow for said suction tube, said suction tube having in said conduit an outlet facing said mixed fluid outlet, and a fluid inlet opening into said conduit between said suction tube outlet and said relief valve, said parts being constructed and arranged so that fluid from said inlet can discharge through said relief outlet and not through said suction tube into said chamber when said mixed fluid outlet is closed, said relief valve being closed and mixed fluid delivered to said mixed fluid outlet when the latter is open.

2,404,549
FAUCET ATTACHMENT
James C. Thomas, III, El Segundo, Calif.
Application March 14, 1945, Serial No. 582,673
5 Claims. (Cl. 285—90)



1. A faucet attachment comprising a compressible collar having an outer open end to receive the faucet spout, said collar having an inner end having an inwardly projecting flange having a central aperture, a resilient washer having a sleeve portion fitting in said collar and having a flange portion fitting on said collar flange, said washer flange having a central aperture, a hollow thimble extending through said aperture and having exterior screw threads, said thimble having a flange overlying said washer flange at one side of said collar flange, and a hollow clamping nut in engagement with said screw threads at the other side of said collar flange, and means for compressing said flexible collar and washer sleeve portion.

2,404,550
METHOD OF OBTAINING MAGNESIA AND POTASH FROM THE WATERS OF THE GREAT SALT LAKE
Alfred M. Thomsen, San Francisco, Calif.
Application November 5, 1941, Serial No. 417,954
5 Claims. (Cl. 23—37)



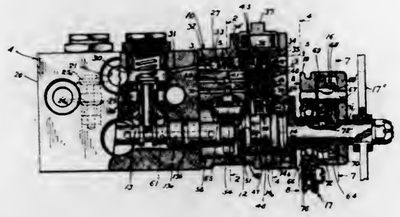
2. The method of obtaining magnesium hydroxide and potassium chloride from brines consisting essentially of a water solution of the sulphates and chlorides of calcium magnesium, potassium, and sodium which comprises; adding sufficient alkali metal hydroxide so as to precipitate the magnesium resident therein as hydroxide and removing said precipitate; adding sufficient alkali metal carbonate to the residual solution from said magnesium hydroxide precipitating step to precipitate the calcium resident therein as calcium carbonate and removing said precipitate; evaporating the resultant solution with attendant separation of sodium chloride until the mother liquor thus produced shall have become sufficiently enriched in alkali metal sulphates to yield a crystallization of said alkali metal sulphates on cooling; cooling said mother liquor to obtain said crystallization of resident sulphates and separating said sulphates; commingling said separated sulphates of the alkali metals with calcium carbonate and carbon and fusing the mixture; separating the resultant mixture of calcium sulphide and alkali metal carbonate into its constituents by dissolving the latter constituent in water and removing the insoluble calcium sulphide; returning a portion of the alkali metal carbonate thus obtained to the process in the second step to remove the calcium resident in said brine; causticizing the remainder of said carbonate of the alkali metals and returning it as hydroxide to the first step of the process in the removal of the magnesium resident in said original brine, thus increasing the potassium content of said brine by the amount of potassium present in said alkali metal sulphate and its derivatives, carbonate and hydroxide; finally, concentrating and cooling the mother liquor from the sulphate separation to obtain a crystallization of resident potassium chloride, separating said potassium chloride and returning the mother liquor thus obtained to the operation at any point prior to the potassium chloride separation.

2,404,551
TREATMENT OF HYDROCARBONS
John D. Upham, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application October 5, 1942, Serial No. 460,853
10 Claims. (Cl. 260—683.5)

1. A process for the isomerization of normal butane to produce isobutane which comprises contacting normal butane admixed with catalyst-activating amounts of hydrogen chloride with an aluminum chloride isomerization catalyst in a reaction zone at conditions effecting the formation of isobutane and a liquid aluminum chloride-hydrocarbon sludge containing substantial amounts of uncombined aluminum chloride, withdrawing said sludge from said reaction zone, fractionally distilling effluents of said reaction zone comprising hydrogen chloride, isobutane, and unconverted normal butane to produce an overhead product comprising said hydrogen chloride, at least partially condensing said overhead product to form a liquid hydrogen chloride-containing condensate, intimately contacting said sludge with at least a portion of said condensate at a temperature below the critical temperature of hydrogen chloride and at sufficient pressure to maintain said condensate in the liquid phase thereby dissolving said uncombined aluminum chloride from said sludge, discharging from the process a resulting insoluble inactive liquid sludge, and returning the resulting solution of aluminum chloride in said hydrogen chloride-containing condensate to said reaction zone for further utilization of said aluminum chloride as catalyst and for further utilization of said hydrogen chloride as catalyst activator.

3. A process for the recovery of the free aluminum chloride content of a liquid sludge comprising free aluminum chloride dissolved in liquid aluminum chloride-hydrocarbon complexes, which comprises selectively extracting such a sludge with liquid anhydrous hydrogen chloride at temperatures below the critical temperature of hydrogen chloride and pressures sufficient to maintain said hydrogen chloride in liquid phase to form a solution of said free aluminum chloride in said liquid hydrogen chloride, and an insoluble liquid comprising said complexes substantially devoid of free aluminum chloride, and recovering said free aluminum chloride from solution in said liquid hydrogen chloride.

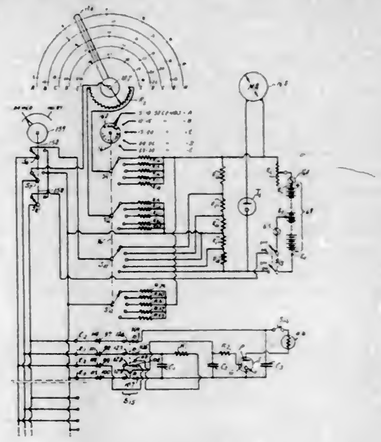
2,404,552
POSITION CONTROL FOR HYDRAULIC ACTUATORS
Jacob B. Van Der Werff, Pasadena, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application February 26, 1944, Serial No. 524,143
5 Claims. (Cl. 121—41)



2. In a position control means, a motor, a control means for starting and stopping and reversing said motor including an operating shaft rotatable in opposite directions, a driven member rotatable on said shaft, a sleeve rotatable on said shaft, a drive gear carried by and rotating with said sleeve, a driven gear of smaller diameter than said drive gear keyed to said operating shaft, a gear supporting shaft rotatably supported by said driven member and arranged for orbital movement around said operating shaft, a planetary gear keyed to said gear supporting shaft and meshing with and having the same ratio as said driven gear, a second planetary gear keyed to said gear supporting shaft and having a lower ratio than and meshing with said drive gear, means for turning said sleeve and said drive gear and holding the latter in a position into which it is moved so that while the drive gear is turning, said planetary gears and said operating shaft will be turned to operate said control means to start said motor, and means responding to a given operation of said motor for turning said driven member and operating said planetary gears to reverse the direction of rotation of said operating shaft and actuate the control means to stop the operation of said motor.

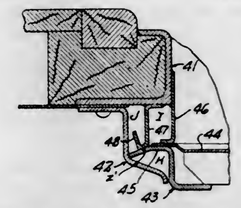
2,404,553
ELECTRIC FUSE AND SETTING APPARATUS
Nathaniel B. Wales, Jr., New York, N. Y.
Application August 6, 1941, Serial No. 405,570
9 Claims. (Cl. 102—70.2)

1. In an electrical time fuse, the combination of a timing circuit, an ignition circuit and a gaseous discharge tube having a discharge path connected effectively in common to said circuits, said timing circuit including a first timing condenser connected to receive a timing charge, a second timing condenser connected to receive a polarizing charge, and a timing resistance connectable between said condensers, said ignition circuit including an ignition condenser connected to receive an ignition charge which is independent of the charges in said first and second condensers,



and an ignition element connected to receive ignition energy from said ignition condenser.

2,404,554
RAILWAY CAR DOOR AND POST STRUCTURE
Axel Wasberg, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application September 5, 1942, Serial No. 457,405
9 Claims. (Cl. 20—26)



9. In a railway car sliding door weather seal construction, a post, a door front edge structure slidable across the door opening in the car wall towards said post into closing position, there being substantially rigid elements on said post and structure movable past each other and cooperating when the door is closed to form a series of three successive pockets each having a relatively wide inner portion and sides converging towards a relatively narrow entrance from the outside of the car, said pockets being arranged to check successively the passage of air and foreign matter inwardly of the car through the joint between the post and the door.

2,404,555
BOLT-ACTION FIREARM
David M. Williams, New Haven, Conn., assignor to Olin Industries, Inc., a corporation of Delaware
Application June 24, 1944, Serial No. 541,904
4 Claims. (Cl. 42—70)

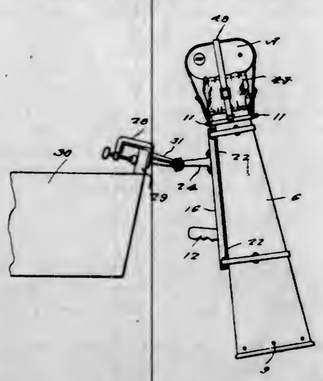
1. A bolt-action firearm, including in combination: a receiver formed with a bolt-receiving chamber and with a longitudinally-extending

guideway located adjacent the said chamber; a breech-bolt having both reciprocating and turning movement in the bolt-receiving chamber of the said receiver, the said breech-bolt having a longitudinal plunger-receiving passage therein and also having a longitudinal clearance-slot intersecting its rear end and a clearance-passage laterally intersecting the said clearance-slot, the said clearance-passage having a rear wall providing a forwardly-facing stop-abutment terminating at one end at the said clearance-slot, the said breech-bolt also being formed in a forward portion of its said clearance-passage with an inclined retracting-cam surface facing generally rearwardly; a firing-plunger mounted in the plunger-receiving passage of the said breech-bolt and having a lateral projection extending outwardly through the clearance-passage in the said



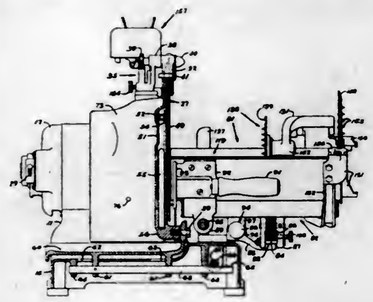
breech-bolt for engagement with the retracting-cam surface and the stop-abutment thereof and having sliding engagement in the guideway of the said receiver, the firing-plunger having a laterally-facing limiting-abutment and having relative turning movement with respect to the said breech-bolt; spring-means urging the said firing-plunger rearwardly; and releasable limiting-means carried by the said breech-bolt and positioned to be engaged by the laterally-facing limiting-abutment of the said firing-plunger before the lateral projection of the said firing-plunger can pass out of engagement with the forwardly-facing stop-abutment in the clearance-passage of the breech-bolt to thus prevent the inadvertent rearward movement of the lateral projection of the said firing-plunger through the longitudinal clearance-slot in the said breech-bolt under the urge of the said spring-means.

2,404,556
UNDERWATER INSPECTION AND PHOTOGRAPHING DEVICE
Richard R. Wirth, Westwood, Ohio
Application April 5, 1944, Serial No. 529,662
3 Claims. (Cl. 95—11)



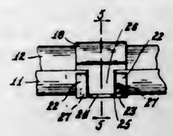
1. An underwater inspection device comprising an elongated tube having a transparent pane at the lower end thereof, and a camera attaching structure at the upper end of the tube including a cushion support for the lens end of the camera, yielding arms for engaging the sides of the camera to steady the same, and straps for extending around the rear end of the camera to hold the same against said support.

2,404,557
FOOD HANDLING APPARATUS
George R. Wood, Montreal, Quebec, Canada, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application April 12, 1943, Serial No. 482,763
6 Claims. (Cl. 146—102)



1. Commodity feeding means for a slicing machine having a commodity tray reciprocable past an exposed cutting edge of a rotary circular knife comprising a frame movable along said tray and generally perpendicular to the path of reciprocation of said tray, an arm pivotally mounted at one end on said frame, a pusher plate mounted on the other end of said arm, said pusher plate having commodity engaging members in at least one of its faces and in at least one of its edges, and a plate overlying said tray and hinged on said frame near that end of said frame farthest removed from the plane of the edge of said knife, the last mentioned plate having commodity engaging projections on its faces and being movable to at least two different positions, a first position being with its face in a plane substantially parallel to the face of the first mentioned plate and to the plane of the edge of said knife, a second position being substantially horizontal and closely overlying said tray.

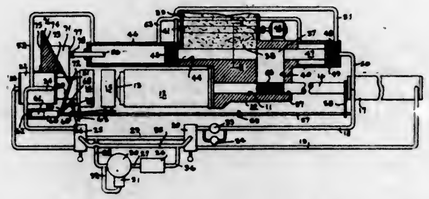
2,404,558
CONTAINER
Edward Yellin, Chicago, Ill.
Application July 7, 1944, Serial No. 543,851
1 Claim. (Cl. 220—35)



A container having a bottom portion and a cover portion, a pair of ears extended outwardly from an edge of the bottom portion, a bearing slot on the inside face of each ear and opening onto their bottom edges, a complemental element on an edge of the cover portion disposed between said

ears, means on said element engageable in and rested at the upper ends of said slots, and means in the bottom portion lying in the bottom plane of and extended between said ears beneath the complemental element to prevent unintended withdrawal of said engageable means.

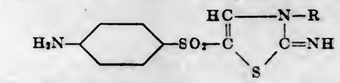
2,404,559
PLASTIC SLUG FORMING AND FEEDING MECHANISM
Bernard D. Ashbaugh, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application July 26, 1943, Serial No. 496,170
10 Claims. (Cl. 18—30)



6. A molding machine including in combination, an injection apparatus for ejecting plastic material including a mold and an injection means for forcing material into the mold, fluid motor means for operating said injection apparatus, fluid motor means for opening and closing said mold, a fluid power circuit for supplying fluid under pressure to both of said motor means to operate the same through an advancing stroke and a push-back stroke and including means for maintaining the push-back pressure on the motor means for operating the injection apparatus lower than the push-back pressure on the mold operating motor means, a briquette forming apparatus constructed as an integral part of said injection apparatus consisting of a briquetting cylinder having an opening therein communicating with said injection apparatus through which briquettes are fed thereto and having a pair of plunger means therein operable in opposition to one another which feed briquettes formed therein into the injection apparatus through the said opening, independent fluid motor means for operating said opposed plunger means in said briquette forming apparatus for forming briquettes therein, fluid conducting means for supplying fluid under pressure applied to the push-back side of said injection motor means concomitantly to both of said independent motor means on one side thereof to operate the same and position said plunger means in spaced relationship to receive molding material therebetween, fluid conducting means for supplying fluid under pressure applied to the push-back side of said mold operating motor to said independent motor means sequentially to operate said independent motor means to first compress molding material therebetween and then feed the compressed material into the injection apparatus, and a mechanism for controlling the stroke of one of said independent motor means connected with and operated by said injection apparatus to control the stroke of the said motor means in accordance with the stroke of the injection means and thereby regulate the quantity of molding material fed between said briquette forming plunger means upon each stroke of operation of the injection apparatus.

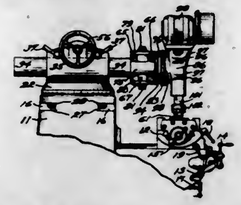
2,404,560
SULPHONES AND METHOD OF PREPARING SAME
Louis L. Bambas, Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application June 13, 1944, Serial No. 540,137
3 Claims. (Cl. 260—239.6)

1. A 2-imino-3-lower-alkyl-4'-amino-5-thiazolonyl-phenyl sulphone having the formula



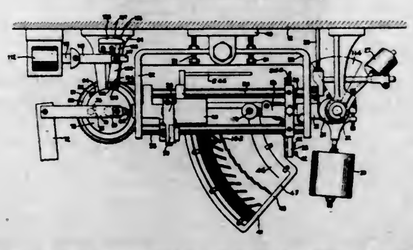
where R is a lower alkyl.

2,404,561
ADAPTER WITH SWIVEL JOINT
Rudolph F. Bannow, Easton, Conn.
Application March 20, 1943, Serial No. 479,836
10 Claims. (Cl. 90—17)



7. An adjustably jointed support structure for mounting a portable self-powered work machining unit on a non-rotatable overarm, comprising a collar block bored to turnably sleeve on the overarm, and a bracket including a head wall for supporting said machining unit in variable relation to said block and spaced arms rigid with said head wall straddling and pivoted to said collar block to swing relative to the latter about an axis crosswise of the axis of said bore.

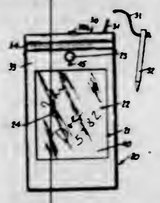
2,404,562
RECORDING SCALE
Lewis C. Barnes, Rutland, Vt., and Raymond B. Holt, Los Angeles, Calif., assignors to The Howe Scale Company, Rutland, Vt., a corporation of Vermont
Application January 6, 1938, Serial No. 183,630
7 Claims. (Cl. 234—5.4)



1. In a weighing scale having a beam, the combination with a shaft, the angular rotation of which is proportional to the displacement of the scale beam, of a chart movable proportionally to the movement of the shaft, said chart being formed with relatively substantially light transmitting areas and substantially opaque areas arranged in predetermined relation corresponding to loads on the scale, a carriage, rods to guide said carriage in a fixed path across the face of

the chart, light responsive circuit closing means and a light source movable with the carriage and disposed respectively in paths of movement upon opposite sides of said chart, a work performing member, a drive shaft, operative connections between the drive shaft and the carriage and the work performing member, a motor, operative connections between the motor and the drive shaft, a motor switch, and restraining means for the drive shaft closing the motor switch when the restraining means is disengaged.

2,404,563
WRITING DEVICE
Martin Berliner, New York, N. Y., assignor to Bermat Products Corp., New York, N. Y., a corporation of New York
Application February 2, 1945, Serial No. 575,743
5 Claims. (Cl. 35—66)



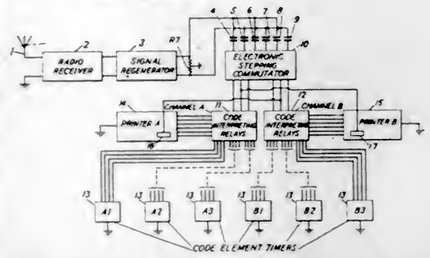
1. In a writing pad of the kind described contained within a casing and having a translucent sheet pressed upon and caused to adhere to a colored wax layer; a push button seated in said casing and operable from without said casing to space said translucent sheet from said wax layer, and engageable interfitting formations forming locking means, said interfitting formations being connected with said push button and being provided in said casing, respectively, whereby said push button is prevented from spacing said translucent sheet from said wax layer upon engagement of said interfitting formations of said locking means.

2,404,564
ELECTRIC SWIVEL CONNECTOR
William F. Boehlke, Los Angeles, Calif.
Application January 27, 1944, Serial No. 519,917
2 Claims. (Cl. 173—324)



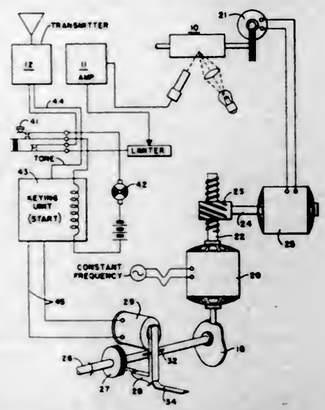
1. An electrical connector comprising male and female sections each having a body of conductive material formed with a longitudinal bore, the male section having an end formed with a substantially spherical head and the female section with a socket rotatably and tiltably receiving the head, jackets of insulation for said sections having extended and overlapped inner end portions, each section having a longitudinal bore, a lining of insulation for the bore of each section, the lining of the female section having its inner end portion flared and countersunk in the inner portion of the socket, a conductor extending longitudinally through the lined bore of said female section and having a cup-shaped contact at its inner end disposed in said socket in engagement with the flared end of the lining for the female section, a conductor fitted into the lined bore of said male member through the outer end thereof, a plunger of conductive material slidable longitudinally in the inner end portion of the bore of said male member, a spring between said plunger and the last-mentioned conductor urging said plunger outwardly and maintaining the plunger in engagement with the cup-shaped end of the first conductor and outer ends of said sections and said conductors being provided with means for connecting circuit wires therewith.

2,404,565
TELEGRAPHY
Ralph W. Bumstead, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 25, 1942, Serial No. 440,455
24 Claims. (Cl. 178—61)



1. In a telegraph system, the method of utilizing alternate marking and spacing elements to formulate the code combinations for each letter of the alphabet and every other character, which comprises starting and ending each such code combination with like elements, interposing a single element of opposite sense between said like elements, and instantly following one code combination by another, the sense of corresponding elements in two successive code combinations being always reversed.

2,404,566
TELEPHOTO SYSTEM
Austin G. Cooley, New York, N. Y., assignor to Times Telephoto Equipment Inc., New York, N. Y., a corporation of New York
Application February 1, 1943, Serial No. 474,247
22 Claims. (Cl. 178—69.5)



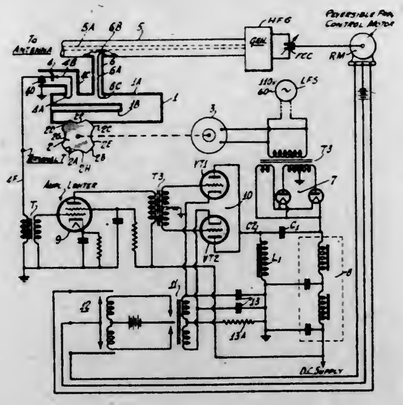
1. A facsimile transmitter comprising a rotatable drum for supporting the picture or copy to be transmitted, means to rotate said drum and means to scan the copy along a non-linear path.

2,404,567
PARTITIONED INFLATABLE SUIT
Russell S. Colley, Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 20, 1942, Serial No. 455,511
10 Claims. (Cl. 128—144)



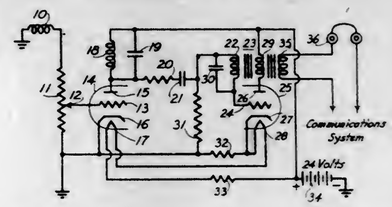
1. In an inflatable suit including a headpiece and a torso portion, the combination of a ring structure uniting said headpiece and said torso portion, a flexible diaphragm supported by said ring and having a plurality of spaced-apart apertures, one of which has a margin adapted to embrace the neck of the wearer in substantially sealing relation, a fluid conduit in another of said apertures, and jet means in still another of said apertures adjacent said ring structure for discharging fluid within said headpiece.

2,404,568
AUTOMATIC FREQUENCY CONTROL
Orville E. Dow, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 21, 1942, Serial No. 451,717
21 Claims. (Cl. 250—36)



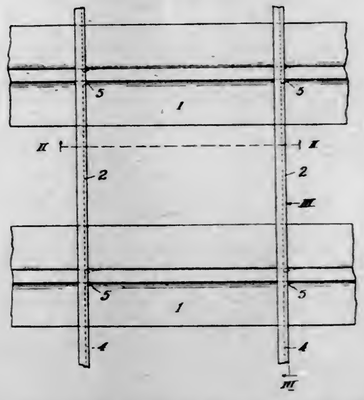
1. In combination, an adjustable electrical device carrying high frequency oscillations, a low loss resonant element, means for exciting said element with oscillations derived from said device, a source of constant relatively low frequency waves, means for cyclically changing the tuning of said element under control of waves from said source, means for rectifying oscillations derived from said cyclically tuned element, means for rectifying waves from said low frequency source, means for combining the rectified oscillations and waves, and means responsive to the combined waves for changing the adjustment of said device.

2,404,569
REGENERATIVE DETONATION DETECTOR
Kenneth R. Eldredge, Berkeley, and Vincent C. Davis, Piedmont, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application March 6, 1944, Serial No. 525,294
6 Claims. (Cl. 179—2)



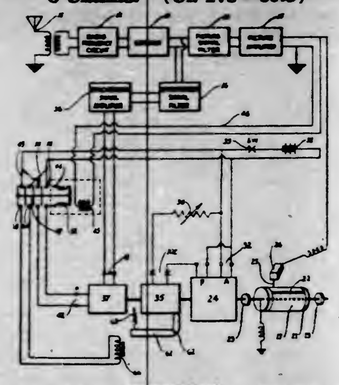
1. An internal combustion engine detonation detector for aircraft having a communications system including audible signal responsive means, comprising means responsive to detonation in said engine and adapted to give an alternating voltage output which is a function of detonation intensity, an electrical oscillator adapted to be tripped by impulses of predetermined amplitude from said first named means to give damped audio frequency wave trains and means for impressing said wave trains upon the audible signal responsive means of said communications system to give an indication of the presence or absence of detonation in said engine.

2,404,570
STRUCTURAL GRATING
Edwin C. Elliott, Crafton, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application October 11, 1944, Serial No. 558,181
7 Claims. (Cl. 189—82)



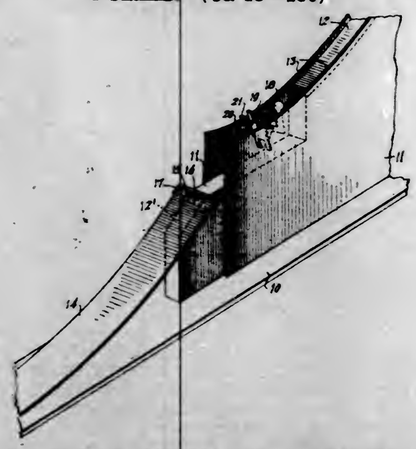
1. A structural grating including primary and secondary members disposed in intersecting relation, the primary members having upwardly open sockets receiving the secondary members therein, said secondary members being formed with a longitudinal continuous locking groove along one side thereof, and said primary members having an integral locking lug formed in a wall of each of said sockets opposite the locking grooves of the secondary members, said lugs having free terminals displaced into frictional engagement with the locking grooves of the secondary members.

2,404,571
SYNCHRONIZING MECHANISM
William G. H. Finch, Newtown, Conn.
Application January 19, 1944, Serial No. 518,837
8 Claims. (Cl. 178—69.5)



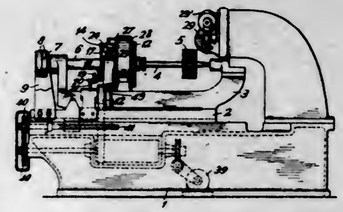
1. In a picture transmission system, a transmitter for generating signals in accordance with the lights and shades of a picture, means for generating a continuous alternating current signal of a frequency representative of the speed of said transmitter, means for transmitting said signals, a receiver for receiving said signals, means for impressing said picture signals upon a picture recording mechanism, means for driving said recording mechanism, comprising a motor, means for impressing said alternating current signal upon a synchronous pilot motor, said driving motor and said synchronous motor being mechanically coupled, said coupling comprising comprising means operative upon a speed difference between said motors to adjust the speed of said drive motor to the speed of said synchronous motor.

2,404,572
TOY SKI JUMPER
Kermit Graetz, Verona, N. J.
Application October 17, 1945, Serial No. 622,747
4 Claims. (Cl. 46—130)



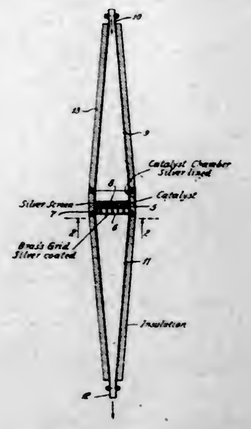
1. A toy of the character described comprising a downwardly sloping track and a toy figure capable of sliding movement down said track actuated by gravity to simulate performance of a somersault at the lower end of said track and a run over which said figure is movable from said track.

2,404,573
GEAR GRINDING MACHINE
Willi Graf, Zurich, Switzerland, assignor to Maag-Zahnrader und -Maschinen Aktiengesellschaft, Zurich, Switzerland
Application March 20, 1944, Serial No. 527,270
In Switzerland Jan. 25, 1943
4 Claims. (Cl. 51—123)



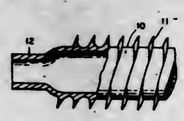
1. In a gear grinding machine for producing the tooth-profile on the work by means of relative rolling motion between the work and the grinding tool, a rotatable grinding tool, a work carrier, work carrier drive elements, means for generating a normal involute motion relative to the tool and applying said motion to said work carrier drive elements, and a motion-altering mechanism interposed between said drive elements and said involute motion generating means for modifying the involute motion applied to said work carrier to compensate for elastic deformation of the gear under heavy load in service.

2,404,574
APPARATUS FOR CATALYTIC OPERATIONS
John A. S. Hammond, Glenbrook, Conn., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y., a corporation of Delaware
Application November 30, 1943, Serial No. 512,390
4 Claims. (Cl. 23—288)



1. In an apparatus for gaseous phase catalytic operations, a catalytic zone of substantially uniform cross-sectional area and of relatively narrow height arranged to receive a relatively shallow catalyst bed, means to support said catalyst bed in said zone, and conduits having portions substantially uniformly conical extending from the catalyst zone on both sides thereof, the cone shaped portions of said conduits being of substantially the diameter of the ends of the catalytic zone at their bases and approximately five times said diameter in length.

2,404,575
METHOD OF MANUFACTURING FINNED TUBES WITH SUPPORT ENGAGING BEARING PORTIONS
Walter P. Hill, Detroit, Mich., assignor to Calumet and Hecla Consolidated Copper Company, Calumet, Mich., a corporation of Michigan
Application June 21, 1943, Serial No. 491,688
6 Claims. (Cl. 29—157.3)



1. The method of producing integral finned tubing with a portion having a plain cylindrical exterior surface comprising relatively rotating and feeding an annularly recessed tool and a length of finned tubing in directions toward each other to effect engagement of one with the other, removing the fins from the leading end of the tubing upon initial engagement of the latter with the tool, and increasing the wall thickness of the stripped portion of the tubing by upsetting said portion against a shoulder in said recess during continued relative movement of the tool and tubing toward each other.

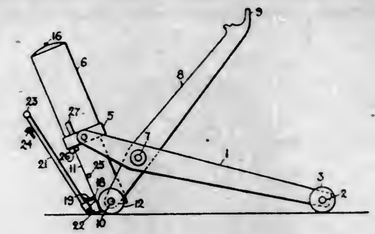
2,404,576
PREVENTION OF FORMATION OF COLORS IN THIOCYANATES
William H. Hill and James H. F. Veltman, Mount Lebanon, Pa., assignors, by mesne assignments, to Koppers Company, Incorporated, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 18, 1944,
Serial No. 531,644
11 Claims. (Cl. 23—75)

1. Colorless technical ammonium thiocyanate containing more than about 0.1% and less than about 1% by weight of a discoloration inhibitor selected from the group consisting in the anions of water-soluble mono- and di-carboxylic acids of relatively low molecular weight.

7. A method for preventing the discoloration of colorless, technical-grade, alkali thiocyanates, said method comprising the steps of: purifying crude alkali thiocyanate and decolorizing the same; and injecting into said salt small quantities of a discoloration inhibitor comprising the R salt having an anion that is selected from the group consisting in the anions of water-soluble mono- and dicarboxylic acids of relatively low molecular weight, where R is the cation of the treated thiocyanate salt.

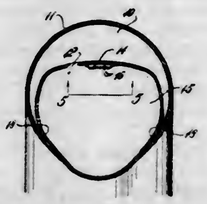
2,404,577
LIFTING JACK
Alexis Jackson, Westport, Conn., assignor to Vadim S. Makaroff, New York, N. Y.
Application July 31, 1943, Serial No. 496,883
6 Claims. (Cl. 254—8)

1. A lifting jack comprising a frame; means to movably support the front end of the frame on the ground, the rear end of the frame being adapted to be raised from the ground; a lifting member pivotally connected to the frame by a horizontal pivoting member, the front end of the lifting member being adapted to engage an object to be lifted; means to movably support the rear end of the lifting member on the ground; a motor consisting of two telescopic members, one telescopic member being pivotally connected to the rear end of the frame, the other telescopic member being pivotally connected to the rear end of the lifting member, one telescopic member being in the form of a cylinder closed at the outer and open at the inner end, the other telescopic member being in the form of a piston slidably fitted in the cylinder; a one-way valve on the cylinder for admitting a fluid under pressure in the



cylinder thereby causing the lifting member to be raised; a handle extending from the rear end of the motor; a pipe extending from the handle into the cylinder; and a manually operable valve on the pipe for releasing the fluid from the cylinder thereby allowing the lifting member to be lowered.

2,404,578
MULTIPLE CHAMBER FLUID CONTAINER
John W. Liska, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 26, 1940, Serial No. 347,713
8 Claims. (Cl. 152—342)

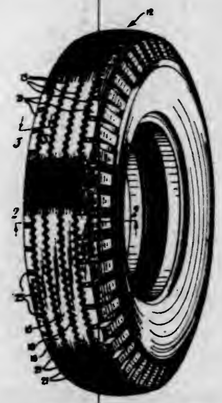


8. A valve in combination with a separating wall having an opening therethrough, comprising a collapsible valve wall providing a chamber over said opening on one side of said separating wall, vent means for the passage of air to and from said valve chamber, means carried by said valve chamber wall positioned for reducing the effective cross-sectional area of said opening in said wall upon collapse of said valve chamber wall and providing a passageway for air regardless of the collapse of said chamber wall, said valve chamber wall being adapted to collapse upon sudden removal of substantial air pressure on the other side of said operating wall from said valve chamber.

2,404,579
TIRE CONSTRUCTION
William S. Coben, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application October 21, 1941, Serial No. 415,851
1 Claim. (Cl. 152—209)

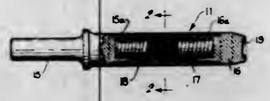
A pneumatic tire comprising a tread portion formed with a plurality of traction elements, said traction elements comprising endless circumferentially extending ribs in the central area of the tread and a circumferential series of longitudinally spaced blocks disposed at the opposite

lateral margins of the tread, one of said ribs being wider than the others and being disposed along the center line of the tread, all of said ribs having their lateral faces uniformly and continuously serrated throughout, said blocks being of greater length than width and having one lateral face confronting an outer rib of said tread, said confronting face of said blocks being serrated throughout their length and their other lateral



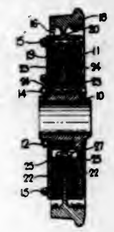
faces being smooth, said blocks being connected to each other by means of a relatively narrow rib whose height is less than the height of the blocks, said traction elements defining circumferential grooves therebetween and the bottom of said grooves having a plurality of upwardly extending bulges at intervals, said intervals being equal to the spacing of three of the said serrations whereby progressive development of a crack in the groove of the tire is prevented.

2,404,580
TOOL
Zolly C. Van Schwartz, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 29, 1943, Serial No. 496,673
1 Claim. (Cl. 74—501)



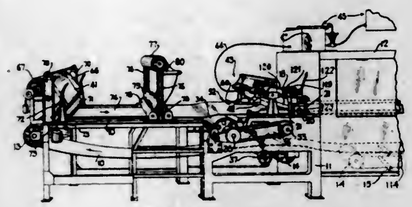
A tool of the character described comprising a shank element at one end thereof, a head element at the other end thereof, the confronting end portions of said shank and head being of reduced outside diameter and formed with respective axial sockets, a flexible axially incompressible element composed of a plurality of concentric metallic abutting coils of wires of rectangular cross-section having its end portions received in respective sockets in said shank and head and permanently secured therein, said coil element capable of transmitting a percussive force in an arcuate course longitudinally of its structure, and a sheath of flexible elastic material covering said coil element and adjacent reduced portions of shank and head and permanently bonded thereto, the outer surface of said sheath being flush with adjacent peripheral surfaces of said shank and head.

2,404,581
RESILIENT WHEEL
Clarence E. Workman, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application September 25, 1943, Serial No. 503,843
8 Claims. (Cl. 295—11)



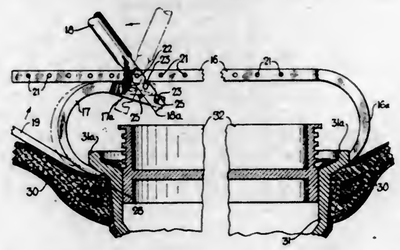
1. A resilient wheel comprising a tire structure formed with a radially inwardly extending flange, a hub structure concentric therewith having radially outwardly extending portions disposed on opposite sides of the tire flange in spaced relation thereto, respective resilient elements disposed between said flange and the hub portions at each side thereof, each of said resilient elements comprising a flat annular body of resilient material having a plurality of thin metallic plates bonded to each of the opposite lateral faces thereof, bolts anchoring the flange-contacting plates to said flange at the inner circumferential margin of each, and bolts anchoring the hub portions to the plates that contact the same adjacent the peripheral margin of said plates.

2,404,582
APPARATUS FOR MAKING SHEET MATERIAL
George P. Bosomworth, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 9, 1944, Serial No. 521,729
14 Claims. (Cl. 18—15)



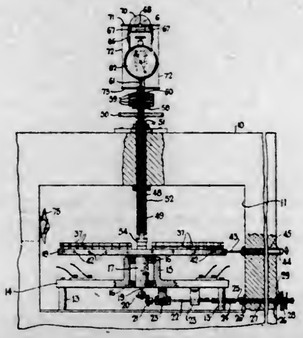
1. Apparatus for making sheet material, said apparatus comprising an endless conveyor and means for driving the same, a doctor blade spanning a horizontally disposed reach of the conveyor, a vertically adjustable beam spanning the conveyor and to which the doctor blade is attached, means for maintaining a pool of fluent composition on the conveyor against one side of the doctor blade, lateral guides for said pool of composition to limit lateral spreading thereof, means on the beam constituting pivotal support for one end portion of each of said guides, and means carried by the other end portion of each guide adapted for rolling engagement with the conveyor to assist in the support of the guides.

2,404,583
TIRE REMOVING TOOL
William H. McCollister, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 1, 1944, Serial No. 538,276
2 Claims. (Cl. 157—6)



1. In a tire removing tool of the character described, the combination of a prying lever having an operative end portion adapted to enter between a tire bead and a tire rim flange, a hook member engageable with a tire rim flange at one side thereof, a second hook member adapted to enter between said tire rim flange and the end portion of the prying lever therebeneath, a hand lever connectible to said hook members and operable to apply leverage thereto to draw them toward each other and thus to force the second hook member farther beneath the tire bead flange, and inter-engaging means on the second hook member and the operative end of the prying lever adapted to move the said prying lever with said second hook member as the latter is forced beneath said rim flange, said second hook member constituting a rolling fulcrum for the prying lever when the latter subsequently is operated to loosen the tire from the rim.

2,404,584
BENDING MODULUS TEST APPARATUS
John W. Liska, Stow, and Frank S. Grover, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 30, 1944, Serial No. 570,634
5 Claims. (Cl. 73—15.6)

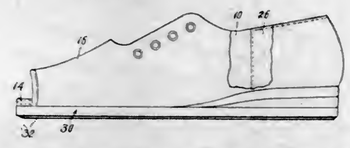


1. In testing apparatus of the character described, the combination of a refrigerator having a cold chamber therein, a turntable therein, supports on said turntable for stock samples to be tested, drive means for said turntable extending through the refrigerator wall, a detent engageable with the turntable to hold the same stationary, said detent extending through the refrigerator wall so as to be manipulated from the exterior thereof, loading means for impressing a determinate load upon a stock sample in the refrigerator, and means for effecting and localizing condensation of moisture in air that may seep into the cold chamber along the elements that extend through the walls of the refrigerator.

2,404,585
LATEX ACTIVATOR
Ernst Schmidt, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application August 11, 1945, Serial No. 610,398
3 Claims. (Cl. 260—776)

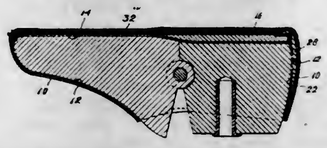
1. Latex containing sulfur, a benzothiazyl accelerator, substantially free of zinc oxide and containing red lead oxide in an amount sufficient to activate the accelerator.

2,404,586
METHOD OF MAKING FOOTWEAR
Roy Maling, West Roxbury, Mass.
Application December 9, 1944, Serial No. 567,362
1 Claim. (Cl. 12—142)



The method of making a shoe upper structure comprising the steps of stitching an upper and lining together at their edges which are to be uppermost in the shoe, stitching the lining to a sock lining all around the edges of the latter thereby to provide a complete sock from whose top edge the upper is loosely suspended, inserting a counter between the lining and upper at the rear part of the shoe, followed by inserting a last in the pre-stitched sock to slip-last the sock, and then applying a sheet layer of pliable material to the under side of the sock lining, and lasting the upper over upon the sheet layer all around the extent of the upper.

2,404,587
FOOTWEAR
Roy Maling, Chestnut Hill, Mass.
Application June 15, 1945, Serial No. 599,635
5 Claims. (Cl. 36—19.5)



1. In an article of footwear, an upper structure comprising an upper element, a lining element, and a pocket strip at the rear part of the article secured to one of said elements and providing a counter pocket between said strip and the element to which the strip is secured, a flanged counter in said pocket, said strip and said elements each having a lasting allowance and one said lasting allowance being turned inward to lie on one side of the flange of the counter, and the other lasting allowances being turned inward upon the other side of the flange of the counter.

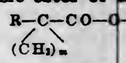
2,404,588

BASIC ESTERS OF 1-ARYL-CYCLOALKYL-1-CARBOXYLIC ACIDS AND A PROCESS FOR THEIR MANUFACTURE

Henry Martin and Franz Häfliger, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application June 2, 1944, Serial No. 538,542. In Switzerland December 16, 1942
4 Claims. (Cl. 260—469)

1. A basic ester of the formula



wherein R stands for a member selected from the group consisting of phenyl and methylphenyl, *m* stands for one of the integers 3, 4 and 5, and *n* stands for one of the integers 2 and 3.

2,404,589

MUFFLER FOR MARINE POWER PLANTS

Henry W. Monaghan, New Orleans, La., assignor to Higgins Industries, Inc., New Orleans, La., a corporation of Louisiana

Application December 27, 1944, Serial No. 569,961
4 Claims. (Cl. 181—45)



1. Muffler for the exhaust of internal combustion engines comprising serially connected units, each unit comprising a closed ended shell and a pipe section passing longitudinally through said shell and extending beyond the ends thereof, means connecting the adjacent ends of said pipe section, transverse partitions in one of said shells dividing it into a plurality of compartments, alternate partitions beginning with the most anterior being perforate, the intermediate partition being imperforate, the pipe section which passes through said shell having fields of perforations communicating with the respective compartments, a pair of spaced butterfly valves in said pipe section located substantially in the planes of said perforate portions, means for moving said valves together to obstruct said pipe sections to compel a serpentine flow of exhaust gases through said pipe section and shell, longitudinally spaced and circumferentially displaced baffles in the anterior portions of the other pipe section, fields of perforations in said last named section immediately forward of the respective baffles, and a field of perforations in the posterior portion of said last named pipe section, all of said fields of perforations in said last named pipe section communicating with the shell which surrounds it, whereby part of the exhaust gases flowing through said last named pipe section are deflected by said baffles into said shell through the forward fields of perforations and returned to said last named pipe section through the field of perforations in its posterior portion.

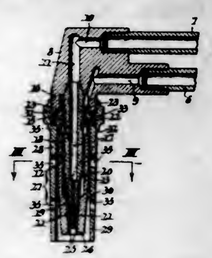
2,404,590

HEAT CONCENTRATING NOZZLE PROTECTOR FOR HEATING, CUTTING, AND WELDING TORCHES, AND THE LIKE

Randolph Delbert Nants, Orange, Tex.

Application April 29, 1943, Serial No. 483,722
2 Claims. (Cl. 158—27.4)

1. A tubular heat concentrating protector for a welding torch or the like having a nozzle head with a threaded neck, and a nozzle with a circumferential flange at one end, said protector being substantially co-extensive with and completely surrounding the nozzle with attendant formation of an intervening annular air space, having air



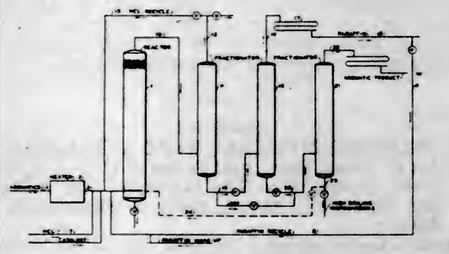
inlet ports at longitudinal intervals, an internal circumferential shoulder adjacent its top to bear against the flange of the nozzle component, and being there internally threaded for screw engagement with the threads of the nozzle head.

2,404,591

PREPARATION OF AROMATIC HYDROCARBONS FROM HYDROCARBON MIXTURES

Ernest A. Naragon, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application June 6, 1944, Serial No. 539,006
9 Claims. (Cl. 260—668)



1. A process for improving the blending value of an aromatic-rich naphtha by isomerization of aromatic constituents which comprises subjecting a fraction of said naphtha boiling in the range of about 212 to 300° F. to contact with an aluminum halide-hydrocarbon complex isomerizing catalyst having a heat of hydrolysis in the range of about 270 to 350 calories, and effecting said contact for a short period of time at a temperature in the range about 180 to 300° F. in the presence of a small amount of hydrogen halide such that aromatic hydrocarbons contained therein undergo isomerization to a substantial extent.

2,404,592

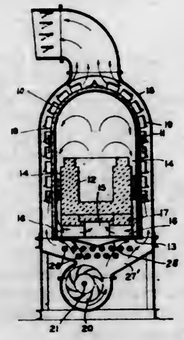
DIRECT FIRED UNIT HEATER

Arthur A. Olson, Youngstown, Ohio

Application August 2, 1941, Serial No. 405,203
2 Claims. (Cl. 126—110)

1. An air heating furnace comprising a casing generally inverted U-shaped in section defining a combustion chamber, a fire box within the lower portion of said casing and having side walls adjacent to but uniformly spaced from the side walls of said casing to provide a thin restrictive

but wide passage for heating gases on either side of said furnace, duct means below said fire box and connected with said passages throughout the width thereof thereby insuring uniform flow in said passages throughout the extent thereof, an outer casing for said furnace adjacent to but uniformly spaced from said first mentioned casing providing a wide passage for a thin blanket of air on either of the sides of said furnace, an air inlet extending throughout the width of each of said air passages at the bottom thereof, an air outlet extending throughout the width of said last mentioned passages at the top thereof, means to circulate a uniform volume of air through said last mentioned passages, means forming an air chamber below said inlets, a plurality of heat exchanging tubes positioned in said chamber and extending throughout the width of said passages



whereby the air flowing into said inlets flows over said tubes substantially at right angles thereto, said tubes connecting with said duct means to conduct the products of combustion away from said duct means, means to distribute the air flowing into said chamber substantially uniformly throughout the length of said tubes, means to conduct air to be heated into said chamber, and a V-shaped air stream divider positioned in said chamber centrally below said first mentioned casing, said divider extending longitudinally throughout the length of said casing and having its wings terminated substantially at the lower ends of the side walls of said first mentioned casing whereby air entering said space will be divided equally between said inlets, said heat exchanging tubes being positioned symmetrically about and immediately below said divider.

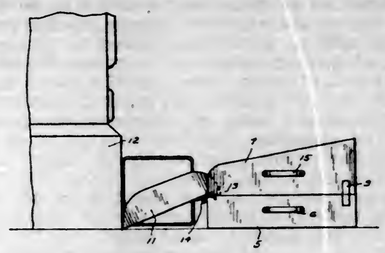
2,404,593

ASH RECEIVER AND SIFTER

Ernest Leon Persons, Meriden, Conn.

Application October 26, 1944, Serial No. 560,496
1 Claim. (Cl. 209—377)

A combined ash receiver and sifter comprising a pair of trays adapted for mounting one upon the other, the lowermost of said trays having an imperforate bottom and the uppermost of said trays having a screen forming its bottom and also provided with an open end, an angle iron member connected to the edge of the screen at the open end of the upper tray and overlying the upper edge of the lower tray to prevent shifting of the upper tray longitudinally of the lower tray in one direction, means at the sides of the trays to prevent lateral shifting movement relative to each other, a chute having one end resting on the open end of the upper tray, and means carried by the chute engaging the angle iron member to prevent longitudinal movement of the trays in either direction relative to each other,



said chute having its other end adapted for placing at the opening of an ash pit to receive ashes therefrom for delivering into the upper tray.

2,404,594

REINFORCED BUOYANT RUBBER DISK

Hans Pfleumer, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware

Application June 6, 1942, Serial No. 446,069
5 Claims. (Cl. 9—8)



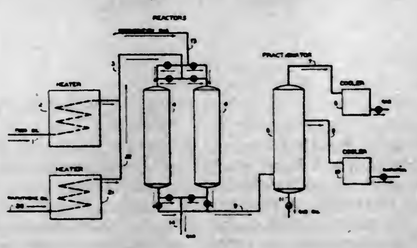
1. A buoyant cell-tight hard cellular rubber member, said member having a plurality of regularly spaced tubular openings therethrough, each of the openings having a lining of a hard rubber skin forming a tubular reinforcement, the outer surfaces of said buoyant member also having a hard rubber skin; the said tubular lining and the said outer skin being integral with each other, and forming reinforcing means adapting the buoyant member to withstand submarine pressures.

2,404,595

CATALYTIC CONVERSION OF HYDROCARBON OILS

Charles Richker and du Bois Eastman, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

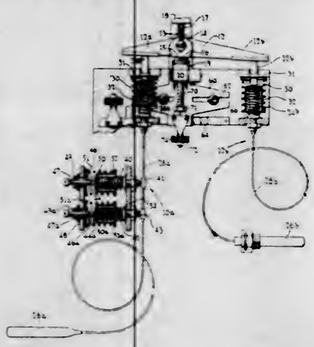
Application December 16, 1942, Serial No. 469,156
6 Claims. (Cl. 196—49)



1. In the catalytic cracking of hydrocarbon oil to produce gasoline involving alternate periods of conversion and reactivation, the method comprising continuously passing through a heating zone a stream of feed hydrocarbon oil having a

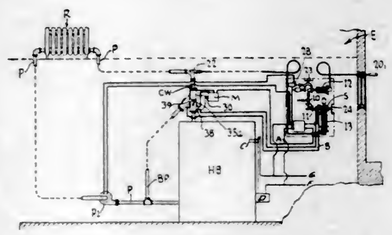
carbon residue of less than 0.2% and a color of less than 200 on the Lovibond ½" cell, heating and vaporizing the oil stream during passage through the heating zone in the absence of a catalyst so as to convert about 8 to 10 volume per cent of the oil into thermally cracked gasoline hydrocarbons, thereafter passing the heated vapors at a temperature in the range 900 to 1050° F. and at a space velocity in the range about 3 to 10 through a catalytic cracking zone and in direct contact with a substantially stationary mass of granular adsorbent catalyst of such activity that upon passing gas oil vapor through the mass at a temperature of about 950° F. and with a space velocity of about 2 for about two hours without interruption the cracked gasoline so obtained amounts to at least 10% by volume of the gas oil and has an octane number of at least about 77 to 78 CFRM, maintaining a rate of hydrocarbon flow through said mass such that the modified Reynolds number is in the range 100 to 1000, continuing without interruption the hydrocarbon flow through the mass for a conversion period of about three to ten hours until carbonaceous deposit formed on the catalyst amounts to about 5 to 20% by weight of the catalyst and such that the weight ratio of gasoline to carbon being produced in the period beyond three to four hours is substantially greater than that obtaining during a period of one hour and less, thereafter discontinuing the flow of hydrocarbons through the mass and reactivating the catalyst mass in situ, by contact with a flowing stream of combustion gases containing about 1 to 2% oxygen, and effecting removal of substantially all heat of combustion as sensible heat in the effluent gas without exposing the mass to temperatures substantially in excess of 1200° F.

2,404,596
TEMPERATURE CONTROLLER
Austin O. Roche, Jr., Indianapolis, Ind., assignor to Hoffman Specialty Co., Indianapolis, Ind., a corporation of Illinois
Application April 10, 1943, Serial No. 482,527
6 Claims. (Cl. 236—91)



1. In a heating system using a circulating fluid to counteract heat exchange between an enclosure and the outside air, control means comprising a thermostat responsive to the temperature of the circulating fluid and a thermostat responsive to the temperature of the outside air, means responsive to the conjoint action of said thermostats to control the heat supplied to said circulating fluid, and a means connected to one of said thermostats to automatically vary the rate of operation of said thermostat in different ranges of temperature at said thermostat.

2,404,597
TEMPERATURE CONTROLLER
Clifford H. McClain, Lansdowne, Pa., assignor to Hoffman Specialty Co., Indianapolis, Ind., a corporation of Illinois
Application April 21, 1943, Serial No. 483,831
7 Claims. (Cl. 236—91)



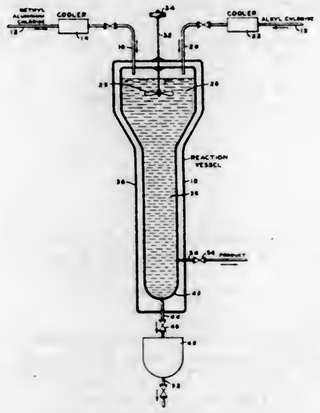
1. In a circulating fluid heating system having means to add heat to the circulating fluid of said system, apparatus for controlling the addition of heat to said fluid comprising a thermostat responsive to outside air temperature, a thermostat responsive to the circulating fluid temperature, a lever system operated by one of said thermostats, said lever system cooperating with means operated by the other thermostat to control the addition of heat to said circulating fluid, and means predeterminedly curvilinearly changing the movement of said lever system by one of said thermostats relative to the means operated by the other thermostat at a greater rate as outside temperature decreases.

2,404,598
METHOD OF MAKING ABRASIVE ARTICLES
Julius F. Sachse, Summit, N. J., assignor to Metals Disintegrating Company, Inc., Elizabeth, N. J., a corporation of New Jersey
No Drawing. Application August 23, 1944, Serial No. 550,862
1 Claim. (Cl. 51—293)

In a method of making a metal powder product having grains of metal oxide abrasive attached to particles of said powder, comprising selecting metal from which abrasive oxide is to be formed, selecting a reducing gas, selecting as a powder metal a metal the oxide of which is reduced by said gas at a lower temperature than is said metal oxide abrasive, forming an alloy of said selected metal, placing said alloy in powder form, subjecting said alloy to an oxidizing gas and then treating the oxidized alloy powder in said reducing gas at a temperature at which the oxide of said powder metal is reduced but below the temperature at which the said abrasive metal oxide is reduced.

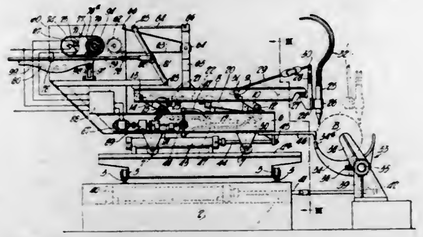
2,404,599
SYNTHESIS OF PARAFFINIC HYDROCARBONS BY REACTING AN ALKYL ALUMINUM HALIDE WITH AN ALIPHATIC HALIDE
Robert Thomas Sanderson, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 29, 1942, Serial No. 452,698
17 Claims. (Cl. 260—676)

1. The process of preparing an alkylated aliphatic compound which comprises reacting an alkyl aluminum halide with an aliphatic halide in a reaction mixture in which the reactive materials consist essentially of said alkyl aluminum halide and said aliphatic halide to replace a



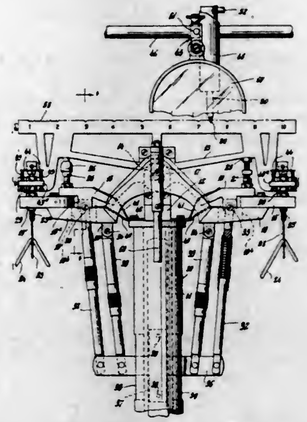
halogen of said aliphatic halide with an alkyl radical of said alkyl aluminum halide.

2,404,600
MACHINE FOR CUTTING BLOOMS AND THE LIKE
Royal J. Scovill, Jr., Gary, Ind.
Application February 18, 1943, Serial No. 476,346
4 Claims. (Cl. 266—23)



4. A machine for cutting articles of the class described comprising, torch cutting means, a frame-like member carrying said torch cutting means, means for reciprocably moving said frame-like member to carry the torch cutting means in an arcuate path at a spaced distance from the workpiece to be cut, a hydraulic cylinder which counteracts the movement of the frame-like member by said last mentioned means, a valve for controlling the flow of the fluid from the hydraulic cylinder whereby the pressure therein is controlled, electrical means for actuating said valve so as to open and close the same, an electrical circuit connected to said electrical means for energizing the same to move the valve toward its open or closed position, a pair of opposed contact members arranged in said circuit, and contacting means arranged in said circuit which is responsive to the speed of movement of the frame-like member and which is adapted to cooperate with said contact members to close the circuit whereby the speed of the frame-like member together with the cutting torches carried thereby is adapted to be controlled, said contacting means adapted to contact one of said contact members so as to close the circuit therethrough whereby the electrical means is adapted to move said valve toward its open position so as to permit an increased rate of flow of the fluid from the hydraulic cylinder so that the frame-like member travels at a greater rate of speed, and said contacting member adapted to contact the other of said contacting members so as to close the circuit therethrough whereby the electrical means is adapted to move said valve toward its closed position so as to decrease the rate of flow of the fluid from the hydraulic cylinder so that the frame-like member travels at a slower rate of speed, and cam means responsive to the position of said frame-like member for varying the responsiveness of the contacting means whereby the cutting speed of the torches is controlled and a predetermined cutting speed is obtained.

2,404,601
MICROBALANCE
William Christopher Seyter, Union City, N. J., assignor to The Torsion Balance Co., New York, N. Y., a corporation of New York
Application May 24, 1944, Serial No. 537,058
8 Claims. (Cl. 265—54)

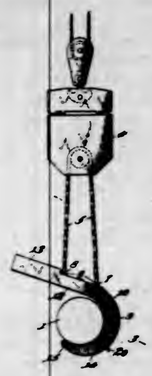


1. A balance comprising a column, a lift rod guided by said column, a balance beam having a central seatable knife edge and terminal knife edges, stirrups seatable on said terminal knife edges, beam arrestment arms, stirrup arrestment arms, and adjustable means connecting said lift rod with the respective arrestment arms for moving them sequentially, to first simultaneously seat the stirrups and to thereafter seat the central knife edge of the beam.

2,404,602
INGOT HOOK
Harry F. Stoffiet, Allentown, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application May 29, 1944, Serial No. 537,823
2 Claims. (Cl. 294—67)

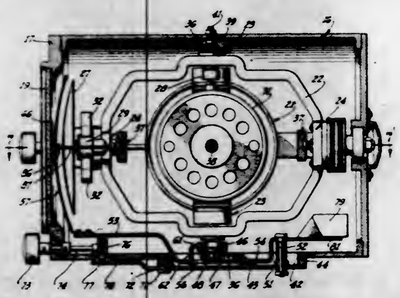
2. A hook for carrying heavy ingots or the like, comprising a pair of J-shaped side plate members of substantial width and thickness, a plurality of diaphragm plates welded between said side members and maintaining said side members in parallel spaced relation, the curved end of the hook being turned downwardly and inwardly to form the load-engaging portion, counterweight means on the shank end of the hook, a pair of lug blocks

welded between the side members in longitudinally spaced relation intermediate the ends of the



hook, and overhead conveying and turning means pivotally attached to said lug blocks.

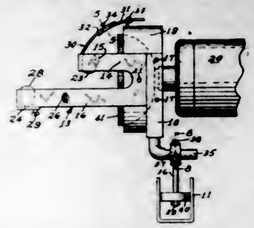
2,404,603
ATTITUDE-INDICATING FLIGHT INSTRUMENT
Thomas O. Summers, Jr., Los Angeles, Calif.
Application January 4, 1943, Serial No. 471,259
10 Claims. (Cl. 33—204)



1. In an attitude-indicating flight instrument, a housing, a gyro vertical mounted therein for freedom of movement about at least two normally horizontal axes, an indicator movably mounted within said housing, means connecting said indicator to said gyro vertical, said connecting means comprising a pivotally mounted lever, manually operable means for moving said lever, means carried by said lever providing a fulcrum, an arm pivotally supported by said fulcrum, said indicator being carried by said arm, and means connecting said gyro vertical to said arm to control movement of said indicator as said housing moves with respect to said gyro vertical.

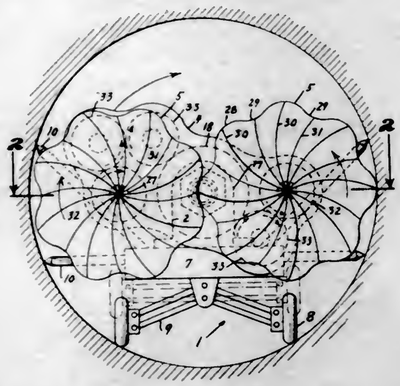
2,404,604
GRINDING TOOL GUIDE
Thomas L. Taylor, Detroit, Mich.
Application December 29, 1943, Serial No. 516,079
3 Claims. (Cl. 51—241)

1. Means for grinding the edge of plate steel comprising, a carriage operable on a plate to be ground, said carriage including a pair of side plates, a grinding tool pivotally mounted for swinging adjustment between said plates, the plates including spaced arms for the reception



of the work therebetween, and rollers journaled on the arms and operable on the work.

2,404,605
TUNNEL BORING MACHINE
Howard O. Thompson, San Francisco, Calif.
Application October 7, 1944, Serial No. 557,662
8 Claims. (Cl. 262—7)

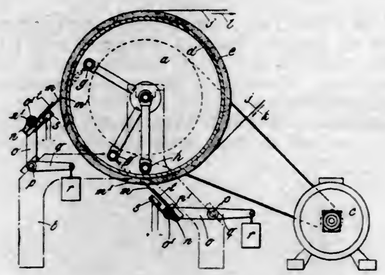


1. In a tunnel boring machine, a main drive shaft, a pair of revolvable drill bits offset with respect to the shaft, means for rotating the drill bits on their own axes and means for revolving the drill bits about the axis of the main shaft the drill bits being substantially in contact with one another so as to drill the entire circular area defined by their combined diameter and having peripheral edges formed with shallow waves intermeshing with one another for crushing the material therebetween.

2,404,606
METHOD AND MACHINE FOR BURNISHING THE SURFACE OF PAPER
Arthur Ronald Trist, London W. 1, England
Application December 30, 1942, Serial No. 470,705
In Great Britain February 21, 1942
8 Claims. (Cl. 92—68)

1. In a method of burnishing the surface of paper, the steps of supporting a paper web to be burnished on a resilient bed and pressing a comparatively rigid blade having at its edge a thickness of more than 10 thousandths and less than 60 thousandths of an inch against said web at an oblique angle relative to the surface of the bed of sufficient magnitude to ensure contact between the web and the blade edge over the entire thickness of the latter and with sufficient force to depress a zone of said web corresponding substantially to the blade edge into said resilient bed while heating said blade and causing a relative

movement of between about 700 and 1000 feet per minute between the surface of said resilient bed and web on the one hand and said blade on the other hand at substantially right angles to the edge of said blade and in such a way that the body of the blade overhangs the part of the web



that is about to pass under the blade edge thereby forming directly adjacent said blade edge in said resilient bed a wave of resilient material, which presses a zone of said web adjacent said depressed zone of said bed into frictional contact with a surface of said heated blade.

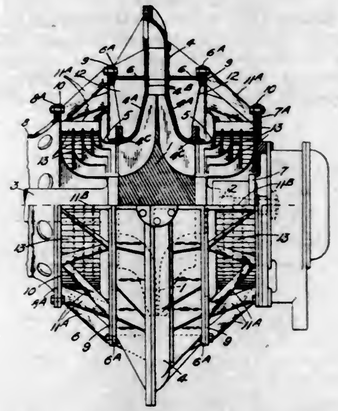
2,404,607
PRODUCTION OF ALKYLATION REAGENT AND ALKYLATION PROCESS
Preston L. Veltman, Fishkill, N. Y., and Lawrence W. Devaney, West Lafayette, Ind., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application May 2, 1942, Serial No. 441,565
10 Claims. (Cl. 260—676)

1. The process which comprises bringing an alkyl halide selected from the group consisting of secondary and tertiary alkyl halides into reactive contact with zinc in the presence of a saturated non-aromatic hydrocarbon liquid to form a solution in which a reaction product of the alkyl halide and zinc is dissolved in the hydrocarbon liquid, reacting said solution with an alkyl halide to cause condensation between said reaction product and said last-mentioned alkyl halide and form a branched-chain hydrocarbon, and recovering said branched-chain hydrocarbon.

2,404,608
PROCESS OF UTILIZING ACID SLUDGE
Joseph H. Wells and Philip J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application October 27, 1943, Serial No. 507,885
4 Claims. (Cl. 260—4)

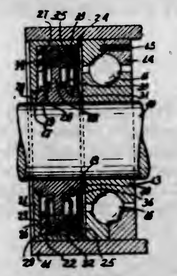
1. In a process of compounding rubber, the method comprising incorporating a dehydrated resin into a rubber composition while compounding the said composition, thereby extending the volume of the rubber in the said composition, the said dehydrated resin being obtained by washing coke oven light oil with concentrated sulphuric acid, diluting the resulting sludge reaction product with water, thereby causing separation of resinous organic matter from the acid, drawing off the said resinous organic matter, neutralizing the said resinous matter, dissolving the resinous matter in water, and dehydrating the neutralized resinous matter.

2,404,609
CENTRIFUGAL COMPRESSOR
Frank Whittle, Rugby, England, assignor to Power Jets (Research and Development) Limited, London, England
Application November 24, 1942, Serial No. 466,806
In Great Britain March 2, 1940
5 Claims. (Cl. 230—128)



1. A centrifugal compressor having its casing supported through the medium of an arrangement of struts extending from the casing to a structural part axially spaced from the casing and surrounding the impeller shafting and comprised in a triangulated structure forming lattice-like frames, the said struts lying at greater radius than air intakes formed between the casing and said structural part.

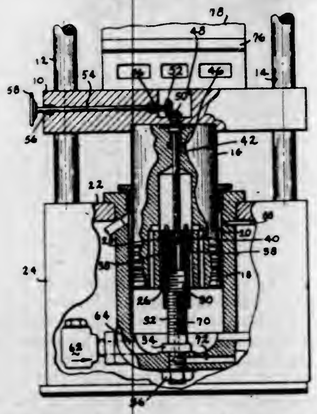
2,404,610
OIL SEAL
Henry Clark Abell, Interlaken, N. J.
Application June 22, 1944, Serial No. 541,490
6 Claims. (Cl. 286—11)



1. A lubricant seal comprising a circular member having a central orifice for receiving a shaft and a radial tongue, a casing having a central orifice in which said member is disposed, said casing being adapted to be secured in a housing, said casing having a circumferential wall concentric with said member orifice and another wall parallel to and spaced from said tongue, the outer circumference of said tongue being spaced from said casing circumferential wall, a lubricating washer in said space between said tongue and said casing circumferential wall, said washer being wider than said tongue, a sealing disc in engagement with each side of said lubricating washer and each disc having a flange concentric with and engaging the adjacent side of said tongue, an elastic resilient and massive rubber washer be-

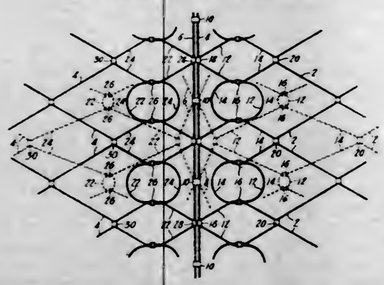
tween said casing other wall and the adjacent sealing disc, a plate spring engaging the outer face of the other of said sealing discs, and means retaining said plate spring, said plate spring and said rubber washer exerting forces urging said sealing discs against said lubricating washer and said tongue.

2,404,611
BOOSTER RAM ADJUSTMENT
Bernard D. Ashbaugh, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware
Application March 9, 1945, Serial No. 581,827
7 Claims. (Cl. 60—97)



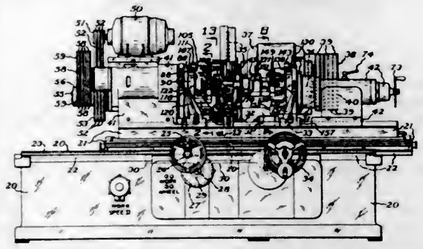
1. In combination in a fluid operable press, a platen, a main ram attached thereto for reciprocating the same, a booster ram for augmenting the speed of said platen in one direction of movement thereof, means of admitting actuating fluid to said booster ram, means responsive to a predetermined relative movement of said rams to connect said rams hydraulically, and means carried by said platen and extending through said main ram and into engagement with said booster ram for adjusting the position thereof relative to said main ram.

2,404,612
TORPEDO NET
Gordon H. Bannerman, Hamden, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application March 6, 1945, Serial No. 581,312
4 Claims. (Cl. 114—241)



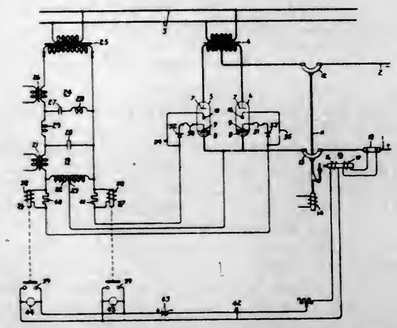
1. A torpedo net structure or the like comprising at least two sections, a pair of stranded wire structures, slip connections fastening the two wire structures together, means for connecting one of said wire structures to one section, a stranded wire structure adjacent the other section, a plurality of connections between the last named wire structure and the second section, and means intermediate the last named connections for connecting the last named wire structure to the second of said pair of wire structures.

2,404,613
CRANKSHAFT GRINDING MACHINE
Albert G. Belden, Carl G. Flygare, and Oiva E. Hill, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 2, 1944, Serial No. 524,736
14 Claims. (Cl. 51—72)



1. In a crankshaft grinding machine having a rotatable spindle, a face plate thereon, a pot chuck for supporting a crankshaft to be ground, a slide interposed between said pot chuck and said face plate to facilitate adjustment of said pot chuck, means to adjust said pot chuck so that the axis of a crankshaft supported thereby moves in a plane normal to the spindle axis, and means to adjust the position of said slide relative to said face plate so that the path of adjustment of the axis of a crankshaft supported by said chuck to determine crank throw passes through the axis of said spindle.

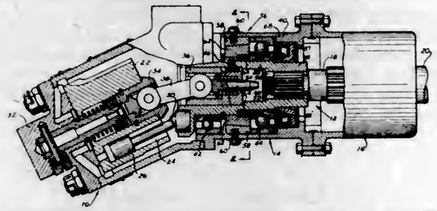
2,404,614
ELECTRIC CONTROL CIRCUIT
David W. Borst, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 1, 1942, Serial No. 456,904
6 Claims. (Cl. 175—363)



2. In combination, a supply circuit, a load circuit, electric translating apparatus connected between said circuits and comprising electric valve means including an anode, a cathode and an immersion-ignitor control member of the type requiring the transmission of a predetermined minimum current thereto in order to initiate an arc discharge between said anode and said cathode, circuit controlling means for controlling the

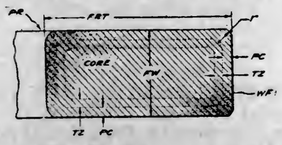
power transmitted between the first mentioned circuits, excitation means for energizing said immersion-ignitor control member, means responsive to current above a predetermined maximum value and connected in series relation with said control member for opening the circuit thereto, and means connected between said excitation means and said control member and responsive to current thereto below a predetermined minimum value for controlling the operation of said circuit controlling means.

2,404,615
BRAKE FOR HYDRAULIC MOTORS
Chester M. Boyd, Silver Spring, Md., assignor to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application August 5, 1944, Serial No. 548,272
8 Claims. (Cl. 192—8)



1. A fluid pressure operated transmission device comprising a fluid pressure operated rotary motor of the type having a rotatable cylinder block including a plurality of reciprocable pistons, a rotary driven member drivably and angularly connected with said block and pistons and movable axially in one direction by force exerted thereon due to rotation of said motor, means for moving said member in the opposite direction upon discontinuance of said axial force, and braking means for arresting rotation of said member when said member is moved in said opposite direction and for releasing said member when the latter is moved in said one direction.

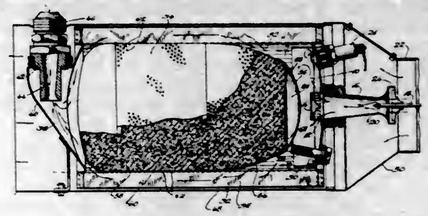
2,404,616
PISTON RING
Harry M. Bramberry, Oak Park, Ill.
Application July 14, 1943, Serial No. 494,615
7 Claims. (Cl. 309—44)



1. A split piston ring having a core formed of an alloy steel having substantially the composition .20–.27% C; .40–.70% Mn; .30% max. Si; 1.10–1.40% Al; 1.00–1.30% Cr; .20–.30% Mo; 3.25–3.75% Ni, surrounded by a prime hard nitrided case which is blended to the core through an intervening transition zone.

2,404,617
HEATING APPARATUS
Stanley J. Budlane, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 23, 1942, Serial No. 463,059
7 Claims. (Cl. 126—116)

1. Heating apparatus comprising a tubular heat exchanger having hollow fins extending lengthwise thereof, means forming a combustion chamber located in one end of said tubular heat exchanger, means for supplying a combustible mixture to said combustion chamber, a muffler located in said heat exchanger and containing sound absorbing material, a sheet metal shell

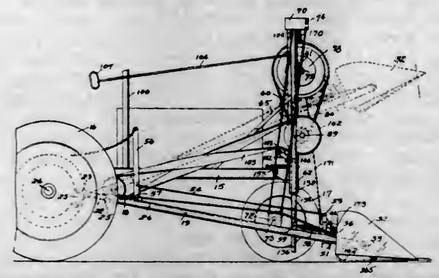


providing an air space interposed between said combustion chamber and said sound absorbing material and forming a heat insulating barrier between said combustion chamber and said material, and means for directing ventilating air over said heat exchanger.

2,404,618
FAT-SOLUBLE VITAMIN FRACTIONATION
Loran O. Buxton, Newark, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application July 13, 1942, Serial No. 450,759
7 Claims. (Cl. 167—81)

1. A process of producing a vitamin A concentrate and a vitamin D concentrate from a marine oil, which comprises saponifying a vitamin A and D-containing marine oil to the extent of 95% to 99% based on the weight of the saponifiable matter present therein whereby substantially all of the vitamin A esters are split and substantially no vitamin D esters are split, separating the unsaponified fraction containing the vitamins from the saponified fatty matter and extracting said unsaponified fraction with a highly polar selective solvent which is characterized by being miscible with vitamin A alcohols but immiscible with vitamin D esters to recover a vitamin A concentrate, the residue constituting a vitamin D concentrate.

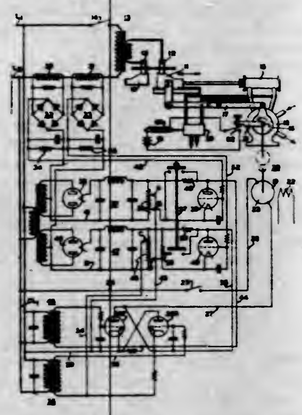
2,404,619
LOADING MACHINE
Gilbert E. Coats, Fort Dodge, Iowa
Application March 31, 1945, Serial No. 585,881
7 Claims. (Cl. 214—141)



1. A loading machine including a portable frame and an upright frame carried at one end of said frame, a pair of pivoted telescoped lifting arms arranged at opposite sides of said frame, means pivotally supporting said arms at their rear ends on said portable frame, with each of said arms including a telescoping member mov-

able forwardly of said upright frame, a load carrying unit supported on the front end of said telescoping members, flexible lifting means for said arms, means supporting said flexible lifting means at one of their ends adjacent the top of said upright frame, means connecting the opposite ends of said flexible lifting means at positions on said telescoping members such that when said arms are telescoped and in a lowered position, said flexible lifting means are inclined rearwardly and downwardly from the top of said upright frame, and means for concurrently raising and lowering said flexible lifting means to pivotally move said arms, said lifting means, on raising thereof, being movable to positions substantially within the plane of said upright frame whereby said telescoping members are extended forwardly of said upright frame.

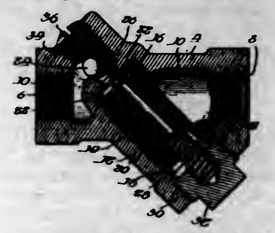
2,404,620
CONTROL OF FLASH WELDING
Joseph H. Cooper, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application February 1, 1944, Serial No. 520,582
10 Claims. (Cl. 219—4)



1. In electric-flash-butt welding apparatus having a welding power transformer, a normally fixed platen and a movable platen adapted to hold work pieces, a hydraulic cylinder to move said movable platen, and a follow-up valve in control of the flow of fluid under pressure to opposite ends of said cylinder; the combination of means to move a movable control element of said follow-up valve comprising a direct current motor, and means to energize the armature of said motor in alternate directions and with controlled intensity comprising a source of alternating current and a circuit interconnecting said source and armature, said circuit including in series therein a pair of controlled electric discharge devices connected in inverse parallel relation.

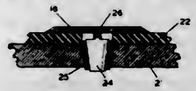
2,404,621
GREASE STRAINER
Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 31, 1943, Serial No. 481,221
4 Claims. (Cl. 210—166)

1. In a strainer device, the combination of a body member having inlet and outlet openings with a passage connecting them for flow of fluid from said outlet to said inlet, said passage including a port, a valve seat around said port, a check valve movable in the direction of flow to engage said seat and close the port, a screening element interposed in the passage between said check valve and the outlet and slidable toward and from said port, spring means urging the



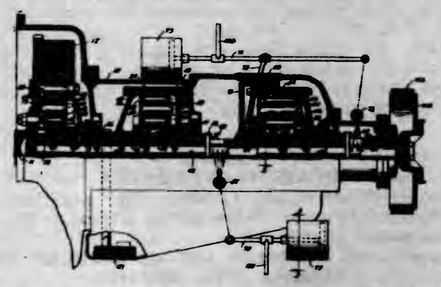
screening element toward the port, and means extending from said screening element into engagement with the valve and operative to hold the valve open until the screen becomes so clogged that the pressure of fluid entering at the inlet is sufficient to move the screening element away from the port in opposition to said spring means.

2,404,622
WELL LOGGING APPARATUS
Richard L. Doan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 10, 1942, Serial No. 434,124
1 Claim. (Cl. 175—182)



In apparatus for electrically surveying a bore hole the subcombination of a fluid tight housing, having an inwardly tapered hole formed in its wall, an electrode band around the housing, covering the hole, an electrical connection from the electrode to the inside of the housing comprising a plug tapered to correspond to the taper of the hole and a spring between the electrode and the plug, and electrical insulating material between the electrode and the wall, and between the plug and the wall forming the walls of the hole, at least the insulating material between the plug and the wall forming a fluid tight seal.

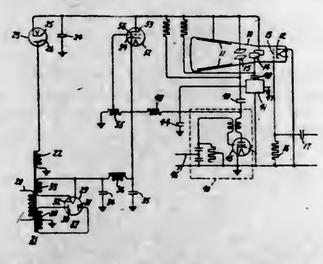
2,404,623
TORQUE TRANSMITTING MECHANISM
Adiel Y. Dodge, Rockford, Ill.
Application February 14, 1944, Serial No. 522,222
13 Claims. (Cl. 74—293)



1. In a torque transmitting mechanism, a torque transmitting unit comprising a planetary

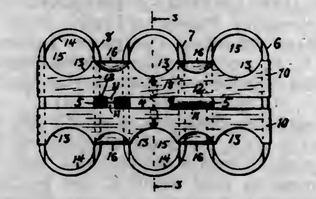
differential gear set including a sun gear, a series of planet pinions meshing with the sun gear, and a ring gear meshing with the planet pinions, a gear carrier carrying the planet pinions including side plates overlying the ends of the teeth on the sun and ring gears, means between the plates engaging the ends of the gear teeth whereby the gear set forms a fluid pump, means forming inlet and outlet ports for the pump, valve means controlling the inlet and outlet ports, a supporting member adjacent the gear set, elongated pins carried by the supporting member and slidably connected to the ring gear whereby it can align itself with the gear carrier, and torque transmitting connections to the sun gear, the gear carrier and the supporting means.

2,404,624
VOLTAGE REGULATOR FOR ELECTRON DISCHARGE DEVICES
Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application January 23, 1943, Serial No. 473,362
6 Claims. (Cl. 315—14)



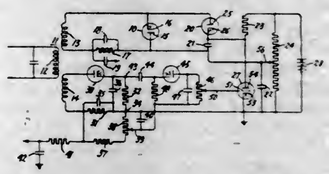
1. In combination, a first electron discharge device having an anode, a cathode and a control electrode, a source of voltage connected between said anode and said cathode, and means for preventing changes in the voltage between said anode and said cathode due to changes in the current flowing therebetween, said means including a second electron discharge device connected in parallel with the anode to cathode path of said first device and having an anode and a cathode and a control electrode, said means also including means connected in the cathode circuit of said second device for providing a predetermined bias on said control electrode of said second device whereby current flows through said second device to compensate for changes in current flowing between the anode and cathode of said first device.

2,404,625
BOTTLE CARRIER
Joseph J. Druhot, Fort Wayne, Ind.
Application November 3, 1944, Serial No. 561,649
2 Claims. (Cl. 294—87)



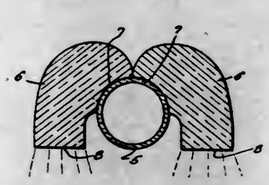
1. In a bottle carrier, a hanger frame shaped to include a base-bar, a series of similar oblong bottle-neck encircling members supported by the base-bar and handle in connection with the frame, said frame having in its top a recess extending longitudinally parallel with the base-bar and equilaterally therefrom, lock-bars disposed in said recess having lugs projecting from their opposing edges into openings in the hanger frame structure, adapted for hinged movement upwardly respecting the frame, the outer edges of said lock-bars having indentations located oppositely with respect to the adjacent end walls of the corresponding encircling members, and having finger-holds by which to manipulate said lock-bars, and a spring fixture having divergent contracting coils disposed astride of the base-bar and connected respectively with said lock-bars, thus to secure the lock-bars in connection with the frame and hold them normally in bottle-neck engaging position.

2,404,626
NOISE LIMITING CIRCUIT
George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 5, 1942, Serial No. 460,781
14 Claims. (Cl. 250—20)



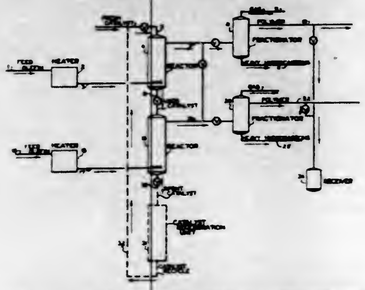
1. In combination, in an amplifier for signal modulated waves, a translating circuit for said waves and means including means responsive to the average level of said waves and means responsive to the amplitude of inward peaks of said modulating signal for preventing the translation of noise impulses by said circuit.

2,404,627
LIGHT AMPLIFYING ATTACHMENT FOR NEON TUBES
Abraham A. Goldberg, Miami, Fla.
Application October 29, 1943, Serial No. 508,227
1 Claim. (Cl. 240—1)



A light concentrating and focusing attachment for a standard neon tube comprising a pair of elongated lens-like duplicate bars, said bars being of solid transparent material and approximately J-shaped in cross-sectional form, the corresponding inner longitudinal edges being concaved to define channels for reception of regions of the tube collectively defining a half-portion of said tube, the major outer surfaces of said bars being of convex form and the outer longitudinal edges being flat, in a plane with one another and co-planar with the crest of the remaining half-portion of said tube.

2,404,628
POLYMERIZATION OF HYDROCARBONS
John D. Grenko and Lynn R. Strawn, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 18, 1943, Serial No. 491,320
4 Claims. (Cl. 260—666)



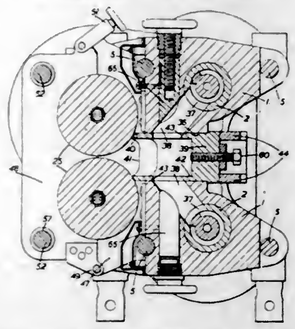
1. A process for polymerizing propylene which comprises passing propylene through a mass of polymerization catalyst consisting essentially of a calcined mixture of precipitated silica, alumina and zirconia having approximately the composition $100SiO_2$: $2Al_2O_3$: $12ZrO_2$, said catalyst having been previously exposed for a short time to feed olefin under polymerizing conditions at a temperature of at least about 340° F. and not in excess of about 560° F. maintaining a velocity of flow through the contact mass such that the mass velocity through the catalyst is in the range about .2 to .3 and effecting contact between propylene vapor and catalyst at a temperature of about 580 to 650° F., under a pressure of about 150 to 300 pounds thereby obtaining a polymer naphtha containing 40 to 50% and more by weight of aromatic hydrocarbons.

2,404,629
BEET LOADER
Robert D. Griff, Rock Island, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 19, 1944, Serial No. 519,070
4 Claims. (Cl. 198—94)



1. A loader for beets and the like comprising a first conveyor supported in a downwardly and forwardly extending position, a second cross conveyor disposed in a laterally outwardly and upwardly extending relation with its lower end disposed rearwardly of the upper end of said first conveyor, rotatable means supporting the upper and lower ends of said second conveyor, a transverse shaft for driving the first conveyor, a longitudinally disposed shaft for driving the cross conveyor, a bevel gear set connecting the front end of said longitudinal shaft with one end of said transverse shaft, a power connection for driving the forward end of said longitudinal shaft, and means deriving power from the rear end of said longitudinal shaft for driving the lower rotatable member of said conveyor supporting means, whereby the portion of the cross conveyor immediately rearwardly of said first conveyor hangs in a generally downwardly extending looped portion to serve as a receiver for the crop delivered thereto by said first conveyor.

2,404,630
EXTRUSION MACHINE
Francis Tadman Griffiths, Gravesend, England, assignor to W. T. Henley's Telegraph Works Company Limited, Dorking, England, a British company
Application September 16, 1943, Serial No. 502,603
In Great Britain October 9, 1942
8 Claims. (Cl. 18—12)

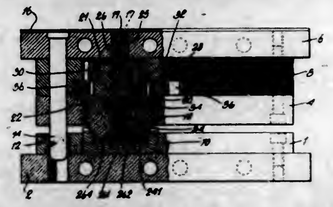


1. A machine for the extrusion of plastic material, comprising at least one pair of screw-thread impelling devices each having its own feed opening, a readily removable feed chamber located between the two impelling devices and having a pair of outlets each registering with the feed opening of the adjacent impelling device, a pair of driven feed rolls for feeding plastic material into one end of said feed chamber, a removable division plate in said feed chamber dividing said feed chamber into two parts each containing one of said outlets, and a correspondingly located removable division plate on the approach side of said feed rolls cooperating with the first said division plate whereby to allow of the delivery by said rolls of different kinds of plastic material to the two impelling devices.

2,404,631
MOLDING DIE AND MEANS FOR REMOVING MOLDED ARTICLES THEREFROM
Erich Gronemeyer, Pompton Plains, N. J., assignor to Mack Molding Company, Incorporated, Wayne, N. J., a corporation of New Jersey
Application February 9, 1944, Serial No. 521,669
6 Claims. (Cl. 18—16)

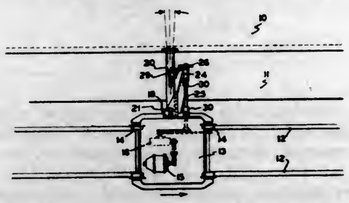
6. In a molding device, a male die for molding a threaded article, said die having an annular threaded portion and a central die portion movably mounted in said annular die portion, said annular die portion having a conical recess and said central die portion having a conical shape and engaging in said recess to control a passage

through said annular die portion, said central die portion being held against rotation and shaped to hold the molded article against rotation, means rotatably supporting said annular die portion and holding said annular die portion against axial movement, means for rotating said annular die



portion to remove the molded article therefrom and means for moving said central die portion to hold said central die portion engaged with the molded article and to open said passage through said annular die portion to vent the space between the article and said annular die portion upon rotation of said annular die portion.

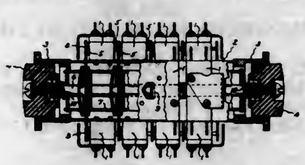
2,404,632
ELECTRIC RESISTANCE WELDING APPARATUS
Hans H. Hansen, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application December 31, 1943, Serial No. 516,397
15 Claims. (Cl. 219—4)



1. Electric resistance welding apparatus comprising a supporting structure carrying the welding transformer and having a welding electrode mounting arm extending outwardly therefrom; the combination of means to effect relative movement between the work pieces to be welded and said structure along a path parallel with the desired line of weld, a roller electrode rotatably mounted on said arm and having electrical connection with the secondary of said transformer, the means mounting said electrode on said arm comprising a slideable connection whereby said electrode may be moved along the line of weld independently of relative movement between the work and arm, and means operable synchronously with said means to effect to move said electrode relative to said arm according to a predetermined time-position pattern whereby said electrode may have intermittent movement with respect to the work while said arm is continuously moving with respect to the work.

2,404,633
SWITCH OPERATING MECHANISM
George M. Hausler, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application June 22, 1944, Serial No. 541,497
3 Claims. (Cl. 200—17)

1. In combination, a plurality of snap-acting switches each including a movable actuating member and a snap action spring, means securing said switches to a common support, a common operating member movable in one direction to engage all said actuating members and move said actuating members in unison, said switches being so mounted upon said common support that said actuating members effect actuation of said

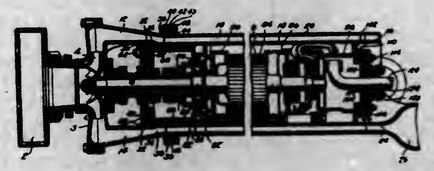


switches at irregularly spaced positions along the path of travel of said common operating member, and spring means for moving said operating member in said one direction against the sum of the forces of said snap-acting springs thereby substantially simultaneously to actuate all said switches.

2,404,634
PROCESS FOR MANUFACTURING FELT HATS
Alfred E. Hodshon, Bucks County, Pa., assignor to John B. Stetson Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application July 10, 1943, Serial No. 494,267
6 Claims. (Cl. 2—192)

6. In the manufacture of felted predominantly fur fiber hats the method which consists in forming the hat bat and wetting, shrinking and felting the same to final size for pressing, forming thereon the crown and brim and while wet and the fibers are open and dispersed, placing the hat in a freely mobile position into the mold of a die-press and compressing the hat under heat and pressure to final size and set, and to shrink and permanently interlock the fibers together, and thereafter completing the manufacture by pouncing, finishing the crown and brim, rounding the brim and trimming the hat.

2,404,635
SEALING MEANS FOR DRIVING MOTORS OF SUBMERSIBLE PUMPS
Vaino A. Hoover, Los Angeles, Calif., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif., a corporation of California
Application November 6, 1943, Serial No. 509,298
11 Claims. (Cl. 103—87)



1. A submersible pump comprising elongated spaced concentric cylindrical inner and outer walls defining a passage therebetween for fluid under pressure and forming an open-ended chamber within the inner wall, a motor within said chamber and having a housing attached thereto at one end thereof, sealing means between said housing and said inner wall to prevent the passage of fluid into the motor, an oil chamber attached to the motor at the other end thereof, sealing means between the oil chamber and said

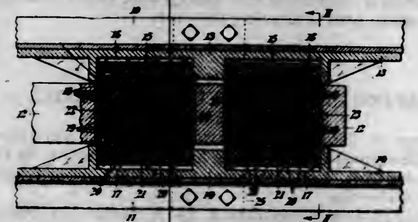
inner wall for preventing the passage of fluid into the motor, means for compressing the first-named sealing means, and means operable by operation of said compressing means for compressing the second-named sealing means.

2,404,636
VULCANIZING MOLD AND METHOD OF OPERATION
Walter E. Humphrey, Jeannette, Pa., assignor to Pennsylvania Rubber Company, Jeannette, Pa., a corporation of Pennsylvania
Application January 21, 1943, Serial No. 473,045
2 Claims. (Cl. 18—53)



1. The method of simultaneously forming a plurality of cellular vulcanized rubber bodies of general cylindrical shape which comprises charging green rubber into a succession of laterally secured, axially expansible mold matrices whose end walls are initially confined against axial expansion, gassing and vulcanizing the rubber while so confined, thereafter expanding the rubber in an axial direction while restraining it against expansion in a radial direction in the matrices, and the removing the bodies from the matrices.

2,404,637
CUSHIONING MEANS FOR DRAFT GEARS AND THE LIKE
Lloyd B. Jones, Hollidaysburg, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application September 27, 1941, Serial No. 412,615, now Patent No. 2,322,642, dated June 22, 1943. Divided and this application March 4, 1943, Serial No. 477,948
3 Claims. (Cl. 213—49)



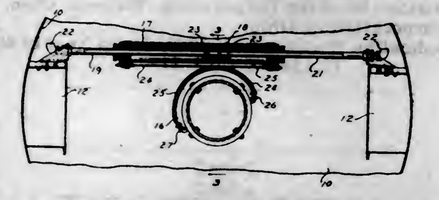
1. Cushioning means for use in a draft gear having a yoked draft bar and pairs of longitudinally spaced stop shoulders arranged along opposite sides of the draft bar in fixed relation to the underframe of the car, said cushioning means comprising a tubular housing element aligned in the direction of draft and disposed within the yoke opening in the draft bar with the projecting side portions thereof fitting into the intervals between the respective pairs of stop shoulders and thereby held against movement in the assembly; cover plates slidable within and closing the opposite ends of the housing element and adapted to be abutted by the opposite end surfaces of the yoke opening in the draft bar; and resilient means comprising a plurality of compacted, compressible and intervening rigid elements which are separable both longitudinally and transversely of the center sill interposed between said end plates within the housing to maintain said plates yieldingly in engagement normally with the respective stop shoulders of the respective pairs.

2,404,638
DEVICE FOR MARKING FABRICS
Gabriel Christiaan Erasmus Keet, Florida, Transvaal, Union of South Africa
Application July 7, 1944, Serial No. 543,944
In the Union of South Africa August 31, 1943
9 Claims. (Cl. 33—1)



1. Means of the nature indicated, including a member having a corrugated surface upon which the textile or similar fabric is laid to be marked by drawing a pencil or the like across it transversely of the corrugations, and a holder carrying such corrugated member and constructed with ruling means above said member.

2,404,639
MEANS TO TURN ROTATABLE STRUCTURES
Frank B. Lane, College Park, Md., assignor to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application April 10, 1942, Serial No. 438,495
6 Claims. (Cl. 74—91)



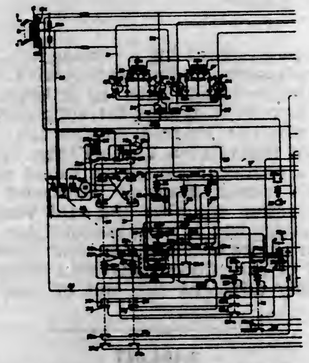
1. In combination with a rotatable structure, means to effect rotation thereof comprising a fixedly mounted drum, the center of which is located at the center of rotation of the structure, a cylinder arranged tangentially to the drum and being connected thereto for movement about the periphery of the drum, a piston in said cylinder having a rod extending outwardly thereof and connected at its end to the rotatable structure, and means for causing relative movement of the cylinder and piston to cause the structure and the cylinder and piston to turn about the drum.

2,404,640
ULTRA HIGH FREQUENCY SIGNAL-TRANSLATING APPARATUS
Richard B. Lawrance, Kingston, Mass., assignor, by mesne assignments, to Haseltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application October 29, 1941, Serial No. 416,986
14 Claims. (Cl. 250—36)



1. An ultra-high-frequency signal-translating apparatus comprising, an elongated rigid conductor, a fixed conductive member slidably supporting said conductor, means including said conductor for forming a resonant circuit tunable over a range of frequencies by adjustment of the length of said conductor extending from one side of said member, means movable in unison with said conductor for supporting vacuum-tube apparatus and associated circuit elements at the end of said conductor on said one side of said member, and means for moving said conductor through said member to tune said resonant circuit to a predetermined operating frequency in said frequency range.

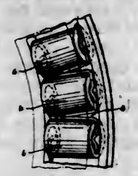
2,404,641
CONTROL SYSTEM
Henry H. Leigh and Gordon E. Walter, Scotia, N. Y., assignors to General Electric Company, a corporation of New York
Application February 1, 1944, Serial No. 520,616
14 Claims. (Cl. 172—239)



14. Control apparatus for an electric motor comprising electric valve apparatus for supplying a rectified voltage to the armature of said motor, reversing switching means for connecting said armature to said valve apparatus for rotation in either direction, a source of adjustable reference voltage, means for deriving a voltage from the countervoltage of said motor, means responsive to the difference of said reference voltage and said derived voltage for controlling said valve apparatus to effect operation of said motor at a speed corresponding to said reference voltage, a stopping control device, means responsive to operation of said stopping control device for controlling said reversing switching mechanism to reverse the connections of said armature to said electric valve apparatus, an electromagnetic switching device responsive to the reversal operation of said reversing switching means for adjusting said reference voltage for zero speed, an electric valve connected to be responsive to the countervoltage of said motor and an electromagnetic switching device controlled thereby for controlling said reversing switching means to disconnect said armature from said electric valve apparatus at a predetermined low speed of said motor.

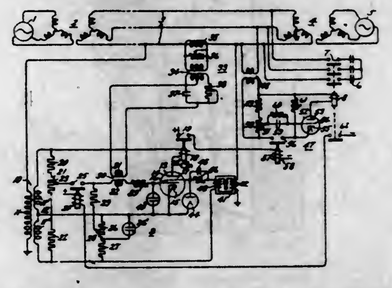
2,404,642
ROLLER BEARING RETAINER
James E. Lewis, Corry, Pa., assignor to Associated Spring Corporation, Bristol, Conn., a corporation of Delaware
Application October 10, 1944, Serial No. 558,031
3 Claims. (Cl. 308—235)

1. A roller bearing cage comprising a single wire formed to provide a plurality of roller retaining parts, each of said parts comprising two strands of the wire adapted to extend parallel to the axis of the roller and adjacent the side wall thereof when the parts are assembled, a roller retaining member turned at approximately right angles from one end of one of said strands,



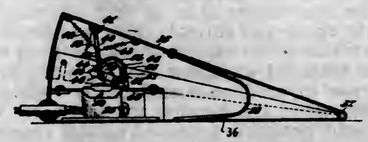
and a U-shaped roller retaining member disposed at approximately right angles to said strands at the other end thereof and the arms of which are respectively connected to said strands.

2,404,643
ELECTRONIC ELECTRORESPONSIVE APPARATUS
Orrin W. Livingston, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 20, 1943, Serial No. 479,921
25 Claims. (Cl. 250—27)



1. In combination, an alternating current circuit, an electron tube of the gaseous type having anode-cathode and control electrode circuits connected to be energized from said alternating current circuit, means including an additional source of voltage connected to energize said control electrode circuit for permitting said tube to become conductive only at the same predetermined point in each successive half cycle of its anode voltage, and means responsive to a predetermined relation between two coexisting electrical quantities of said alternating current circuit and connected to energize said control electrode circuit for changing the state of conductivity of said tube only at said predetermined point.

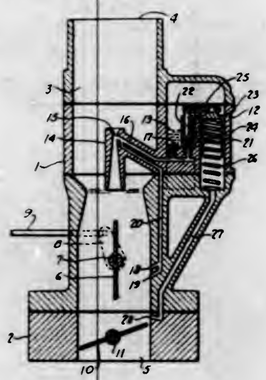
2,404,644
CONTROL OF ELECTRIC DEVICES
Bernhard Loewe, Yonkers, N. Y., now by judicial change of name Bernard Lowe
Application August 28, 1943, Serial No. 500,357
2 Claims. (Cl. 200—86)



1. As an article of manufacture an actuator for closing and opening by successive strokes of down-

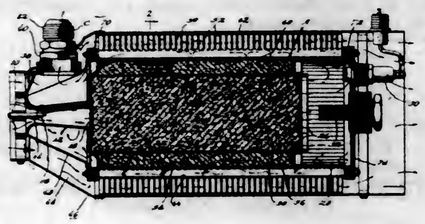
wardly directed foot pressure a standard type encased hand operable switch, said actuator comprising, in combination, two main parts, one of which is a base, and the other of which is a treadle attached to said base, said treadle adapted to be swung downward by foot pressure and upward by elastic force, and transmission means connected with at least one of said main parts, said transmission means comprising a bar pivoted to said treadle and an asymmetric cam, in the form of a V, adapted to be swung in two different directions by two consecutive depressions of said bar and to be coupled with said handle by mere overlapping.

2,404,645
CARBURETOR
Marion Mallory, Detroit, Mich.
Application June 25, 1945, Serial No. 601,455
14 Claims. (Cl. 123—123)



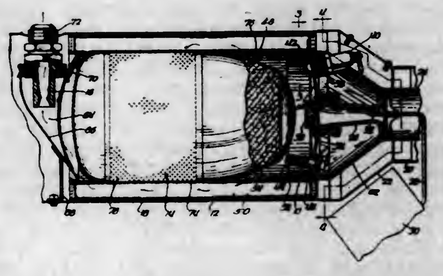
6. In a carburetor for an internal combustion engine having an intake passageway, a venturi in said intake passageway, a main fuel jet in said venturi, a source of fuel connected to said jet, a governor valve on the engine side of said main jet, a manual throttle valve between the governor valve and the main jet, an idle jet between the manual throttle valve and the governor valve for feeding fuel into said intake passageway when the manual throttle valve is closed for idling the engine, a power jet for feeding fuel into said intake passageway, means actuated by changes of pressure in the intake passageway adjacent said governor valve for controlling said power jet, a conduit connecting said pressure actuated means with the intake passageway on the atmosphere side of and adjacent the governor valve when nearly closed whereby when the manual throttle valve is wide open said pressure actuated means responds to the pressure in the intake passageway on the atmosphere side of the governor valve and opens said power jet, said conduit connecting said pressure actuated means with the intake passageway on the engine side of said governor valve when the governor throttle valve is opened beyond idle position to an extent where the fluid velocity by the main jet will draw fuel from the main jet at a rate to produce a sufficiently rich mixture whereby when the manual throttle valve is wide open said pressure actuated means responds to the pressure in the intake passageway on the engine side of said governor valve and closes said power jet.

2,404,646
HEATER
Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased
Application February 18, 1943, Serial No. 476,266
11 Claims. (Cl. 126—116)



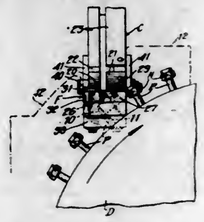
1. A heater comprising a combustion chamber, a heat exchanger communicating with said combustion chamber and heated by products of combustion therefrom, means for supplying a combustible mixture to said combustion chamber, said means including a Venturi tube, and means forming a passage through said heat exchanger filled with fibrous material interposed between said combustion chamber and said Venturi tube and through which the combustible mixture must pass before entering the combustion chamber, part of said fibrous material being located immediately adjacent the end of said Venturi tube.

2,404,647
HEATING APPARATUS
Henry J. De N. McCollum and Lynn A. Williams, Jr., Chicago, Ill.; said Williams assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia; Thelma McCollum executrix of said Henry J. De N. McCollum, deceased
Application October 15, 1942, Serial No. 462,074
8 Claims. (Cl. 126—116)



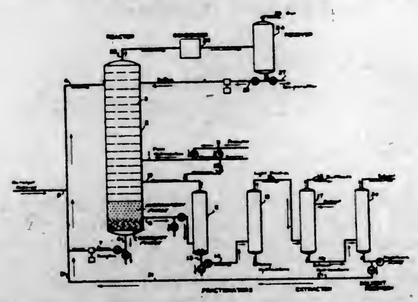
1. Heating apparatus comprising a tubular heat exchanger of the hollow finned type, means forming a combustion chamber in one end thereof for supplying hot products of combustion to the interior of said heat exchanger, means for directing cooling air into said heat exchanger at the combustion chamber end thereof, and a plurality of parallel rods adjacent the bases of said fins to prevent the formation of hot spots in the bases of the hollow fins where the hot products of combustion first contact these fins, said rods having parts in contact with said cooling air.

2,404,648
ARTICLE FEEDING DEVICE
John Raymond Meyerhoff, Elizabeth, N. J., assignor to Elastic Stop Nut Corporation of America, a corporation of New Jersey
Application May 3, 1943, Serial No. 485,471
3 Claims. (Cl. 51—215)



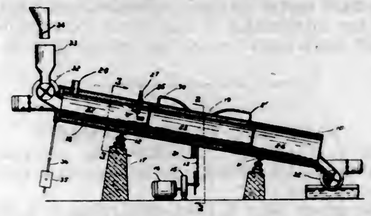
1. A device for feeding a plurality of articles to a succession of extending article holders moving along a predetermined path, said device having a longitudinal article passage disposed at an angle to the path of movement of said holders, a lateral passage through which at least a portion of a holder is adapted to pass, and a shoulder adapted to be contacted by an article already on a holder, to prevent said holder from entering said lateral passage.

2,404,649
ISOMERIZING HYDROCARBONS
Max Neuhaus, Bronxville, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 26, 1943, Serial No. 473,581
10 Claims. (Cl. 260—683.5)



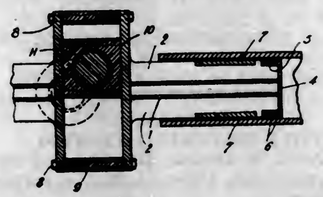
1. A process for isomerizing saturated hydrocarbons by contact, in the presence of hydrogen halide, with an isomerization catalyst consisting essentially of aluminum halide-hydrocarbon complex liquid which comprises passing hydrocarbon undergoing conversion through a reaction zone countercurrently to a body of said complex catalyst substantially free from undissolved solid aluminum halide and characterized by having a heat of hydrolysis in the range 200 to 400 calories per gram of complex, subjecting hydrocarbons passing through said zone repeatedly to alternate vaporization and condensation while in contact with the catalyst, continuously removing from said zone a treated hydrocarbon stream consisting essentially of isomerized hydrocarbons, separately withdrawing complex catalyst after contact with entering feed and and returning withdrawn catalyst to the reaction zone at a point in closer proximity to the point of discharge from the reaction zone for isomerized hydrocarbons.

2,404,650
PROCESSING KILN
Daniel L. Newkirk, Inkster, and Elbert E. Ensign, Ypsilanti, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application August 11, 1943, Serial No. 498,211
3 Claims. (Cl. 263—22)



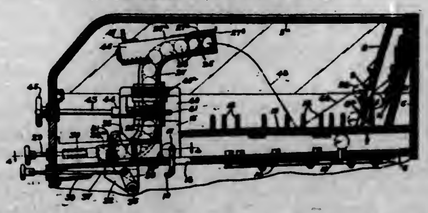
1. In a continuous charging and discharging kiln structure, in combination, an elongated, cylindrical structure having an oblique axis of rotation, supporting abutments having rollers mounted thereon on which the cylindrical structure rotates, power means attached to said structure providing rotation, a pendulum counterweight rigidly attached to said structure, length of said counterweight adjusted to give a period coinciding with the period of said kiln, heating means mounted within said structure, means sealing said kiln from the atmosphere during rotation, and said rotation being oscillatory motion.

2,404,651
PISTON
Bruff W. Olin, Highland, N. Y.
Application January 20, 1945, Serial No. 573,665
7 Claims. (Cl. 309—4)



4. A piston comprising a central tubular member, radially arranged webs attached to said tubular member, a piston head carried by said tubular member and webs and means spaced from said piston head connecting outer edges of said webs.

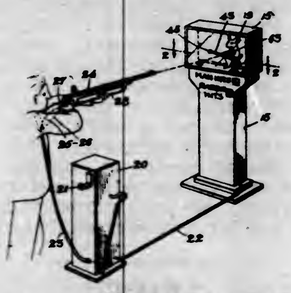
2,404,652
BOUNCE BALL GAME
Leonard Z. Plebanek, Chicago, Ill., assignor of one-third to Charles J. Strebel, and one-third to Anthony Bird
Application April 1, 1944, Serial No. 529,136
2 Claims. (Cl. 273—101)



1. In a device of the class described, a ball projecting mechanism including a member having

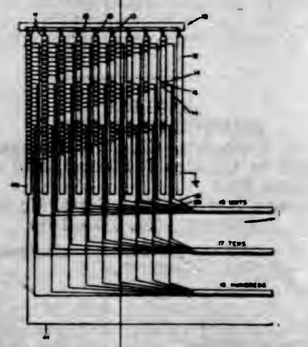
a bore for receiving a series of balls in contacting relation, means for projecting said balls, a runway floor for receiving said balls after projection, means defining a ball guideway from said runway floor to the bore in said member, means for controlling said guideway for the passage of a predetermined number of balls, means for advancing said series of balls in said bore, means for retaining said series in such advanced position and means for advancing a ball from said guideway into said bore into contacting relation with said series.

2,404,653
ELECTRIC TARGET GAME
Leonard Z. Plebanek, Chicago, Ill., assignor of one-third to Charles J. Strebel and one-third to Anthony Bird
Application May 8, 1944, Serial No. 534,619
9 Claims. (Cl. 273—101.1)



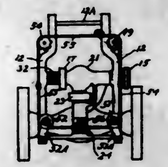
1. In a game of the class described, a target, means to move said target, a weapon carried by said target, means for causing said target to turn after a predetermined movement under certain conditions and electrical means for causing illumination of the end of said weapon for simulating a shot at substantially the end of the turning movement of said target.

2,404,654
TOLL METERING SYSTEM
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application February 7, 1942, Serial No. 429,874
19 Claims. (Cl. 178—2)



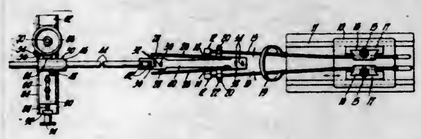
19. In a toll metering system, a circuit, means to indefinitely transmit a continuous succession of identical signals on said circuit, a register, and means to connect said register to said circuit for the duration of one only of said signals whereby said register is operated during this period.

2,404,655
MACHINE FOR FELLING TREES
Arthur W. Randall, Saugus, Mass.
Application March 4, 1944, Serial No. 525,076
1 Claim. (Cl. 143—43)



In a device of the class described including a circular saw operatively positioned on a motor vehicle by means of a pivoted horizontal arm mounted on a frame attached to the vehicle, the saw being adapted to cut down standing trees, means for moving the saw laterally in a horizontal arc, said means comprising a shaft mounted on the frame, a handle on the shaft, a sprocket wheel mounted on the shaft, a second sprocket wheel and pulleys mounted on the frame, the sprocket wheels and pulleys being in the same vertical plane, a sprocket chain mounted on the sprocket wheels, a belt attached to each end of the chain, passing through the pulleys and connected with said arm, the whole being adapted to move the saw laterally in a horizontal arc on the pivoted arm by turning the handle manually, as described.

2,404,656
ADJUSTABLE GUIDE FOR FLAME HARDENING TORCHES
Frederick W. Riedel, Belle Vernon, Pa.
Application February 8, 1945, Serial No. 576,803
2 Claims. (Cl. 266—5)

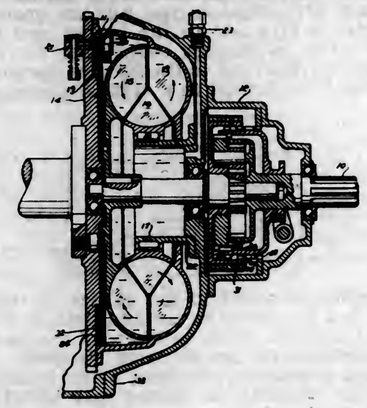


1. Torch guiding means of the character described, comprising a standard having a bracket vertically adjustable thereon, a member adjustable horizontally with respect to said bracket, a supporting bar secured to said member, guide rods carrying fittings at their ends, means adjustably securing said fittings to said supporting bar, followers notched for guiding engagement with said guide rods, and means yieldingly urging said followers into guiding engagement with said guide rods.

2,404,657
TRANSMISSION
Albert O. Roberts and John J. Wharam, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application January 26, 1945, Serial No. 574,652
5 Claims. (Cl. 192—3.2)

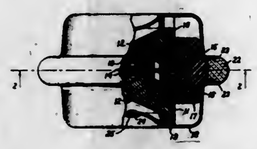
1. In a variable speed transmission of hydraulic torque converter type, having an impeller, a runner and a reaction rotor, said impeller forming an integral unit with a flywheel, said runner having attached thereto a solid but flexible disc clutch element, said clutch element actuated by hydraulic pressure created by centrifugal force produced by the rotating of the fluid between

runner and impeller, means attached to said flywheel and clutch element to cause the clutch



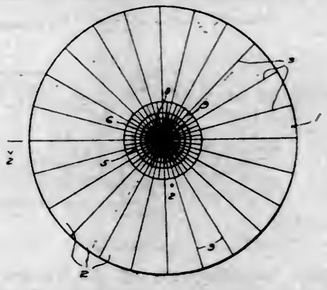
element to be subjected to a static force and to a dynamic force, said dynamic force engaging said clutch element and flywheel.

2,404,658
IGNITION SPARK GAP DEVICE
Arthur W. Robinson, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 6, 1943, Serial No. 482,036
1 Claim. (Cl. 250—27.5)



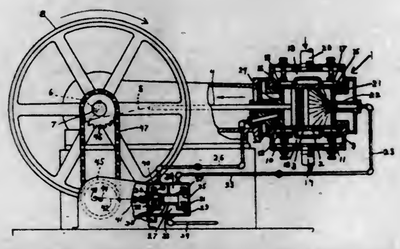
A quenched spark gap device including a pair of spaced apart electrodes each having an annular groove in the face thereof adjacent the other electrode, an intermediate insulating element of substantially predetermined thickness between adjacent faces of said electrodes extending from substantially the outer periphery of said electrodes to said grooves forming central discharge portions, a discharge face of relatively hard electrically conductive material on said discharge portions, an insulating spacer about the outer periphery of said electrodes, a cup-shaped enclosing casing about said insulating spacer and each of said electrodes, each of said casings being welded to its respective electrode providing an electrical connection therebetween, means including an annular gas-tight glass seal about the adjacent ends of said cup-shaped casings for substantially hermetically sealing said device with said casings insulated from each other and for holding said casings biased toward each other to maintain said electrodes biased toward said intermediate insulating element, and hydrogen gas in said device at a pressure such that electrical discharge breakdown between said discharge faces at the spacing therebetween occurs at between 1175 and 1225 peak volts of an alternating current voltage.

2,404,659
PARACHUTE
Charles Rehulick, Scranton, Pa.
Application September 14, 1944, Serial No. 554,067
2 Claims. (Cl. 244—145)



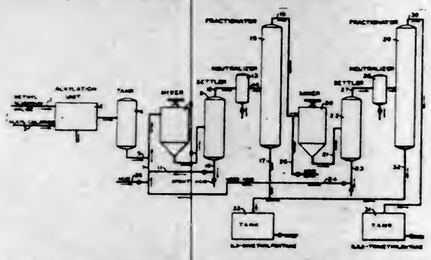
1. In a parachute, an umbrella having a circular axial opening therein forming an air release vent, and radial seams extending from said opening to the perimeter of the umbrella, means operative to close said opening under pressure of air in said umbrella comprising an auxiliary umbrella section larger than said opening to overlap the edge of the same, means to attach said section in said umbrella comprising cords attached to the edge of said section and extended into said seams intermediate the ends of the same with end portions extending along the seams and fixed therein, and pull lines attached to said section at different points whereby different portions of said section may be pulled away from the opening to variably open the same.

2,404,660
AIR COMPRESSOR
Wilfred J. Rouleau, Quincy, Mass.
Application August 26, 1943, Serial No. 500,028
4 Claims. (Cl. 230—208)



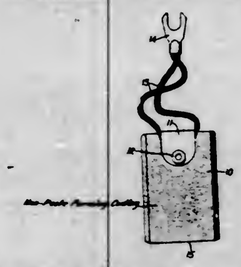
1. An air compressor comprising a cylinder, a reciprocating piston operating therein, an atomizer for delivering atomized liquid into the cylinder, a reciprocating pump for forcing liquid through said atomizer, and means to operate said pump in timed relation with the compressor but out of step therewith and in such relation thereto that the compression stroke of the pump terminates considerably prior to that of the compressor, whereby said pump will become inoperative to deliver atomized liquid into the compression cylinder during the latter part of the compression stroke of the compressor piston in which the compressed gas is being delivered from said compressed cylinder.

2,404,661
MANUFACTURE OF MOTOR FUEL
Robert Thomas Sanderson, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application August 15, 1942, Serial No. 454,970
5 Claims. (Cl. 260—676)



5. In the manufacture of 2,2,3-trimethylbutane, the steps comprising reacting methyl aluminum chloride with 2-chloro-2,3-dimethylbutane in solution in 2,3-dimethylbutane at a temperature in the range about minus 58 to 32° F. such that a branched chain hydrocarbon product comprising 2,2,3-trimethylbutane and 2,4-dimethylpentane is obtained, treating said product with sulfuric acid at a temperature in the range about 70 to 125° F. for a period of time less than about 3 hours such that 2,4-dimethylpentane undergoes substantial conversion into 2,3-dimethylpentane while 2,2,3-trimethylbutane remains substantially unchanged, removing acid from the treated hydrocarbon mixture, and distilling a fraction enriched in 2,2,3-trimethylbutane from the treated hydrocarbon mixture, the remaining hydrocarbons comprising 2,3-dimethylpentane.

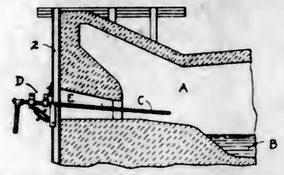
2,404,662
ELECTRICAL CONTACT ELEMENT
Robert H. Savage, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 21, 1941, Serial No. 399,193
32 Claims. (Cl. 171—325)



1. An electrical contact element including a current collector brush formed of a porous block of finely divided electrically conductive carbonaceous material, and a solution comprising ethylene glycol solution in at least a portion of said porous block.

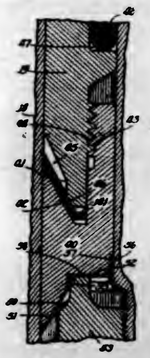
2,404,663
ADJUSTABLE MOUNTING FOR LIQUID FUEL BURNERS
Carl Shommer, Kinsman, Ohio
Application April 5, 1945, Serial No. 586,746
3 Claims. (Cl. 158—2)

1. In the combination of a furnace having a burner receiving opening therein and an elongated burner extending through such opening from the outside of the furnace, the improved burner mounting which comprises a supporting frame located outside the furnace opening, said frame including upper and lower parallel guide members transverse to the furnace opening, a first means attached to the burner and to the upper guide to support the burner for sliding movement transverse to the furnace opening and for pivotal movement in a vertical plane, a sec-



ond means attached to the burner at the rear of the first attaching means and slidably mounted on the lower guide, said second means being adjustable in its length from its lower guide engaging portion to the point of its attachment to burner whereby the burner may be adjusted in a vertical plane, and means to slide the two burner attaching means longitudinally of the upper and lower guides to adjust the burner transversely of the furnace opening.

2,404,664
PRESSURE SEALING MEANS
Ralph L. Skinner, Detroit, Mich., assignor to Renniks Company, Detroit, Mich., a copartnership
Application May 27, 1944, Serial No. 537,757
1 Claim. (Cl. 286—26)

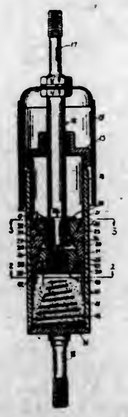


In a pressure-sealing construction of the type incorporating a first member having a cylindrical chamber subjected to fluid-pressure, a companion cylindrical member coaxially occupying said chamber, said members having movement relative to one another, and fluid-pressure sealing-means mounted on one of said members and bearing edgewise at an oblique-angle on the cylindrical surface of the other member, said sealing-means including thin, truncated-cone shape, flexible reed-means, the novel improvement of a first element having a truncated-cone surface against which the acute-angle face of said reed-means bears for at least the major portion of its length and terminating short of the active edge of said reed-means, and a second element having a truncated-cone surface of the same inclination as and bearing against the obtuse-angle surface of said reed-means and located at such a distance from the active edge of said reed-means that the fluid-pressure acting on the exposed portion of the obtuse-angle face of said reed-means prevents the reed-means from buckling.

2,404,665
METHODS OF HARDENING AND TANNING OF ARTIFICIAL FIBERS MADE OF PROTEIN
Rudolf Signer, Berne, Switzerland
No Drawing. Application March 13, 1943, Serial No. 479,142. In Germany January 15, 1942
5 Claims. (Cl. 18—47.5)

1. The method of increasing the strength of artificial fibers made from casein, which comprises dry-spinning artificial fibers from an alkaline casein mass, hardening the dry fibers while they are in alkaline condition by treating them with gaseous formaldehyde, freeing said fibers of alkali by treating them with dilute acid, stretching the fibers while they are wet, treating the fibers while in wet stretched condition with a chromium salt solution, and then washing and drying the fibers.

2,404,666
SHOCK ABSORBING DEVICE
Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 8, 1944, Serial No. 562,492
8 Claims. (Cl. 188—129)

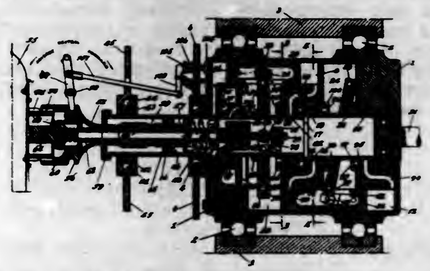


1. In a shock absorber, a cylinder, an expansible sleeve slidable in said cylinder, a tapered expander cooperating with said sleeve, said expander having therein a recess provided with axially spaced abutment means, and an actuating rod disposed coaxially of said cylinder and sleeve and having shoulder means confined in said recess, said shoulder means having limited axial shifting in said recess between said spaced abutment means for forming a lost-motion operating connection between said rod and expander.

2,404,667
THERAPEUTIC COMPOSITION
Marvin R. Thompson, Great Neck, and Nicholas J. Accousti, West Hempstead, Long Island, N. Y., and Virginia Fisher, Red Bank, N. J., assignors to William R. Warner & Co. Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 5, 1943, Serial No. 505,030
8 Claims. (Cl. 167—63)

4. A self-sterilizing therapeutic composition comprising at least about 5 per cent of a topically active sulfonamide compound selected from the group consisting of sulfathiazole, sulfanilamide and sulfadiazine and at least about 1 per cent urea peroxide.

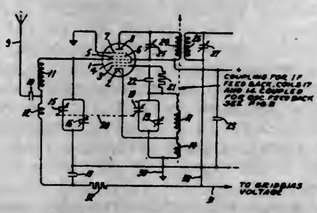
2,404,668
FLUID TRANSMISSION
Tom H. Thompson, Mamaroneck, N. Y., assignor to Thompson-Wade Corporation, Detroit, Mich., a corporation of Michigan
Application October 28, 1944, Serial No. 560,896
18 Claims. (Cl. 60—53)



5. In a fluid transmission, a casing, pump pistons mounted for reciprocation in said casing, a disk in said casing, means supporting said disk for rotary movement and movement about a second axis at an angle to the axis of rotation, means operatively connecting said disk and pistons for reciprocating said pistons upon rotation of said disk and drive means for rotating said disk, said drive means having selectively operated means responsive to the resistance to rotation of said disk for moving said disk about said second axis upon operation of said drive means to rotate said disk.

12. In a fluid transmission, a casing, pump pistons mounted for reciprocation in said casing, a disk in said casing, means supporting said disk for rotary movement and movement about a second axis at an angle to the axis of rotation, means operatively connecting said disk and pistons for reciprocating said pistons upon rotation of said disk, drive means for rotating said disk, said drive means having means responsive to the resistance to rotation of said disk for moving said disk about said second axis upon operation of said drive means to rotate said disk, a second disk in said casing, means rotatably supporting said second disk, motor pistons mounted for reciprocation in said casing, means connecting said motor pistons and said second disk to rotate said second disk upon reciprocation of said motor pistons, said casing having passages for the supply of fluid under pressure between said pump and motor pistons and ports in said disk supporting means controlling said passages.

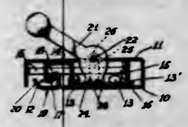
2,404,669
CONVERTER
John E. Tillman, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application September 25, 1942, Serial No. 459,605
12 Claims. (Cl. 250—20)



1. The combination, in a superheterodyne receiver, of a signal input circuit, a locally excited

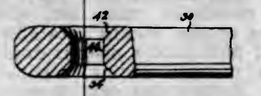
oscillatory circuit, a converter having an intermediate frequency output circuit, means to supply oscillations from said signal input circuit and from said locally excited oscillatory circuit to said converter to beat in said converter to produce oscillations of intermediate frequency in said intermediate frequency output circuit, and means to control the gain between said signal input circuit and said intermediate frequency output circuit, said means comprising means to supply oscillations of said intermediate frequency to said locally excited oscillatory circuit and thence to said converter in phase to produce desired control of the gain of said converter.

2,404,670
LATCH MECHANISM
Frederick M. Udall and Paul Baumgarten, New York, N. Y.
Application November 23, 1944, Serial No. 564,767
3 Claims. (Cl. 292—172)



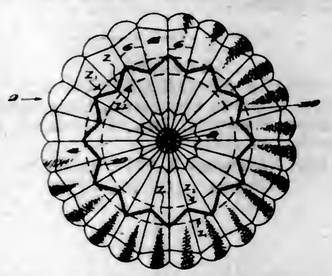
1. Latch mechanism comprising a housing composed of a base plate and a cover, a latch bolt guided to slide on the base plate, said plate having posts projecting therefrom, a rocker having a shaft supported between said posts and said cover, said rocker having teeth geared to said bolt for retracting it.

2,404,671
MOLDING PROCESS
Leroy W. Vinal, Leominster, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 14, 1943, Serial No. 506,218
1 Claim. (Cl. 18—47.5)



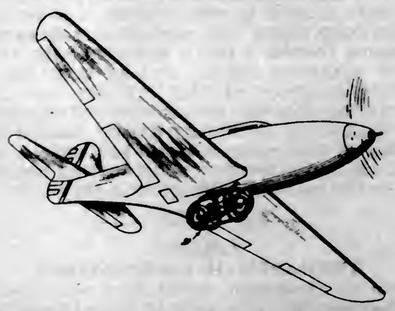
A method of making an elongated article such as a brush handle or the like having a hanger hole adjacent one end thereof, said opening comprising a central cylindrical portion whose axis is transverse to the longitudinal axis of the handle, and having inclined conical surfaces extending from the exterior faces of the handle to the central cylindrical portion, which method comprises casting the handle in a two part die about an insert projecting transversely through one-half of the die cavity, and having an inclined shoulder within the cavity adapted to form one of the inclined conical surfaces in the completed article and having an extension portion projecting beyond the inclined shoulder to form a part of the central cylindrical opening of the handle, introducing the molding material through a sprue opening in the other portion of the die opposite said insert substantially in alignment therewith and forming a sprue extending from said opening in a direction opposite to the aforesaid insert, allowing the molding material to harden in the two part die then separating the two parts of the die, retaining the article in the part of the die containing the insert, then ejecting the article from the last-named part of the die, leaving an elongated article with a cavity extending part way through the article through one side thereof and a sprue extending from the opposite side of the article, then finishing the article by cutting off the sprue flush with the surface of the article, drilling through the area previously occupied by the sprue to complete the transverse opening, and forming an inclined surface on the sprue side of the handle corresponding to the opposite molded inclined surface produced by the insert.

2,404,672
VENTED PARACHUTE
Christian A. Volf, Los Angeles, Calif.
Application May 21, 1942, Serial No. 443,960
6 Claims. (Cl. 244—142)



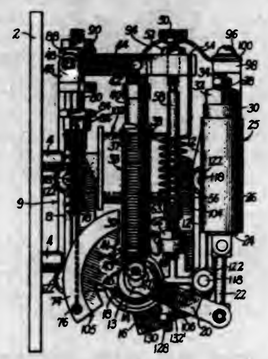
2. A parachute comprising a canopy having a central opening at the apex thereof, the canopy being composed of triangular panels defined by reenforcing load lines converging to said central opening, each panel being provided with a diagonally extending vent extending between adjacent pairs of said load lines, said vents being arranged in end-to-end formation to form a zig-zag row extending circumferentially around the canopy, said vents opening automatically to relieve excess air pressure existing below the canopy.

2,404,673
CARGO CARRIER
Christian A. Volf, Los Angeles, Calif.
Application July 3, 1942, Serial No. 449,638
15 Claims. (Cl. 206—46)



10. A cargo carrying crate, comprising a continuous longitudinal frame extending completely around the cargo in a fore and aft direction, and a plurality of circular, transversely positioned frame members, pivotally mounted at diametrically opposite points on said longitudinal frame, whereby the circular frame members may be swung about their pivots into and out of the plane of the longitudinal frame, all of the framing elements being narrow, resilient metal strips, which form a light, springy, shock-absorbing open-work skeleton cage for the cargo.

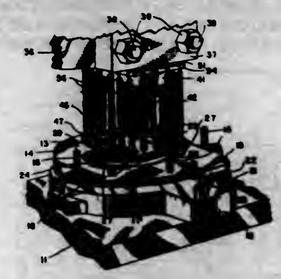
2,404,674
REGULATOR
Louis H. Von Ohlsen, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application October 28, 1942, Serial No. 463,645
7 Claims. (Cl. 201—51)



1. In a carbon-pile regulator, the combination of, a U-shaped frame constituting a rigid mounting means and having two leg portions connected together at their lower ends by a base portion and having their free ends extending upwardly, an inverted U-shaped magnetic core having two legs extending along and rigidly clamped to the respective leg portions of said frame with the lower free ends of the legs substantially at the base of the frame and with the base portion of the core being positioned along the side of the leg portions of the frame, a bi-metallic strip extending across the top of said frame with one end rigidly attached to the top of one of said leg portions, a tension spring assembly suspended from the other end of said strip and extending downwardly toward the base portion of said frame, a rotor assembly mounted at the base portion of said frame and adapted to be turned by variations in the magnetic field of said core to exert a motive force which varies in accordance with the control effect to be exerted, a carbon-pile assembly carried by said frame and positioned longitudinally thereof with its lower end adapted to be moved upwardly to compress the carbon pile in accordance with the control effect desired, and means connecting said tension spring assembly to oppose the action of said motor assembly.

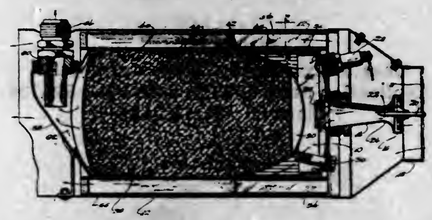
2,404,675
SAFETY GUARD
Alan E. Vosburg, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application December 11, 1943, Serial No. 513,981
3 Claims. (Cl. 74—615)

1. In combination with a punch press including a reciprocating punch holder and a stationary die shoe, a safety device comprising a plate securely connected to said reciprocating punch holder, a frame having openings therein formed of a large circular section and a slot joining the circular section removably connected to said stationary die shoe through bolts in said die shoe engaging the openings in said frame, and a plurality of springs each connected to said plate and to said frame, whereby upon reciprocation of said punch holder said springs will be compressed and extended to afford protection to the



punch press operator under all conditions of operation.

2,404,676
HEATING APPARATUS
Lynn A. Williams, Jr., Northfield, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 8, 1942, Serial No. 461,261
1 Claim. (Cl. 126—116)

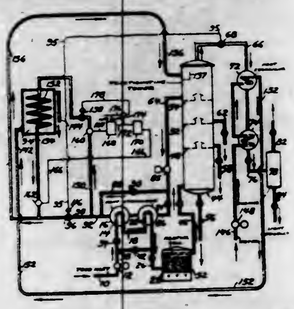


A heating apparatus of the class described, comprising in combination a heat exchange member formed of thin sheet metal and having deep longitudinally extending corrugations in its wall providing outwardly projecting hollow fins in spaced relation to each other about said member, means forming a combustion chamber at the rear end of said heat exchange member adapted to supply hot gases to the interior of said member and said fins, a backwardly tapered muffler in said heat exchange member serving to close the inner faces of the fins through a substantial portion of their length at their forward portions, outwardly projecting auxiliary fins in the form of solid metal plates secured in position in the spaces between said fins by means of flange portions turned at an angle to the fins and in snug engagement with the outer faces of the wall portions between said first named fins and extending longitudinally adjacent the tapered portion of said muffler, and means for feeding ventilating air through the spaces between said fins for heating said ventilating air and for protecting the fins from burning out.

2,404,677
FRACTIONAL DISTILLATION
Warren C. Wilson, Rahway, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 29, 1941, Serial No. 416,980
9 Claims. (Cl. 196—94)

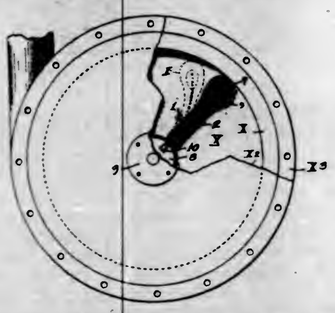
1. In the fractionation of mixed vapors in a fractionating zone to separate desired constituents, the steps of removing reflux liquid from the upper portion of said fractionating zone at a con-

stant rate, passing the reflux liquid through a cooler, passing a cooling medium through said cooler at a substantially constant rate in excess of the maximum cooling required and regulating the temperature of the reflux liquid to be re-



turned at a constant rate to said fractionating tower by by-passing at least a portion of the reflux liquid around said cooler, the relative flow of the reflux liquid through and around said cooler being controlled by the temperature in the upper portion of said fractionating zone.

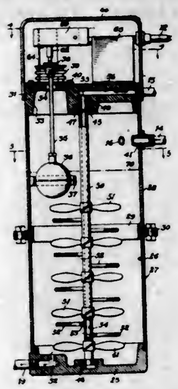
2,404,678
IMPELLER
Charles Erb Wuensch, Saratoga, Calif.
Application June 5, 1944, Serial No. 538,794
7 Claims. (Cl. 103—115)



1. A flexible impeller blade for centrifugal pumps comprising in combination a flexible core extending substantially its entire length, a weight secured to the outer end of said core to form an enlarged bulb-like end, means at the other end of said core for securing the blade to a hub, and a flexible resilient covering for said core and said weight said structure being capable of momentary distortion and flexing to pass an obstacle and return to its normal state without stopping the operation of a pump.

2,404,679
CARBONATOR
Philip Andron, Brooklyn, N. Y., and Harold Krichman, Bayonne, N. J.
Application April 4, 1945, Serial No. 586,536
6 Claims. (Cl. 261—93)

1. In a carbonator a chamber, a tubular member rotatably mounted in said chamber extending throughout the length of said chamber, agitators on said tubular member, arcuate tubular spinner members mounted on said tubular member spaced throughout its length and communicating with the center thereof, means for introducing water into said chamber, means for introducing gas into said chamber under pressure through said tubular member and said spinners, a valve controlling said gas introducing means, means operated by the level of the water in said

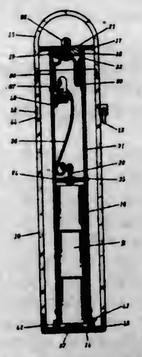


chamber to open said valve, additional means operated by the pressure in said chamber to close said valve and means for closing the water introducing means to prevent the escape of gas when the gas reaches a predetermined pressure.

2,404,680
PRINTING INK
Carl W. Aneshansel, Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 26, 1945, Serial No. 585,022
7 Claims. (Cl. 106—30)

1. A moisture-setting printing ink, comprising water-insoluble coloring matter dispersed in a varnish consisting of a solution of about 25% to about 50% by weight of shellac in polypropylene glycol of the class which is substantially liquid at normal temperature.

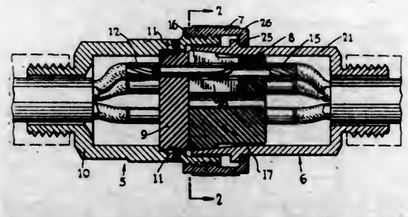
2,404,681
LIFESAVING DEVICE
William R. Baack, Long Island City, N. Y., assignor to Coston Supply Company, Inc., New York, N. Y.
Application September 2, 1942, Serial No. 457,034
5 Claims. (Cl. 9—8.3)



1. A buoyant light supporting marker comprising an outer casing having a translucent cap

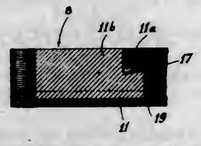
sealing one end, a central tube extending longitudinally of the casing, a member closing one end of the tube having a flange spacing said end from the outer casing, a reflector on said member under the translucent cap, a lamp socket mounted in said member centrally of the reflector and containing a lamp, batteries and circuit devices including a mercury switch mounted in the central tube and forming part of the circuit from the batteries through the lamp socket and lamp, a water tight weighted cap closing the end of the outer casing opposite the translucent cap, and metallic means carried by said cap for supporting the batteries in the central tube and spacing the tube from the outer casing, the cap and said means constituting a part of the circuit through the batteries and the lamp.

2,404,682
PLUG AND SOCKET CONNECTOR
Lewis F. Baker, Southport, Conn.
Application August 24, 1942, Serial No. 455,856
7 Claims. (Cl. 173—328)



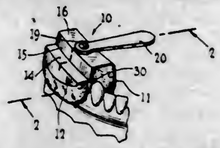
1. An electrical coupling comprising inter-engageable plug and socket members, the plug member including a number of projecting male contacts and a casing in which the contacts are secured, the socket member including a corresponding number of female split-sleeve contacts, an insulation member in which the split-sleeve contacts are secured, said insulation member being slotted adjacent the split-sleeve contacts to provide flexible elements adjacent thereto and means for pressing the flexible elements to compress the split-sleeve contacts to increase the pressure on the male contacts when the plug and socket members are connected.

2,404,683
DENTAL DEVICE
Harry Barishman, New York, N. Y.
Application June 14, 1944, Serial No. 540,219
4 Claims. (Cl. 282—19)



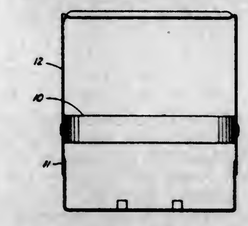
2. As a new article of manufacture, a dental device of the class described, comprising a sheet of material, one surface thereof being coated with carbon or similar substance capable of leaving an imprint when brought into frictional contact with another surface, the opposite surface of said sheet being coated with adhesive substance capable of adhering to a tooth to be removably retained thereby, a first removable layer overlying the said adhesive surface to protect the same, and a second removable layer interposed between said adhesive surface and said first removable layer, said second removable layer being narrower than said first removable layer.

2,404,684
DENTAL TRAY
Harry Barishman, New York, N. Y.
Application September 26, 1944, Serial No. 555,779
3 Claims. (Cl. 32—18)



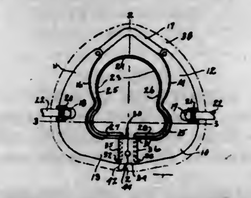
1. A dental impression tray of the class described comprising a one-piece channel member having a substantially horizontal top wall, a substantially vertical rear wall depending from one end of said top wall, a front wall depending from the opposite end of said top wall, said front wall being of stepped cross-sectional contour in a direction away from said rear wall.

2,404,685
BOTTLE CARRIER GRILL
William M. Bassichis, Cleveland Heights, Ohio, assignor to Convenient Carrier Corporation, Cleveland, Ohio, a corporation of Ohio
Application November 27, 1944, Serial No. 565,256
1 Claim. (Cl. 224—48)



A bottle carrier comprising a band formed to envelope the upper portions of a plurality of bottles arranged in two parallel rows of equal length, U-shaped cradles depending therefrom for engagement with portions of the bottoms of bottles and bottle separators secured to the inner side walls of said band, said separators being formed of strips of metal split longitudinally and bent outwardly in opposite directions for engagement with the portions of the bottles that confront the outer side walls of the bent portions of the separators, said strips being formed of a ductile metal to facilitate modification of the shape of the bent portions thereof and thus accommodate the support of bottles of different size.

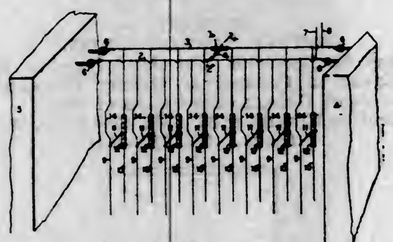
2,404,686
RESPIRATORY FILTERING DEVICE
Joseph B. Biederman, Cincinnati, Ohio
Application January 7, 1943, Serial No. 471,603
2 Claims. (Cl. 128—146)



1. In a device of the class described the combination of a body member having a central opening for the respiratory organs comprising a base

member and arms at the ends of the base member, said base member having a channel like offset, a wire frame having depending legs journaled in the channel walls for movement between the body member arms to a position ahead of the respiratory organs and a filter pad located in front of the wire frame and behind the body member, and said filter pad having a tongue portion extending between the wire frame legs whereby the said filtering pad extends at least to the bounding edge of the body member, and means for locking the wire frame in its forward position, comprising a T shaped member pivotally mounted in the offset channel having arms adapted to overlie the wire frame legs and a tongue projecting below the body member.

2,404,687
INSECT ELECTROCUTOR
Guy Bowser, Pinellas Park, Fla.
Application February 26, 1945, Serial No. 579,750
3 Claims. (Cl. 160—18)



1. A device of the kind described, comprising a normally open electrical charging circuit, and including independent groups of fretwork-like contacts spaced from each other for clearances between such groups and the contacts thereof, closing of said circuit being effected by engagement of an insect with contacts of both groups thereof.

2,404,688
READILY COMBUSTIBLE PLASTIC MATERIAL
Herman A. Bruson and George B. Butler, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 21, 1944, Serial No. 519,197
4 Claims. (Cl. 260—78)

1. A readily combustible plastic polymer of an ester having the formula

$$R—OCO—CH=CH—COO—R'$$

wherein R is a nitro hydrocarbon radical having one to ten carbon atoms and containing at least one nitro group for each four carbon atoms present in said hydrocarbon radical, only one nitro group being present on any single carbon atom thereof, and R' is the hydrocarbon residue of a monohydric β,γ-unsaturated primary aliphatic alcohol of not over four carbon atoms.

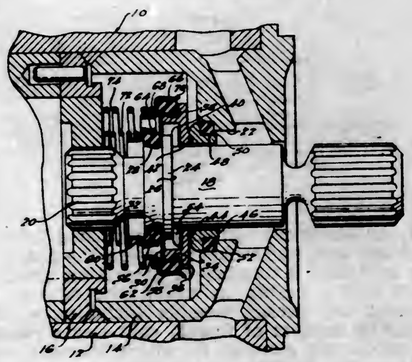
2,404,689
DOCTOR BLADE
Viggo Carlsen, Norwich, and Alwin Heinrich, Taftville, Conn., assignors to The Aspinook Corporation, Jewett City, Conn., a corporation of Delaware
Application January 16, 1945, Serial No. 572,998
1 Claim. (Cl. 101—153)

A doctor blade comprising a steel backing beveled down to a razor sharp edge and a plating of chromium on the unbeveled underside extending to the edge, the plated side of said edge being



adapted and arranged to bear on a printing roller of a textile printing machine.

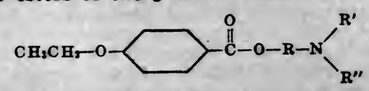
2,404,690
SHAFT SEAL
Michele Caserta, Detroit, Mich., assignor to Thompson Products, Inc., a corporation of Ohio
Application April 17, 1944, Serial No. 531,437
13 Claims. (Cl. 286—11)



9. In a fluid flow control device, a housing including a seal seat, a shaft extending into said housing, means providing a shoulder on said shaft, a diaphragm, a rotary seal member provided with a shoulder, a resilient gasket pressing said diaphragm against said first-named shoulder, a resilient gasket pressing said diaphragm against said second-named shoulder, and a washer having projections formed on opposite faces thereof which are angularly offset to allow a wobble action between said shaft and seal member.

2,404,691
CHEMICAL COMPOUNDS
Walter G. Christiansen, Glen Ridge, and Sidney E. Harris, Nutley, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Continuation of application Serial No. 163,034, September 9, 1937. This application August 30, 1944, Serial No. 552,013
6 Claims. (Cl. 260—473)

1. A compound of the group consisting of: amino esters of the general formula



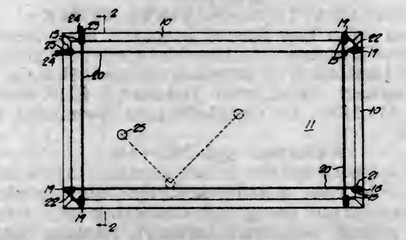
wherein R represents a divalent alkyl residue with 2 to 3 carbon atoms, and each of R' and R'' represents an alkyl residue with 2 to 4 carbon atoms; and acid-addition salts thereof.

2,404,692
PACKER ANCHOR
Walter L. Church, Houston, Tex.
Application April 22, 1943, Serial No. 484,105
7 Claims. (Cl. 166—12)



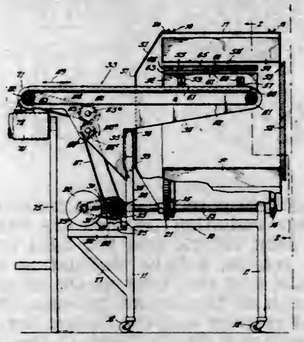
1. A device for forming a seal between an inner tubing and the walls of the well, and which includes an expansible sleeve-like packer with means beneath the packer for supporting the packer; a tubular upper cage above the packer around the inner tubing, radially movable wall engaging slips mounted in the cage, a downwardly tapering expander, a shearable pin securing the expander in the cage above the slips, an external projection on the tubing above the expander and engageable with the expander to move the cage downwardly to subject the packer to endwise compressive force to expand the packer, said pin being thereafter shearable by the weight of the inner tubing and the expander being thereupon movable downwardly between said slips to expand the slips into engagement with the walls of the well to maintain the packer expanded, and an external projection on the tubing engageable with the expander upon subsequent upward movement of the tubing to release the expander from the slips, means for retracting the slips upon such release to disengage them from the walls of the well to allow the packer to collapse and be withdrawn from the well.

2,404,693
GAME BOARD
Joseph Arthur Clark, South Bend, Ind.
Application April 26, 1943, Serial No. 484,520
5 Claims. (Cl. 273—9)



2. A game board comprising a rigid flat panel, a marginal frame therefor, a plurality of runs of taut wire spanning said panel at an elevation thereabove to define a closed playing area spaced inwardly of said frame, wire positioning members carried by said frame, said wire runs intersecting at vibratory portions thereof, said panel having an opening at its marginal portion and extending into said playing area, and a closure for said opening below the level of said panel and defining a pocket.

2,404,694
PARTICLE APPORTIONING DEVICE
Morris Cohen, Kansas City, Mo., and Gerald A. Jorgenson, Chicago, Ill., assignors to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware
Application November 23, 1942, Serial No. 466,614
7 Claims. (Cl. 259—14)



1. In a device of the class described, the combination with a conveyor, of a pair of spaced apart shield members providing a shield disposed over the conveyor providing a restricted opening between said shield members shielded on both sides thereof vertically aligned with and spaced above said conveyor, a rotatable drum surrounding the conveyor and shield members, blades in the drum for lifting particles disposed therein from the bottom of the drum to the top thereof and dropping them on said shield, whereby some of said particles pass through said opening onto the conveyor and others may fall back into the drum, means for rotating the drum and operating the conveyor, and means for adjusting the size of the opening between said shield members to vary the number of particles disposed on the conveyor during a given period of operation of the device, and to cause a controlled stream of particles to be deposited on said conveyor.

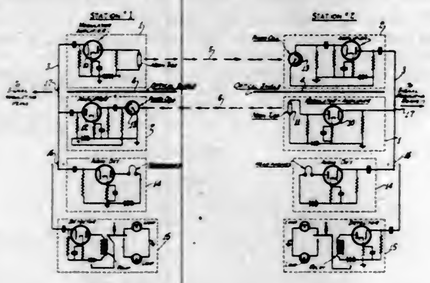
2,404,695
MANUFACTURE OF ARYL SULPHENAMIDES
Ralph A. Coleman, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 31, 1944, Serial No. 552,197
1 Claim. (Cl. 260—551)

As a new compound 2,5-dichloro phenyl sulphenamide.

2,404,696
COMMUNICATION AND RECOGNITION SYSTEM
Harmon B. Deal, Glen Ridge, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 12, 1942, Serial No. 461,734
6 Claims. (Cl. 250—7)

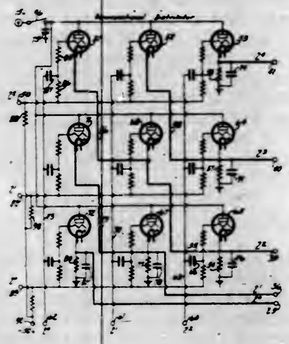
2. A communication system for use between a pair of vehicles, each of said vehicles having a

transmitter for directively sending out light waves and a receiver arranged to receive and amplify light waves, a circuit at each vehicle coupling the output of the receiver to the input of the transmitter, means optically shielding the transmitter and receiver of each vehicle from each other, whereby the apparatus at said pair of vehicles within a distance in the optical range from each



other constitute a regenerative circuit by virtue of the space radiation between the light transmitter of each vehicle and the light receiver of the other vehicle, a light modulating circuit at each vehicle, and switching means at each vehicle for breaking the circuit between the transmitter and receiver and for connecting the light modulating circuit to the input of the transmitter.

2,404,697
CALCULATING DEVICE
Joseph R. Desch, Oakwood, and Robert E. Mumma, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application March 21, 1942, Serial No. 435,746
21 Claims. (Cl. 235—60)

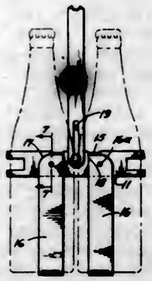


1. In combination a plurality of electron tubes each representing a denomination of a multiplier so connected in a circuit that they are operable one at a time in sequence in response to each of commonly received electric impulses; and a second plurality of electron tubes arranged in a chain, each plurality representing a denomination of a multiplicand so connected in a circuit that conduction in one tube renders the next tube in the chain conducting, said group being connected to said first group of tubes so that at the end of a complete sequential cycle of operation of the multiplicand tubes a potential impulse is impressed upon the multiplier tubes to operate them a step in the sequence.

2,404,698
INSECT REPELLENT COMPOSITION
Alfred Dreyling, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1945, Serial No. 571,357
10 Claims. (Cl. 167—30)

1. A non-aqueous insect repellent composition of gel-like consistency substantially free from highly volatile solvents comprising a plurality of cellulose derivatives selected from the group consisting of cellulose esters and cellulose ethers and at least one non-volatile insect repellent which is a solvent for the cellulose derivatives separately, the said cellulose derivatives being incompatible when combined in the said repellent whereby a gel-like consistency is obtained.

2,404,699
BOTTLE CARRIER
Arthur H. Edgerton, Rocky River, Ohio, assignor to Convenient Carrier Corporation, Cleveland, Ohio, a corporation of Ohio
Application August 5, 1944, Serial No. 548,180
3 Claims. (Cl. 224—45)

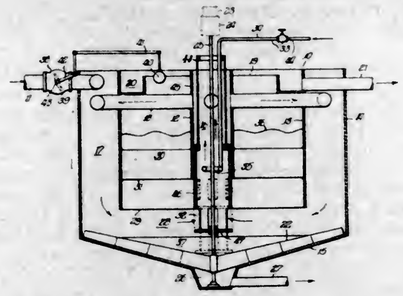


1. A bottle carrier comprising a continuous loop of narrow metal formed to envelop a plurality of bottles arranged in parallel contiguous rows, curved sections in said loop configured for engagement with portions of the side walls of bottles enveloped by said loop, tongues pierced from said curved sections and formed to partially envelop the side walls of the bottles enveloped by said loop, a pair of cradles formed of strip metal pivotally mounted in spaced relation on the end portions of said loop, the bottom portion of each of said cradles constituting a supporting medium for a row of bottles, said cradles being formed to fold outwardly over the sides of said loop and lie in a common plane therewith.

2,404,700
MANUFACTURE OF VINYL ETHERS
William John Roy Evans, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 2, 1945, Serial No. 571,121. In Great Britain November 25, 1943
4 Claims. (Cl. 260—345)

1. A process for the production of vinyl ethers which comprises passing acetylene and an alcohol taken from the group consisting of methyl, ethyl, propyl, isopropyl, isobutyl, tertiary butyl, and tetrahydrofurfuryl alcohols into a liquid reaction medium taken from the group consisting of secondary and tertiary aromatic amines containing the potassium alkoxide corresponding to the alcohol passed into the composition, at a temperature of 150° C. to 200° C.

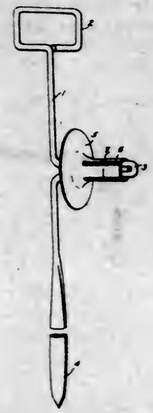
2,404,701
LIQUID TREATMENT
John J. Felsecker, Calumet City, Ill., assignor to Graver Tank & Mfg. Co., Inc., a corporation of Delaware
Original application July 6, 1942, Serial No. 449,968, now Patent No. 2,377,545, dated June 5, 1945. Divided and this application January 10, 1944, Serial No. 517,741
5 Claims. (Cl. 210—16)



1. Apparatus for liquid treatment comprising a tank having a peripheral wall, an annular baffle concentric with said wall and extending from a point adjacent to the top of said tank to a point above the bottom of said tank, thereby separating an outer primary chamber from an inner sludge filtration zone, inlet means adapted to discharge liquid to be treated and any reagents required into said tank remotely from said sludge filtration zone, liquid outlet means adjacent to the top of said tank in the space inside said annular baffle, circulator means adapted to cause a flow from the space within the lower part of said annular baffle to the space outside of the upper part of said annular baffle, sludge outlet means associated with the bottom of said tank, and means adapted to convey sludge over the bottom of said tank to said sludge outlet means, said circulator means comprising a fixed updraft tube centrally and vertically disposed in said tank, means for liquid communication between the top of said updraft tube and the space between said peripheral wall and said annular baffle, a movable tube in telescopic relationship with the lower part of said fixed updraft tube, and means to set the movable tube in a predetermined position, said tubes being adapted to provide liquid communication with the lower part of said sludge filtration zone at an elevation which depends on the setting of said movable tube.

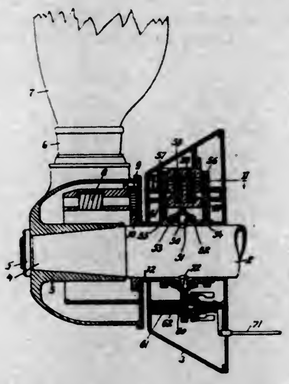
2,404,702
FISHING REEL
John Fiori, Poughkeepsie, N. Y.
Application March 29, 1945, Serial No. 585,446
3 Claims. (Cl. 242—85)

1. A reel for fishing line or the like comprising a holder having a handle on one end and having a right angle projection at a middle portion and having a pointed portion on the other end, a detachable split bearing coacting with and slideable over the right angle projection of the holder and having a circular depression therein engageable on the inside with an indent in the right angle projection of the holder, and a flat plate having an odd numbered plurality of projections about its perimeter and having a plurality of holes therein grouped about the center thereof and a central hole therein coacting with the split bearing to slide over the depressed ends of



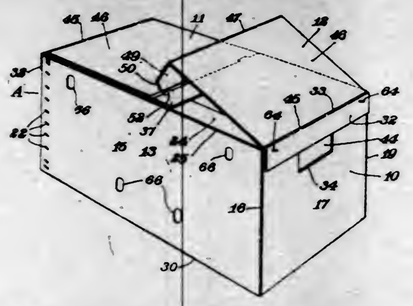
the same and turnably engageable with the outside of the circular depression in the same.

2,404,703
VARIABLE PITCH AIR PROPELLER
Ernst Florian and Heinrich Petersen, Berlin-Reinickendorf, and Manfred Christian, Berlin-Dahlem, Germany; vested in the Alien Property Custodian
Application July 12, 1940, Serial No. 345,132
In Germany July 13, 1939
4 Claims. (Cl. 170—163)



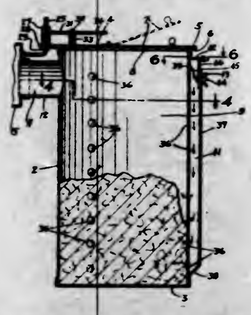
1. In a variable pitch propeller mechanism comprising a plurality of blades, a driving shaft for rotating said blades, a centrifugal governor driven by said shaft, a gear train for simultaneously varying the pitch of said blades including planetary pinions rotating with said shaft, two toothed rims encircling said shaft and operatively connected with said planetary pinions for normally causing rotation thereof in unison with said shaft, two stationary hydraulic gear pumps, two gears for connecting each of said rims with a corresponding one of said pumps, feeding pipes for feeding a hydraulic liquid to said pumps and discharge pipes for discharging the hydraulic liquid from each of said pumps, a control piston in said discharge pipes actuated by said centrifugal governor for selectively controlling the flow of the hydraulic liquid to one of said gear pumps.

2,404,704
COMPARTMENTED FIBERBOARD EGG CASE
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application April 29, 1943, Serial No. 484,963
15 Claims. (Cl. 229—15)



1. An egg case comprising a substantially rectangular shell having side and end walls, foldably connected flaps on the lower edge of said side walls, a pair of compartment forming members within said shell each comprising a partition wall in interlocking relation with said flaps, a bottom wall designed to underlie said flaps, and an end reinforcing wall arranged in parallel contacting relation with an end wall of said shell.

2,404,705
COMBINATION HEATER AND REFUSE BURNER
Daniel Handelan, Minneapolis, Minn., assignor of one-half to Elvin H. Wilson, Minneapolis, Minn.
Application August 27, 1943, Serial No. 500,229
1 Claim. (Cl. 110—8)

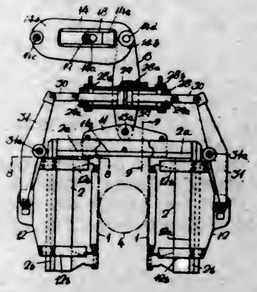


In an apparatus of the class described, a casing having a closed bottom and providing a combustion chamber, said casing having a fuel-receiving opening at its upper end normally closed by a suitable closure, means providing a series of vertically disposed air ducts adjacent to the wall of the casing, said ducts being spaced apart circumferentially of the casing and each duct extending substantially the full height of the combustion chamber, the wall of each duct having a plurality of vertically spaced draft openings therein comprising the only communication between said ducts and the combustion chamber and whereby each duct is in communication with the combustion chamber at various levels substantially the full height of the combustion chamber, each of said ducts being open to the atmosphere exteriorly of the casing at one of its ends and serving to supply fresh air to said draft openings to support combustion at various levels in the combustion chamber, and whereby a bed of fuel within the combustion chamber may be ignited at the top of the fuel bed and will burn slowly in a downward direction.

2,404,706
FLUORINATION
Jesse Harmon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1943, Serial No. 504,951
5 Claims. (Cl. 260—653)

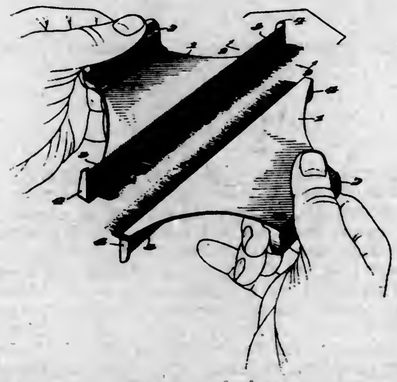
1. The process for preparing a compound having the general formula $F_nX_{(3-n)}C-CY=CY_2$ wherein n is a positive integer within the range of from 1 to 3, the X substituents are halogens having an atomic weight of greater than 30 and the Y substituents are monovalent radicals selected from the group consisting of hydrogen, halogens and monovalent hydrocarbon radicals, at least one of the Y substituents being a halogen, which comprises heating a compound having the general formula $F_mX_{(3-m)}C-CY=CY_2$, wherein m is a number smaller than n selected from the group consisting of zero and positive integers less than 3, the X substituents are halogens having an atomic weight of greater than 30 and the Y substituents are monovalent radicals selected from the group consisting of hydrogen, halogens and monovalent hydrocarbon radicals, at least one of the Y substituents being a halogen, with a fluorinated methane in the presence of an anhydrous Friedel-Crafts type catalyst.

2,404,707
METAL SAWING MACHINE
Takao Hasegawa, Osaka, Japan; vested in the Alien Property Custodian
Application August 14, 1940, Serial No. 352,616
In Japan August 30, 1939
8 Claims. (Cl. 29—74)



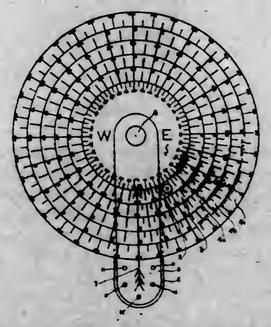
1. In a sawing machine, the combination of means to support a mass of material to be sawed; a pair of saws disposed adjacent opposite sides of said mass, respectively, and adapted to be reciprocated along two paths lying in a plane transverse to the longitudinal axis of the mass, said paths being at an angle of 90° to one another; means adapted to reciprocate said saws along one of said paths; and means adapted to reciprocate said saws along the other of said paths, said two reciprocating means being adapted to so co-act that the saws are moved toward each other along one of said paths, to cut progressively deeper into said mass, on each stroke in one direction along the other of said paths, are moved along said first path, away from each other and slightly away from said mass, at the end of said stroke and during a portion of the stroke in the opposite direction along the second path, and are held against movement along said first path during the remainder of the last mentioned stroke.

2,404,708
SAMPLING DEVICE
Kenneth L. Hertel, Knoxville, Tenn., assignor to University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee
Application August 3, 1942, Serial No. 453,422
4 Claims. (Cl. 19—115)



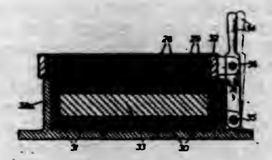
3. A process of preparing a sample of fibers for analysis comprising clamping a mass of fibers loosely on the teeth of a comb, engaging the fibers outwardly of the teeth of the comb with a second comb and drawing the second comb outwardly through the fibers combing the fibers substantially into parallel relation, the combing action imposing a sufficient drag on the fibers by the teeth of the first comb as to retain a substantial mass of fibers thereon while allowing slippage of the fibers into relative random positions.

2,404,709
CALCULATING INSTRUMENT
Ebenezer Hill, Stamford, Conn.
Application July 10, 1945, Serial No. 604,234
7 Claims. (Cl. 235—78)



1. A calculating instrument comprising four superposed disks of diameters progressively increasing from top to bottom, rotatably mounted at a common center between a handle and a rider affixed to said handle said top disk being provided with graduations indicating east and west longitude; and said second and third disks being provided with graduations indicating hours and minutes from zero to 24 counterclockwise; and said fourth disk being provided with three scales, one within the other and having their zero points in alignment, said inner scale representing hours and minutes from zero to 24 clockwise and said middle scale representing hours and minutes from zero to 12 in both directions, and said outer scale representing degrees of arc from zero to 180 clockwise and from zero to 180 counterclockwise; and an arrow carried by said rider extending radially across said disks with its point bearing on the perimeter of said longitude disk.

2,404,710
PERMANENT MAGNET STRUCTURE
Stanley Isaiah Hitchcock, London, England
Application July 2, 1943, Serial No. 493,238
In Great Britain July 14, 1942
4 Claims. (Cl. 175—367)



1. A permanent magnet structure comprising a permanent magnet having a flux leakage path between its poles, and an armature member for use therewith said flux leakage path and armature member being constructed in a similar manner and being built up of a series of members composed of soft iron or other magnetic material having a high initial permeability and intervening spacing members of non-magnetic material, and means for moving said armature member endwise from a position in which the soft iron members of the armature and flux leakage path lie opposite or in line into a position in which the parts occupy a staggered position and vice versa, for the purpose of controlling the passage of the lines of magnetic force emanating from the permanent magnet, through the armature member, and thereby increasing or decreasing the attractive force between the permanent magnet and its associated armature member.

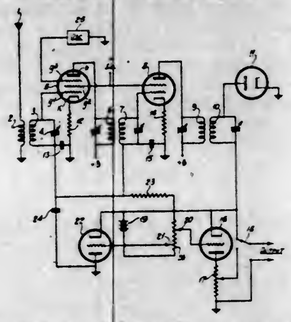
2,404,711
POLYMERIZATION PRODUCTS FROM AROMATIC CARBONYL COMPOUNDS AND AROMATIC VINYL COMPOUNDS
Ulrich Hoffmann and Helmut Meis, Marl, Kreis Recklinghausen, Germany; vested in the Alien Property Custodian
No Drawing. Application July 30, 1941, Serial No. 404,618. In Germany June 26, 1940
2 Claims. (Cl. 260—50)

1. The process which comprises causing polymerization catalysts selected from the group consisting of bleaching earths and acid reacting substances to react upon aromatic compounds which are nuclearly substituted by the radical $CH_2=CH-$ in the absence of water and in the presence of such ketones as have the carbonyl group conjugated with a C=C double linkage and in the presence of an oxygen-containing compound selected from the group consisting of phenols and phenolalkylethers.

2,404,712
GAIN CONTROL CIRCUIT FOR RADIOTELEGRAPH

R. Lee Hollingsworth, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 30, 1943, Serial No. 516,148
7 Claims. (Cl. 250—20)



1. In an interrupted carrier wave receiver an automatic gain control circuit comprising means for rectifying the output from said receiver, a first electron discharge tube the space path of which is in series with said rectifying means, said tube having a cathode, an anode and a control grid, a load resistor connected between said anode and ground, a second electron discharge tube the space path of which is connected in shunt between the cathode of the first said tube and ground, said second tube having a cathode, an anode and a control grid, means for maintaining different threshold biases on the grids of said tubes whereby the first said tube is rendered non-conductive in the presence of signal and noise energy below a predetermined level, and the second tube is held non-conductive in the presence of rectified signal energy within a normal volume range, and a time constant circuit comprising series resistance and shunt capacity so connected as to supply gain control potentials to the amplifier stages of said receiver, said potentials being subject to the limiting action of said discharge tubes.

2,404,713
METHOD FOR PREPARING POLYMERIC SOLUTIONS

Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 23, 1943, Serial No. 491,945
13 Claims. (Cl. 260—32)

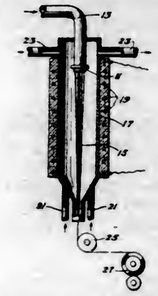
1. The process of forming clear and substantially colorless solutions of an acrylonitrile polymer containing at least 85% by weight of combined acrylonitrile, which comprises commingling such polymer in a finely divided form with a solvent having marked dissolving power for said polymer at high temperatures while maintaining the polymer in the form of discrete particles, and thereafter heating the mass to a temperature at which said solvent dissolves said polymer.

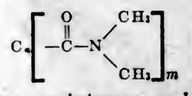
2,404,714
POLYMER PRODUCTS

George Henry Latham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 4, 1944, Serial No. 562,012
15 Claims. (Cl. 260—32)

1. As a new composition of matter a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile and a dimethyl carbamyl compound embraced by the formula:



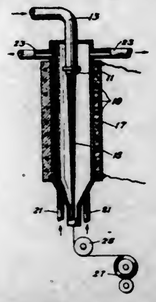


wherein m and n are integers, m being at least 1, n being of such a value that the ratio n/m does not exceed 1.5, except that when m equals 1, n must equal zero, all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula being satisfied by a substituent taken from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, hydroxyl, thiol, cyano, thiocyano and sulfoxy; the total number of said halogen, oxygen, sulfur, hydroxyl and thiol substituents not exceeding one half the value of m and the total number of cyano, thiocyano and sulfoxy groups not exceeding the value of m.

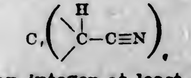
2,404,715
POLYMER SOLUTIONS

Arthur O. Rogers, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 4, 1944, Serial No. 562,013
11 Claims. (Cl. 260—32)



1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in an organic nitrile compound embraced by the formula:



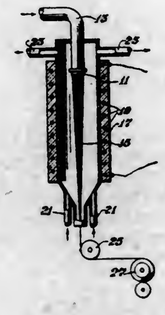
wherein q is an integer at least equal to 2; p is an integer at least equal to zero such that the ratio p/q does not exceed 1.5; all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula being satisfied by a substituent taken

from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, thiol, hydroxyl, cyano, thiocyano and sulfoxy; the total number of halogen, oxygen, sulfur, hydroxyl and thiol substituents not exceeding one half the value of q and the total number of cyano, thiocyano and sulfoxy groups not exceeding the value of q.

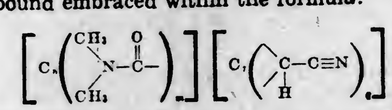
2,404,716
POLYMER PRODUCTS

Virgil L. Hansley, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 4, 1944, Serial No. 562,014
17 Claims. (Cl. 260—32)



1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in a dimethyl amide nitrile compound, said compound embraced within the formula:



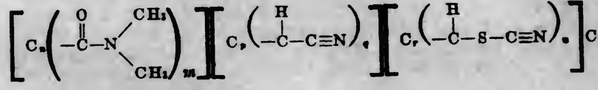
wherein m and q are integers at least equal to 1; n and p are integers of such value that n/m does not exceed 1.5 and p/q does not exceed 1.5; all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula being satisfied by a substituent taken from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, hydroxyl, thiol, cyano, thiocyano and sulfoxy; the total number of halogen, oxygen, sulfur, hydroxyl and thiol substituents not exceeding one half the sum of $m+q$ and the total number of cyano, thiocyano and sulfoxy radicals not exceeding the sum of $m+q$.

2,404,717
PREPARATION OF SOLUTIONS

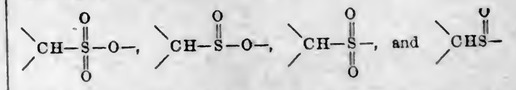
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 4, 1944, Serial No. 562,015
15 Claims. (Cl. 260—32)

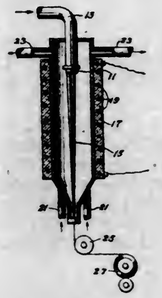
1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile and a compound embraced by the formula:



wherein **X** represents a member of the class consisting of



the free valence of the sulfoxy group being also attached to carbon; m, q and u are integers at least equal to zero; w is an integer at least equal to 1; n, p, r and v are integers of such value that n/m does not exceed 1.5; p/q does not exceed 1.5; r/u does not exceed 0.5 and v/w does not exceed 2; all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula



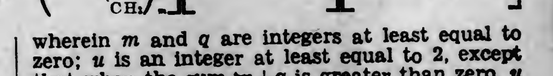
being satisfied by a substituent taken from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, hydroxyl, thiol, cyano, thiocyano and sulfoxy; the total number of said halogen, oxygen, sulfur, hydroxyl and thiol substituents not exceeding the sum $(m+q+u+w)$ and the number of cyano, thiocyano and sulfoxy groups not exceeding the sum $(m+q+u+w)$.

2,404,718
DISSOLVING OF POLYMERS

Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

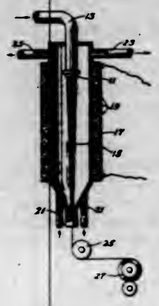
Application November 4, 1944, Serial No. 562,016
13 Claims. (Cl. 260—32)

1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in an organic thiocyanomethylene compound embraced by the formula:



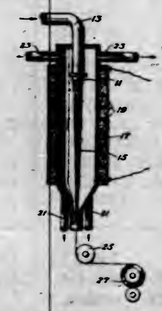
wherein m and q are integers at least equal to zero; u is an integer at least equal to 2, except that when the sum $m+q$ is greater than zero, u may equal 1; n, p and r are integers of such value that n/m does not exceed 1.5; p/q does not exceed 1.5 and r/u does not exceed 0.5; all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula being satisfied by a substituent taken from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, hydroxyl, thiol, cyano, thiocyano and sulfoxy radicals; the total number of halogen, oxygen, sulfur,

hydroxyl and thiol substituents not exceeding one half the value of $m+q+u$, and the total number

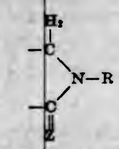


of such cyano, thiocyano and sulfoxy groups not exceeding the sum $m+q+u$.

2,404,719
ACRYLONITRILE POLYMER SOLUTIONS
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 4, 1944, Serial No. 562,017
15 Claims. (Cl. 260—32)



1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylontrile dissolved in a cyclic organic compound composed of a singe 3–8 membered ring containing within the ring the grouping:



wherein R represents



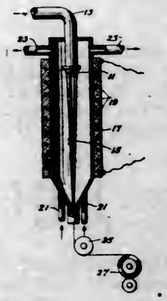
and Z represents a member of the class consisting of H_2 and O, not more than one of the ring members being a bivalent chalcogen of atomic weight less than 33, the remaining ring members being carbon, said compound being otherwise free from side groups containing carbon atoms; otherwise unsatisfied valences of the ring members being satisfied by hydrogen and not more than one substituent taken from the group consisting of oxygen, bivalent sulfur, halogen, hydroxyl and thiol.

2,404,720
POLYMER PRODUCTS
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 4, 1944, Serial No. 562,018
10 Claims. (Cl. 260—32)

1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in an aromatic compound taken from the group consisting of:

Ortho phenylene diamine
Meta phenylene diamine
Para phenylene diamine
2,2',4,4'-tetramino 5,5'-dimethyl diphenyl methane
4,4'-diamino benzophenone
2,6-diamino pyridine
2,4,6-triamino toluene.

2,404,721
POLYMER PRODUCTS AND PROCESS FOR PRODUCING THE SAME
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 4, 1944, Serial No. 562,019
11 Claims. (Cl. 260—32)



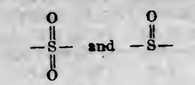
1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in an aromatic compound taken from the group consisting of:

m-Nitrophenol
p-Nitrophenol
1-nitro-beta-naphthol
3-nitro-beta-naphthol
4-nitro-beta-naphthol
2-nitro-alpha-naphthol
3-nitro-alpha-naphthol
4-nitro-alpha-naphthol

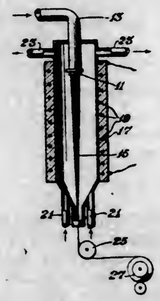
2,404,722
ACRYLONITRILE POLYMER SOLUTIONS
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 4, 1944, Serial No. 562,020
15 Claims. (Cl. 260—32)

1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in a cyclic compound comprising a 4–7

membered ring containing within the ring one sulfoxy group taken from the class consisting of

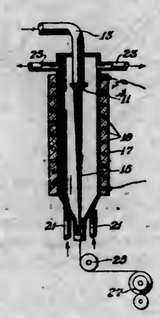


the total carbon of the compound to sulfoxy group ratio being at least 4, the free valences of the sulfoxy groups being attached within the ring to

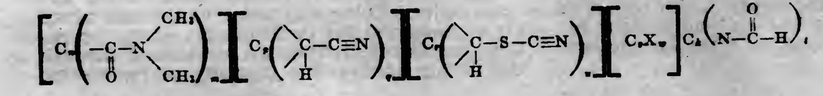


carbon atoms, the remaining ring members being carbon and not to exceed one member selected from the group consisting of O, S and N, otherwise unsatisfied valences of the ring members being satisfied by hydrogen atoms and not to exceed one substituent taken from the group consisting of halogen, oxygen, bivalent sulfur, hydroxy, thiol, methyl and methoxy.

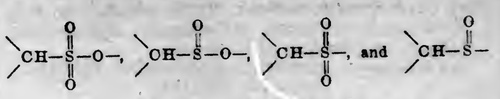
2,404,723
PREPARATION OF POLYMER SOLUTIONS
Richard R. Merner, Deerfield, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 10, 1944, Serial No. 562,857
11 Claims. (Cl. 260—32)



1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in an organic compound embraced by the formula:



wherein X is a member of the class consisting of



the free valences of the sulfoxy group being attached also to carbon; both valences of the nitrogen atom of the formyl imido group are attached to hydrocarbon carbon atoms; t is an integer at least equal to 1; m, q, u, and w are integers at least equal to zero; $m+q+u+w+t$ is at least equal to 2; n, p, r, v and k are integers at least equal to zero; k/t does not exceed 3; v/w does not exceed 2; r/u does not exceed 0.5; p/q does not exceed 1.5 and n/m does not exceed 1.5, all valences of said compound other than those contained in carbon-to-carbon linkages and not shown as satisfied in the formula being satisfied by a substituent taken from the group consisting of hydrogen, halogen, oxygen, bivalent sulfur, hydroxyl, thiol, cyano, thiocyano and sulfoxy; the total number of such halogen, oxygen, sulfur, hydroxyl and thiol substituents not exceeding one half $m+q+u+w+t$ and the total number of cyano, thiocyano and sulfoxy substituents not exceeding $m+q+u+w+t$.

2,404,724
PREPARING SOLUTIONS OF POLYMERS
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 18, 1944, Serial No. 564,181
9 Claims. (Cl. 260—32)

2. A new composition of matter comprising a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in N,N-dimethylmethoxyacetamide.

2,404,725
POLYMER SOLUTIONS
Arthur O. Rogers, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 18, 1944, Serial No. 564,182
9 Claims. (Cl. 260—32)

2. A new composition of matter comprising a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in N,N-dimethylcyanamide.

2,404,726
POLYMER COMPOSITIONS AND THEIR PREPARATION
William Hale Charch, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 18, 1944, Serial No. 564,183
9 Claims. (Cl. 260—32)

1. A new composition of matter comprising a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile and a compound taken from the class consisting of hydracrylonitrile and glycolonitrile.

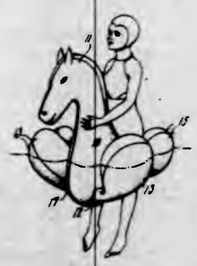
2,404,727
DISSOLVING OF POLYMERS
Ray Clyde Houtz, Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 14, 1944, Serial No. 568,194
9 Claims. (Cl. 260—32)

1. A new composition of matter comprising a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile and a compound taken from the class consisting of malononitrile, methylene thiocyanate and cyanomethylene thiocyanate.

2,404,728
METHOD OF PREPARING POLYMERIC SOLUTIONS
Theron G. Finzel, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Continuation of application Serial No. 491,943, June 23, 1943. This application May 11, 1945, Serial No. 593,319
7 Claims. (Cl. 260—32)

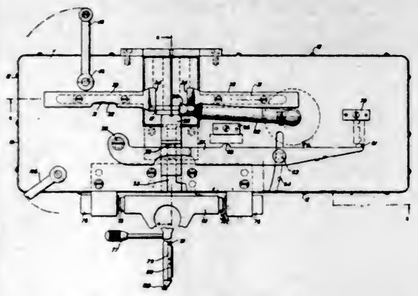
1. The process of forming clear and substantially colorless solutions of acrylonitrile polymers which dissolve with difficulty and tend to develop color upon heating or prolonged standing, which comprises mixing such polymer in a finely divided state with a solvent for the polymer, said solvent containing incorporated therein as an agent to reduce the solubility of the polymer in said solvent a gaseous acidic anhydride, to form a slurry, and thereafter heating the slurry to a temperature sufficiently high to effect solution of the polymer while driving off the anhydride in the form of a gas, and maintaining such elevated temperature until a homogeneous and clear solution is formed.

2,404,729
WATER TOY
Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 24, 1944, Serial No. 537,117
5 Claims. (Cl. 9—17)



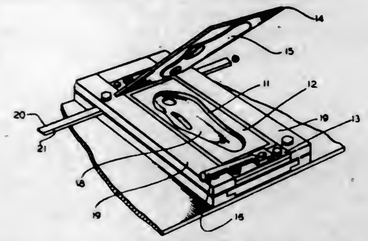
1. An inflated water toy comprising a body and four flexible legs extending downwardly from the body and terminating in enlarged oblate spheroidal members which are so connected to the body by the legs that as the body is submerged the legs will bend and permit the buoyant oblate and spheroidal members to rise at the sides of the body to the approximate height of the upper surface of said body and thereby increase the stability of the toy when largely submerged.

2,404,730
SOLDERING APPARATUS
Sven G. Johansson, Cranford, and Henry C. Siechta, Plainfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 2, 1944, Serial No. 533,714
5 Claims. (Cl. 113—59)



1. In a soldering apparatus, a support for articles of varied contours, a unit movable relative to the support to successively feed parts to a given position relative to the support for soldering to the articles, a locating element, a positioning member, an arm pivotally supported for movement relative to the positioning member varied distances measured by articles disposed between the positioning member and the arm to position the element to singly locate predetermined portions of the articles at the given position, and means actuable to hold the article singly against displacement in the located positions.

2,404,731
MAKING INSOLES
Ross H. Johnson, Indianapolis, Ind.
Application November 29, 1943, Serial No. 512,217
3 Claims. (Cl. 12—146)

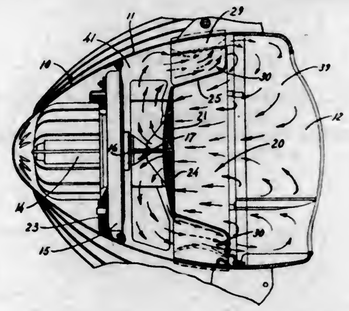


1. The method of making an insole for shoes, which comprises slicing the same from a block of sponge rubber while it is compressed between upper and lower dies, which dies are formed into the desired shape to provide metatarsal and longitudinal arch supporting means and a heel cup socket.

2,404,732
DRYING APPARATUS
Carl E. Koch, Chicago, Ill., assignor to American Beauty Products Co., Chicago, Ill., a corporation of Illinois
Application September 11, 1943, Serial No. 501,925
1 Claim. (Cl. 34—81)

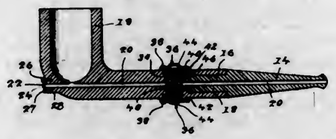
In a drier assembly having spaced inner and outer walls defining a drying area through which air is circulated for performing a drying operation, means for creating an air stream through the drying area, and a plurality of replaceable

hygroscopic means disposed adjacent said drying area, said hygroscopic means being disposed extending through the outer wall and in the path of the air stream and shaped to define with the inner wall a restricted and substantialy tortuous path for the air stream exposing thereto an area of contact in excess of the greatest plane dimen-



sion of the means and causing substantially all of the air to come in contact with the hygroscopic means to remove moisture therefrom before returning it to the drying area, and said hygroscopic means each having a grasping portion projecting outwardly of said outer wall for separate removal of said means without disassembly or opening of said drier assembly.

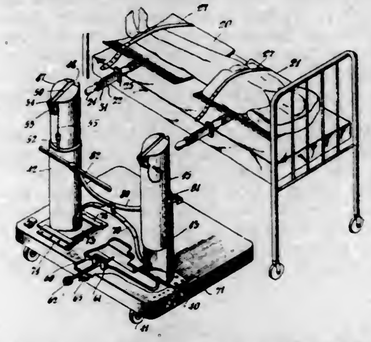
2,404,733
SMOKER'S PIPE
Jesse Leedy and Lawrence Patrick, Lima, Ohio
Application September 23, 1943, Serial No. 503,552
3 Claims. (Cl. 131—202)



1. In a smoking pipe having a stem and a mouth piece each provided with a smoke passage and said passages being in axial alignment, said stem being provided with an enlarged bore crossing and intersecting said passage at right angles to provide a well, said bore traversing said stem and being open at its ends, covers on the stem to close said bore at its ends, filter means in said bore and removable from either of its ends, and a core extending diametrically through the filter means transversely of the passage, but terminating short of the ends of the filter means.

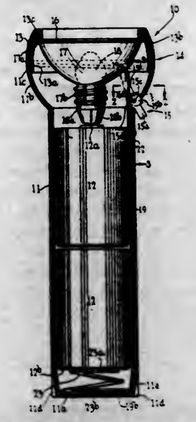
2,404,734
APPARATUS FOR HANDLING RECUMBENT PERSONS
John E. Lenahan, Cornwall on the Hudson, N. Y.
Application August 22, 1944, Serial No. 550,636
8 Claims. (Cl. 5—86)

8. Apparatus for handling recumbent persons including in combination a pair of supporting members of area sufficient to underlie a substantial portion of a person's body, handles connected to either member for introducing said members individually beneath a person's body, said handles extending rigidly from said members to loci remote from said person's body when the respective members so underlie said body, a carriage movable toward and away from said loci, said carriage having a pair of upstanding vertically movable hydraulic jack plungers spaced apart and having means for rigidly engaging the projecting handles to provide cantilever support therefor, operator-controlled means for raising



and lowering said plungers together to lift the person lying upon the supporting members from the bed and to lower him as desired, and means for varying the lateral distance between said plungers for engagement with said projecting handles.

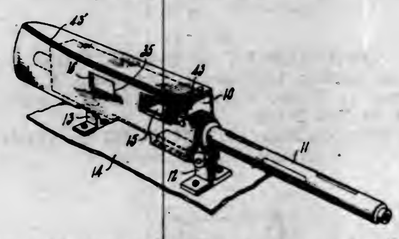
2,404,735
FLASHLIGHT CONSTRUCTION
Joshua Gordon Lippincott, Scarsdale, N. Y., assignor to Guth, Stern & Co., Inc., a corporation of New York
Application June 15, 1944, Serial No. 540,418
7 Claims. (Cl. 240—10.66)



6. In a flashlight of the character described, having a single molded plastic battery casing comprising an elongated tubular body of substantial uniform circular cross-section formed with a closed end bottom and a bulbous hollow hemispherical open end top opposite said bottom, a metallic strip jumper secured to extend lengthwise the interior side of said body and bottom to provide an electrical conductor for connecting with an under terminal of a dry cell battery housed in the casing, the end of said jumper at said open end top terminating in a toggle switch connecting part formed with an integral spring blade contact adapted to connect said battery in circuit, a rivetted fastening means for rigidly securing said jumper at an inner part of the blade contact to said body, gripper attachment means

provided on portion of the jumper end adjoining the blade contact at a spaced distance from said fastening means, an anchorage boss molded on an interior wall of bulbous open end top for engaging with said gripper attachment means, a toggle-like switch-lever extending through the casing having stub shafts trunnioned on said boss for actuating said blade spring contact in making and breaking a circuit connection, said anchorage boss having open ended slots to serve as bearings for trunnioning said stub shafts therein, said gripper attachment means being formed by slitting and bending the end of said jumper to provide an integral spring mounting projecting into said slot for confining the stub shafts therein, and a single molded lens cap removably mounted on the open end top of greater sectional thickness than that of the adjoining casing, the exterior of said cap forming a continuous surface with that of said open end to provide a "tulip" shape head for the flashlight.

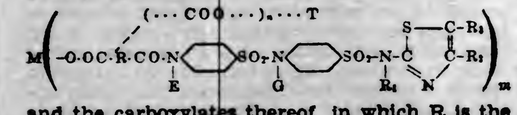
2,404,736
ELECTRICALLY HEATED COVER
Louis Marick, Grosse Pointe Farms, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 2, 1942, Serial No. 457,021
1 Claim. (Cl. 219—19)



An electrically heated cover constructed to enclose a machine gun having an outer casing formed with walls disposed at an angle to each other, said cover being formed of fabricated flexible sections of a corresponding size to the respective walls of said casing and connected by hinge-like lines of fold of reduced thickness and also having side openings providing access to the casing, electrically operated non-metallic heating units secured to the inner face of said sections and disposed so as to clear said openings and having conductor wires leading thereto, and means for fastening the cover in folded relation about the casing.

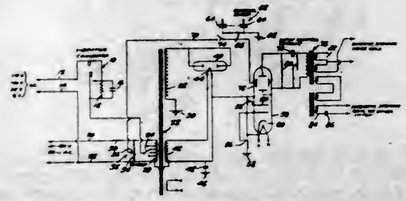
2,404,737
SULPHANILYLSULPHANILAMIDE DERIVATIVES
Maurice L. Moore, Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application July 5, 1943, Serial No. 493,578
20 Claims. (Cl. 260—239.6)

1. N^4 - carboxyacyl - N^1 - [4 - (2 - thiazolyl - sulphamyl) - phenyl] - sulphanilamides having the general formula



and the carboxylates thereof, in which R is the residue of a polycarboxylic acid stripped of its carboxyl groups; n is selected from zero and any whole number less than five; E, G and R_1 are each separately and independently a member of the class consisting of hydrogen and alkyl, aralkyl and aryl radicals; and the thiazole ring together with R_2 and R_3 attached to that ring represent a member of the class consisting of thiazole radicals.

2,404,738
OSCILLOGRAPH
Albert E. Moulin, Jr., and Paul W. Orchard, Jr., New Orleans, La.
Application October 22, 1942, Serial No. 463,016
6 Claims. (Cl. 315—28)

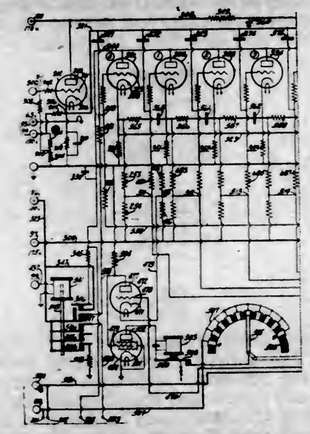


1. In an oscillograph circuit, the combination of an impedance matching transformer, a cathode ray tube having a cathode, heater element therefor, grid and deflecting plates, a control circuit for the input to said cathode ray tube from said transformer, a rectifier tube having plates connected in parallel and a filament connected with the grid and heater-cathode elements of said cathode ray tube, a power transformer having a high voltage secondary winding connected with the plates of said rectifier tube and a secondary winding connected with the filament thereof, means for selectively supplying alternating current or converted direct current to the primary winding of the transformer, and a sweep voltage control shunted across the primary winding of said power transformer and leading to a deflecting plate of the cathode ray tube to cancel out any desired amount of sweep effect.

2,404,739
CALCULATING MACHINE
Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 18, 1940, Serial No. 346,087
3 Claims. (Cl. 315—323)

1. In combination, an electronic counting device including a plurality of digit representing electron tubes each having at least an anode, a cathode, and a control element, which device is actuated by excursions of potential commonly applied to the control elements of said tubes; an input conductor for said counting device; an actuator for said counting device including a gaseous electron tube having at least an anode connected directly to a constant anode potential source, a cathode connected to the input conductor and also connected through a resistance and capacitance in parallel to a constant source of cathode potential, and a control element normally biased to prevent conduction in the said actuator tube; means coupling the control elements of the counting device tubes each, electrostatically, to the input conductor and each, conductively, through a resistance to a source of biasing potential, the circuit elements of resistance, capacitance, and distributed inductance of the actuator tube, the input conductor, and the digit

tube couplings thereto being of such value that commencement of conduction in the actuator tube causes its own extinguishment by reason of the ensuing oscillatory rise in potential of its



cathode; and selectively operable means acting upon the control element of the actuator tube to cause said actuator tube to become conducting a selected number of times.

2,404,740
TREATMENT OF ORGANIC SOLUTIONS OF FORMALDEHYDE-UREA REACTION PRODUCTS
John A. Murray and George H. Metzger, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
No Drawing. Application September 28, 1940, Serial No. 358,935
3 Claims. (Cl. 260—29)

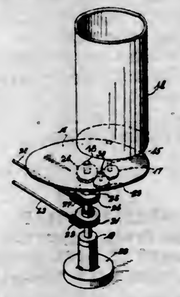
1. A method of increasing the viscosity of a butyl alcohol solution of a formaldehyde-urea reaction product without decreasing its compatibility with hydrocarbons that comprises maintaining the ratio of formaldehyde-urea reaction product to butyl alcohol high enough, in an alcoholic solution in which the alcoholic solvent consists substantially of a butyl alcohol in a proportion sufficient to hold the formaldehyde-urea reaction product in solution, so that the solution contains not less than .3 part of nitrogen derived from urea for every two parts of butyl alcohol and formaldehyde-urea reaction product, while the solution is in an acid and substantially anhydrous condition, until a substantial increase in viscosity has taken place.

2,404,741
BOTTLE CLOSURE
Friedrich Ottenstein, Copenhagen, Denmark; vested in the Alien Property Custodian
Application March 27, 1942, Serial No. 436,532
In Denmark March 27, 1941
5 Claims. (Cl. 215—40)



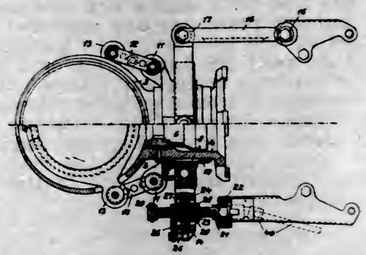
1. In a crown type bottle closure, a skirted cap, a sealing disk engaging the undersurface of the top of the cap, said disk comprising two circular plates of unfilled pulpboard, one of the plates being corrugated on the side thereof facing the top of the cap and being plane on its opposite side, and the plates being cemented together over a limited centralized area whereby the edge portions of at least one of the disks is left free to flex relative to edge portions of the other disk.

2,404,742
MANUFACTURE OF LARGE PERMEABLE PACKAGES OF RAYON
James J. Polak and Arthur L. Jackson, West Asheville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application October 23, 1942, Serial No. 463,126
6 Claims. (Cl. 57—66)



1. An apparatus for winding freshly spun viscose thread comprising a plate mounted for rotation about a pivot point, a cylindrical container mounted upon said plate at a point spaced from said pivot point for rotation upon its own axis, and two separate and independent means for rotating said plate and said container at different speeds.

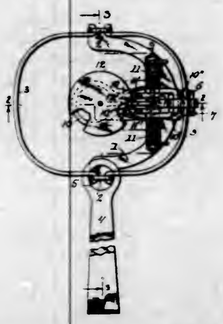
2,404,743
DEVICE FOR ADJUSTING THE PITCH OF AIR PROPELLERS
Robert Prause, Augsburg, Germany; vested in the Alien Property Custodian
Application October 22, 1940, Serial No. 362,279
In Germany June 10, 1938
1 Claim. (Cl. 170—163)



In an adjustable pitch propeller for aircraft, the combination of a propeller hub; propeller blades mounted in said hub to be adjustably rotated about their longitudinal axes; a propeller shaft on which said hub is rigidly mounted; a sleeve mounted coaxially and slidably on said shaft; means operatively connecting said sleeve with said blades and adapted to rotate said blades upon axial movement of said sleeve; a fixed bracket; a link pivoted at one end on a horizontal pivot pin in said bracket, and having a fork at its other end; a traverse ring disposed about said shaft; a ball-bearing having its outer race

pivoted in said traverse ring for movement about an axis transverse to the axis of the shaft, and its inner ring fixed about said sleeve; a boss on said ring; a self-adjusting ball bearing in said boss; a trunnion in the fork of the link, on which said ball bearing is mounted, the link and ring being so connected by the ball bearing that the ring is capable of movement about two axes perpendicular to the axis of the link; a second fixed bracket; a second self-adjusting ball bearing mounted in said second fixed bracket; a rotatable, threaded spindle journaled in said second ball bearing; means for rotating said spindle; a nut threaded on said spindle; and a third self-adjusting ball-bearing mounted in said traverse ring diametrically opposite to the said boss and in which said nut is carried, the spindle and traverse ring being so related that when the spindle is rotated the traverse ring is moved about one of the axes perpendicular to the axis of the link, to slide said sleeve axially of the propeller shaft, cause the link to pivot about the first fixed bracket, and cause the spindle to pivot about the second fixed bracket.

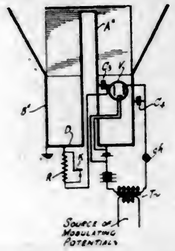
2,404,744
ANIMAL TRAP
William Prott, Poynette, Wis.
Application March 22, 1945, Serial No. 584,142
1 Claim. (Cl. 43—88)



In an animal trap having a skeleton base, jaws pivotally mounted thereon, a spring carried by the base for engaging and swinging the jaws, a centrally positioned pad, a pivoted locking trigger for the jaws carried by the base for engaging the pad; the combination of a lifting means for the trap, comprising a pivot rod carried by the base, a ground gripping yoke having legs pivoted upon the rod, a foot extending rearwardly from the legs, and coil springs carried by the rod, having ends engaging the yoke legs, said pivoted trigger engaging one of the jaws, yoke foot and pad.

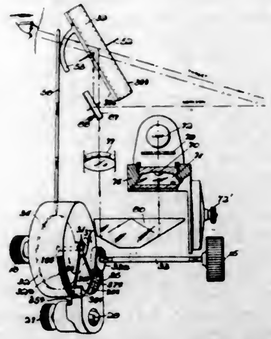
2,404,745
ULTRA HIGH FREQUENCY ELECTRON DISCHARGE DEVICE SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 7, 1942, Serial No. 450,006
6 Claims. (Cl. 250—17)

1. An ultra short wave system comprising a multi-electrode electron discharge device including grid and plate electrodes, a single multi-element electrical resonant structure whose dimensions around said structure along the path of oscillatory current flow therein are such as to produce a desired oscillation frequency, the spacing between said elements being adjusted to give a desired coupling to the ether to thereby cause said structure to act as an antenna, leads regeneratively coupling said electron discharge device to said resonant structure, and means for supplying suitable bias and operating potentials to the elec-



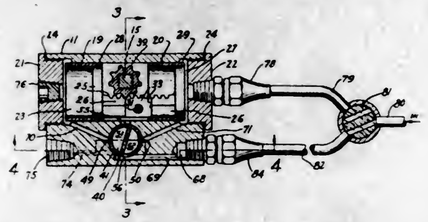
trodes of said device to generate and radiate oscillations or regeneratively receive and detect oscillations, said resonant structure comprising two metallic rods connected together at one end and connected at the other end to the grid and plate electrodes of said electron discharge device, said metallic rods being spaced further apart at their centers than at their ends.

2,404,746
HAND HELD LOW ALTITUDE BOMB SIGHT
Gregory V. Rylsky, Ridgefield Park, and Frederick W. Schule, Jr., Hackensack, N. J., assignors to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application May 10, 1943, Serial No. 486,376
9 Claims. (Cl. 88—1)



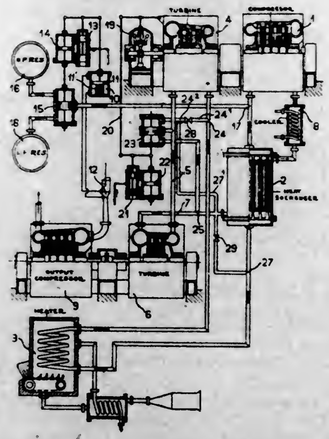
1. An impact predicting bombsight comprising, a collimating optical system including a variable source of illumination, a bubble level forming a part of said optical system, a tiltable viewing plate for reflecting the collimated image of said bubble level, the apparent bubble image as seen in the viewing plate indicating the point of bomb impact on the target, a ground speed scale and an indicator associated therewith viewable conjointly with the bubble level, a mechanism to tilt said viewing plate, said mechanism having a barometric pressure member to move the indicator in accordance with the altitude as represented by the barometric pressure and independent means for setting the indicator in accordance with the ground speed; the tilt applied to said viewing plate by said mechanism projecting the apparent bubble image at an angle with the horizontal to indicate the point of bomb impact.

2,404,747
FLUID OPERATED MOTOR
Columbus R. Sacchini, Euclid, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application January 10, 1944, Serial No. 517,634
1 Claim. (Cl. 121—164)



In a hydraulic motor, a reciprocating piston, a reversible valve system operated through a snap action mechanism by the piston, a supply line for fluid, a valve arranged to divert the supplied fluid into one of two paths selectively, and conduit means constituting said paths and leading, respectively, from the valve to said valve system and directly to the piston working space, said valve system including means for exhausting fluid from the piston working space so long as fluid is supplied directly to said working space but through a relatively restricted passage, whereby the piston is kinetically held at one end of its stroke.

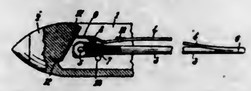
2,404,748
THERMAL POWER PLANT
Fritz Salzmann, Zurich, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland
Application June 12, 1943, Serial No. 490,663
In Switzerland June 26, 1942
14 Claims. (Cl. 60—59)



2. Method for the regulation of the output of a thermal power plant, in which at least the greater part of a gaseous working medium describes a cycle, is raised in at least one compressor to a higher pressure, then heated by a supply of heat from an external source and afterwards expanded in at least one turbine driving said cycle compressor and further in at least one turbine driving a consumer of useful output, said turbines being traversed in series by the working medium describing the cycle and operating at speeds which are independent from one another, consisting in regulating changes in output of the turbine driving the consumer of useful energy by varying the density of the working medium describing the cycle substantially proportionally to such changes, and in preventing a surpassing of the pressure head dealt with in said turbine driving the cycle compressor when equilibrium exists between the output produced and that consumed, by releasing a current of working medium which by-passes stages of this turbine.

8. Thermal power plant, in which a gaseous working medium, preferably air, describes a cycle, comprising at least one compressor in which the working medium is raised to a higher pressure, an external source of heat in which heat is supplied to the working medium, at least one turbine in which heated medium is expanded and which drives said cycle compressor, at least one further turbine in which working medium is also expanded and which drives a consumer of useful output, said turbines operating at speeds which are independent from one another, means influenced in dependency on the output of the turbine driving the consumer of useful output for supplying working medium to the cycle on an increase of said output occurring and for withdrawing working medium from the cycle on a falling off of said output occurring, and means which permit limiting of temporary deviations in the pressure head dealt with in the turbine driving the cycle compressor from the head dealt with in this turbine when stable working conditions exist.

2,404,749
WEAVER'S SHUTTLE
Rudolf Schmidt, Passeck-on-the-Iser, Germany; vested in the Alien Property Custodian
Application October 15, 1941, Serial No. 415,025
In Germany June 5, 1940
3 Claims. (Cl. 139—210)

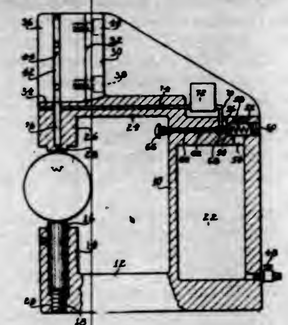


1. In a loom shuttle having a hollow space therein, a peg arm having one end thereof hinged to said shuttle within said space, a second peg arm secured to the free portion of said first arm and extending alongside the first arm in the direction of said hinge, a helical spring arranged between the peg arms in the vicinity of said hinge, a leaf spring extending substantially parallel to and having one end thereof secured upon said hinged peg arm, a second helical spring arranged between the hinged peg arm and the free end of said leaf spring, and a gliding surface cooperating with the free end of said second peg arm through the medium of said leaf spring, said gliding surface being inclined relative to the longitudinal axis of the leaf spring and adapted to hold said peg arms in lowered position within said hollow space.

2,404,750
GAUGE
William D. Schmidt, Worcester, Mass.
Application August 28, 1944, Serial No. 551,459
7 Claims. (Cl. 33—147)

1. A device for measuring a workpiece comprising a body member having means to support a workpiece, a chamber for compressed gas formed

in said body member, an orifice connected to said chamber, means to indicate variations in the



pressure of said gas flowing through said orifice, and means operable to introduce gas in said chamber to said orifice and said indicating means.

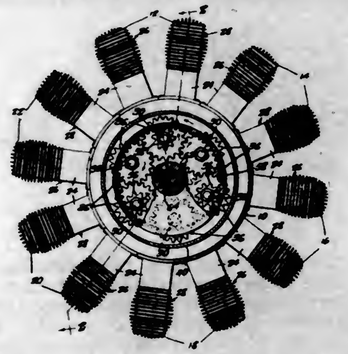
2,404,751
GAUGE
Edwin H. Schmitt, Cincinnati, Ohio
Application April 27, 1944, Serial No. 533,002
2 Claims. (Cl. 33—178)



2. A gauge for determining the diameter of a hole comprising in combination with a casing having a visible indicator for indicating movement of a plunger rod passing through said casing, a plunger rod, means for manually moving the plunger rod, a tubular member through which said rod extends, a conical shaped member mounted at an end of said rod, a gauge member mounted on said tubular member and comprising an annular base having arms extending sector like toward a common point, said arms having gauge tips arranged in position to have their inner surfaces engaged by the point of said conical member, a guide carried by said tubular member for limiting the depth to which said gauge tips may extend into a hole the diameter of which is being determined, and means for adjusting the position of said guide on said tubular member.

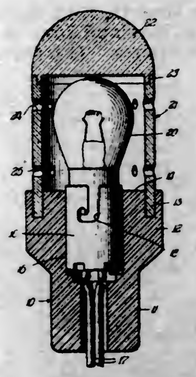
2,404,752
ENGINE
Kurt F. E. Schoenfeld, Stafford, Va., and Earl W. Fowler, Amherst, N. Y.
Application January 25, 1946, Serial No. 643,342
2 Claims. (Cl. 74—389)

1. Shaft drive gearing for an engine having a power take-off shaft and a plurality of crankshafts mounted parallel with and in circularly spaced relation about the axis of the power take-off shaft, comprising a gear fixed on each crankshaft, said gears being disposed in annular arrangement and in meshing engagement, a pinion fixed on alternate crankshafts, a drive gear fixed on said power take-off shaft in mesh with and driven by said pinions, a second power take-off shaft mounted in concentric relation with the



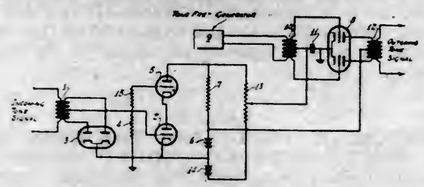
first mentioned power take-off shaft, a gear fixed on said second power take-off shaft, and drive pinions on those crankshafts carrying said first pinions disposed in mesh with the drive gear on said second power take-off shaft for driving the latter.

2,404,753
EMERGENCY LAMP
Eric Siemers, Kalamazoo, Mich., assignor, by mesne assignments, to Lacey-Webber Co., Kalamazoo, Mich., a corporation of Michigan
Application March 6, 1944, Serial No. 525,171
1 Claim. (Cl. 240—54)



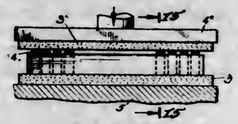
In an electric lamp of the portable type, in combination, a substantially cylindrical base portion of synthetic resin providing a handle and having a bore extending axially from end to end, an electric lamp socket releasably positioned within said bore at the end opposite the handle, an electric bulb releasably supported by the socket so as to project from this end of the base portion, a shield for said bulb including a cylindrical member of light-emitting material, said base portion having a cylindrical groove in the socket end thereof concentric with said bore for receiving one end of said cylindrical member, whereby the shield encloses the bulb and forms a protective housing therefor, and a cap for said cylindrical member in the form of a magnifying lens fixed to the open end of said member and closing said end.

2,404,754
TONE FREQUENCY SIGNAL REPEATER
William E. Simpson, South Ozone Park, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1942, Serial No. 444,991
9 Claims. (Cl. 178—66)



1. A gaseous triode discharge tube in combination with a device for controlling its periods of ionization, said device comprising a vacuum discharge tube having at least three electrodes of which the anode is connected to the cathode of said gaseous tube, the vacuum tube cathode having a circuit connection to the gaseous tube anode, said circuit connection including a direct current source and a load impedance, an input circuit impedance interconnecting a control grid in said vacuum tube with its cathode, an impedance interconnecting the control grids in the two said tubes, and a source of intermittent control potential which, when applied across said input circuit impedance, causes the vacuum tube to be blocked, thereby interrupting a normal discharge in said gaseous tube.

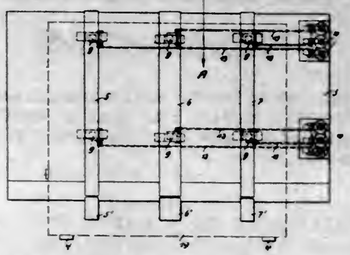
2,404,755
TEXTILE COMB-NEEDLE ASSEMBLY
John S. Smith, Ramsey, N. J., assignor to Botany Worsted Mills, Passaic, N. J., a corporation of New Jersey
Application January 5, 1945, Serial No. 571,474
1 Claim. (Cl. 163—8)



A method for quickly preparing needles for insertion into carding combs, used in textile mills which consists in the step of placing the needles in cavities of a needle assembly block, the cavities being closed at their base by a needle penetrable member, the step of placing over the projecting needles in this block a second needle penetrable member and the step of applying pressure upon needle members sufficient to cause the needle points to penetrate same penetrable members a distance sufficient to support the needles by the latter, and enable free movement of said members with the needles carried thereby.

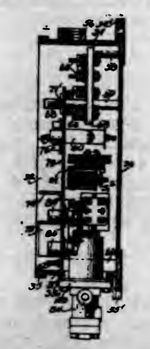
2,404,756
APPARATUS FOR CORRECTING DIFFERENCES IN REGISTER
Georg Spiess, Leipzig W. 31, Germany; vested in the Alien Property Custodian
Application January 8, 1942, Serial No. 426,025
In Germany February 5, 1941
2 Claims. (Cl. 271—59)

1. A device on the feeding table of printing machines for removing differences of register resulting from the alteration of the paper by physical influences such as moisture and temperature, comprising in combination with the feeding table, several bars of sheet metal arranged in the conveying direction in said feeding table in parallelly spaced positions two rams for each bar arranged



below said feeding table and hinged to the bar, each of said rams having a recess, shiftable means extending into said recesses for moving the rams and adjusting the bars vertically.

2,404,757
INSTRUMENT BOX
James H. Starr, La Grange, and Edward A. Goodnow, Glenview, Ill., assignors to Electro-Chemical Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application June 6, 1942, Serial No. 446,144
5 Claims. (Cl. 177—311)



1. An instrument box for an automatic electrode-actuated foam control system which comprises a housing, a binding post panel fixedly mounted in said housing, binding posts on said panel adapted to be placed in electrical connection with the electrodes of the system and with a source of electrical current, conductor links adapted to connect various of said binding posts in accordance with the particular foam control system with which the box is used, a removable panel, electrical system controlled units mounted on said removable panel, and shiftable conductor links on said removable panel for varying the connections between the electrical control units in accordance with the particular foam control system.

2,404,758
LAMINATED POROUS ELASTIC FABRIC
Merwyn C. Teague, Ridgewood, N. J., and Paul L. Mahoney, Jackson Heights, N. Y., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 10, 1940, Serial No. 369,477
3 Claims. (Cl. 154—48)

1. An elastic fabric comprising a layer of rubber having pores extending therethrough, a layer

of fabric elastically bonded to said layer of rubber, said fabric having threads extending in at least one direction which are normally retained in a relaxed condition by said layer of rubber,



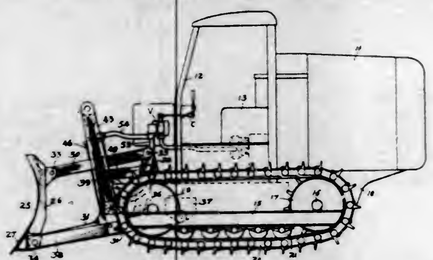
and said fabric having continuous portions thereof extending across, into, and at least partially filling substantially all of said pores in said rubber layer.

2,404,759

BULLDOZER OR SCRAPER STRUCTURE

Harry H. Washbond, Springfield, Ill., assignor to The Baker Manufacturing Company, Springfield, Ill., a corporation of Illinois

Application February 22, 1944, Serial No. 523,464
17 Claims. (Cl. 37—144)



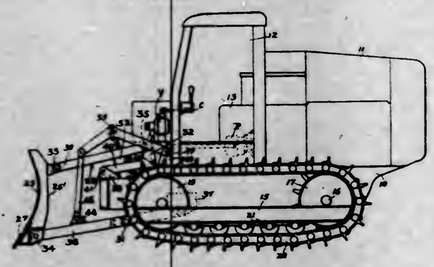
12. In combination with a vehicle, push beams pivoted on the vehicle, an implement blade pivoted on said push beams, means for raising and lowering said blade, a link connected to the blade, a fulcrum for said link, and means responsive to raising and lowering of the blade for shifting said fulcrum relative to the push beams to control the rake of the blade.

2,404,760

BULLDOZER OR SCRAPER STRUCTURE

Harry H. Washbond, Springfield, Ill., assignor to The Baker Manufacturing Company, Springfield, Ill., a corporation of Illinois

Application February 22, 1944, Serial No. 523,465
10 Claims. (Cl. 37—144)



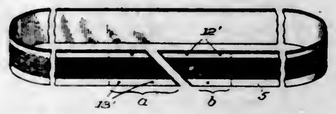
6. In combination a tractor, push beams pivoted on the tractor extending forwardly therefrom, an implement blade extending across the front end of the tractor having its lower portion pivoted on the push beams, first links pivotally connected to the upper portion of the blade and extending rearwardly therefrom toward the tractor, second links pivoted to the rear ends of the first links and to the push beams, first arms pivoted on the push beams and extending upwardly therefrom, second arms pivoted on the first arms and extending rearwardly therefrom, pivots connecting the rear ends of the second arms to the tractor, a hydraulic jack interposed between the tractor and the second arms for raising and lowering the push beams and blade relative to the tractor, and means connecting the second links and tractor to hold the blade in the same vertical plane as it is raised and lowered throughout its tilting range and to tilt the upper end of the blade forwardly as the blade is raised above its tilting range.

2,404,761

METHOD OF PRODUCING BRIDGING MATRIX FOR ENDLESS SOUND BANDS

Hugo Westerkamp, Koln-Poll, Germany; vested in the Alien Property Custodian

Application October 29, 1941, Serial No. 417,027
In Germany July 8, 1940
3 Claims. (Cl. 18—48.3)



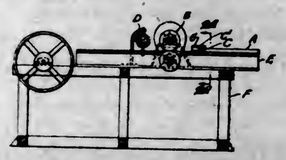
1. A method of producing endless sound bands having a number of mechanically reproducible sound tracks running parallel to the edge of the band, which comprises preparing from an original sound record band having a number of mechanically reproducible sound tracks running parallel to the edge thereof, an open-ended matrix, preparing open-ended duplicate sound records from said matrix, preparing patrices corresponding to end portions of the matrix, aligning and uniting the end of said patrices corresponding to the open ends of the matrix and forming across the union continuous engraved record lines joining the record lines existing on the patrices, preparing a bridging matrix from the united and engraved patrices, and connecting the ends of the open-ended duplicate record by employing the bridging matrix to impress the point of connection whereby the sound tracks on the endless duplicate record are made continuous.

2,404,762

UTILIZING MAIZE CANE AND SORGHUM CANE

Adolfo Zajotti and Carlo Tellini, Venice, Carpenedo, Italy; vested in the Alien Property Custodian

Application September 24, 1940, Serial No. 358,094
In Italy October 7, 1939
3 Claims. (Cl. 146—164)



1. A device for producing contemporaneously cellulose fibres and a medulla forage from maize cane and sorghum cane, comprising guide means for the canes, fixed means for longitudinally slitting one side only of said canes, fixed means alined with said slitting means for engaging the opposite sidewalls of the slit to turn the medulla section of the canes upwards and the cellulose fibres downwards, means for pressing the opened canes and means for crushing and brushing off the medulla from the cellulose fibres.

2,404,763

FLAVORING MATERIALS FOR GELATINS

Kenneth M. Gaver, Columbus, Ohio, assignor, by mesne assignments, to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

No Drawing. Application August 1, 1940, Serial No. 349,299
1 Claim. (Cl. 99—140)

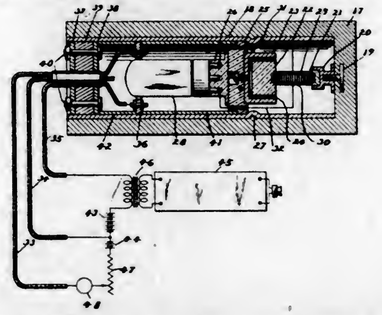
As an article of manufacture, a powdered flavoring material comprising a flavoring concentrate carried by a hydrophylic colloidally dispersible substantially tasteless cereal particle comprising rice dextrin adapted to gel and absorb substantially ten times its weight of water at room temperature on contact with moisture.

2,404,764

SOUND RECEIVER

Harvey C. Hayes, Washington, D. C.

Application December 16, 1931, Serial No. 581,382
3 Claims. (Cl. 177—386)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



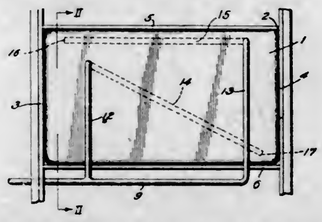
1. A submarine sound receiver including a cylindrical casing having a diaphragm at one end thereof and being open at the other, means engaging the inner wall of said casing near said one end and forming a chamber, a piezo-electric crystal between said diaphragm and said means and held by the latter to cause the diaphragm to cooperate with the crystal, means closing the open end of the casing and forming a second chamber for a vacuum tube, said receiver also including a conduit for the passage of an electrical connection between the crystal and vacuum tube.

2,404,765

SELF-LOCKING VENT SYSTEM

Peter H. Valentyne, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application June 12, 1945, Serial No. 598,954
10 Claims. (Cl. 244—135)



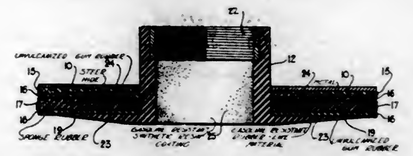
1. A self-locking vent system for an airplane wing storage tank to vent the tank for normal flight attitudes of the wing comprising a header pipe extending longitudinally of the wing along the top and at one side of said tank, a vent having its open end in the forward upper end of the tank on the side remote from the header pipe, said vent line extending rearwardly generally parallel to said header pipe and across the rear end of the tank to connect with said header, a second vent line having its open end in the upper rear corner of the tank on the side adjacent said header pipe, said vent line extending diagonally forwardly to the forward upper corner of the tank and then across the forward end of the tank to connect with said header.

2,404,766

FUEL TANK

Elmo E. Hanson, Akron, and Charles R. Park, Silver Lake Village, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application January 21, 1941, Serial No. 375,180
3 Claims. (Cl. 154—43.5)



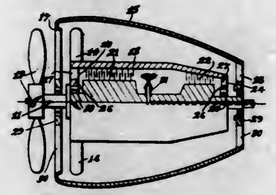
1. A cell for liquid fuel, the walls of said cell comprising an outer ply of steer-hide, a ply of unvulcanized rubber deposited from latex, a ply of fine-grained sponge rubber having non-communicating cells, a second ply of unvulcanized rubber deposited from latex, one inner ply of polymerized 2 chloro-1,3 butadiene, and a protective film of an acrylic resin on the exposed face of said inner ply, said plies being united to each other and arranged in the order set forth from the outside to the inside of each wall.

2,404,767

JET PROPULSION PLANT

Fritz Albert Max Heppner, Leamington Spa, England, assignor to Armstrong Siddeley Motors Limited, Coventry, England

Application April 28, 1943, Serial No. 484,917
In Great Britain October 28, 1941
2 Claims. (Cl. 60—35.6)



1. A jet-propulsion, internal-combustion turbine plant of the axial-flow type including a rotor, compressor and turbine blades carried thereby, a counter-rotating turbine shell radially outside of and enclosing said turbine blades, additional turbine blades carried by said shell internally, said shell having an outlet to provide a jet, external air-screw blades also carried by said shell, and a stationary casing enclosing said air-screw blades and having an outlet communicating with said first named outlet whereby the air dealt with by the air-screw blades joins the turbine exhaust to constitute the propulsion jet.

2,404,768

ALPHA-SUBSTITUTED SIDE-CHAIN KETONES OF THE CYCLOPENTANOPOLYHYDROPHENANTHRENE SERIES

Tadeus Reichstein, Basel, Switzerland

No Drawing. Original application February 5, 1943, Serial No. 474,892. Divided and this application July 26, 1945, Serial No. 607,269. In Switzerland October 5, 1942

5 Claims. (Cl. 260—397.4)

1. The compounds of the pregnane and pregnene series, containing at the carbon atom 3 a member of the group consisting of hydroxyl and a group convertible into hydroxyl by hydrolysis, as sole substituent in ring C at the carbon atom 12 a member of the group consisting of hydroxyl, a group convertible into hydroxyl by hydrolysis and a ketonic oxygen, at the carbon atom 20 a ketonic oxygen and at the carbon atom 21 a member of the group consisting of a hydroxyl and an esterified hydroxyl.

DESIGNS

JULY 23, 1946

145,243

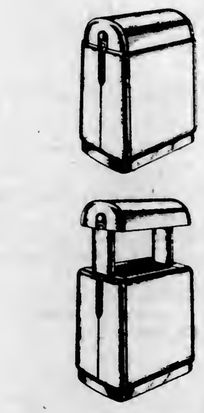
DESIGN FOR AN OIL ISLAND

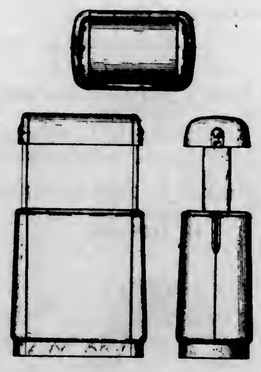
Francis Lawrence Ayres, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application September 28, 1945, Serial No. 122,383

Term of patent 14 years

(Cl. D52—2)





The ornamental design for an oil island, as shown.

145,244

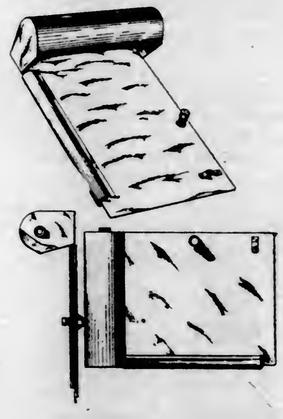
DESIGN FOR AN ILLUMINATING SUPPORT FOR HAND-HELD LECTURE PAPERS OR SIMILAR ARTICLE

Jean De Jen, Fairfield, Conn.

Application January 28, 1946, Serial No. 126,039

Term of patent 7 years

(Cl. D74—1)



The ornamental design for an illuminating support for hand-held lecture papers or similar article, substantially as shown.

145,245

DESIGN FOR A COMBINATION JIGGER AND BOTTLE OPENER

John G. de Lemos, Palo Alto, Calif.

Application September 11, 1945, Serial No. 122,009

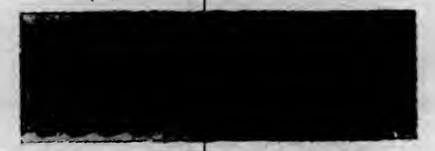
Term of patent 14 years

(Cl. D44—29)



The ornamental design for a combination jigger and bottle opener, substantially as shown and described.

145,246
DESIGN FOR A NARROW WOVEN FABRIC
Abe Gelb, New York, N. Y.
Application April 27, 1946, Serial No. 129,025
Term of patent 3½ years
(Cl. D3—32)



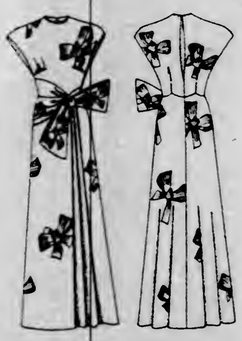
The ornament design for a narrow woven fabric, substantially as shown.

145,247
DESIGN FOR A DRESS
Bernard Hurwitz, New York, N. Y.
Application February 26, 1946, Serial No. 126,925
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,248
DESIGN FOR A DRESS
Bernard Hurwitz, New York, N. Y.
Application February 26, 1946, Serial No. 126,926
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,249
DESIGN FOR A DRESS
Bernard Hurwitz, New York, N. Y.
Application February 26, 1946, Serial No. 126,927
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,250
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 16, 1946, Serial No. 125,600
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,251
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 16, 1946, Serial No. 125,601
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,252
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 16, 1946, Serial No. 125,602
Term of patent 7 years
(Cl. D45—19)



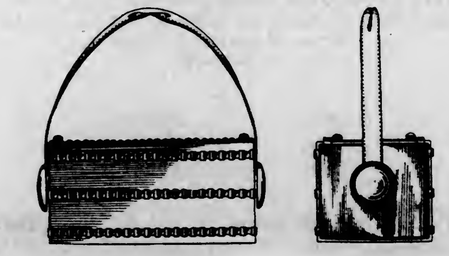
The ornamental design for a brooch or similar article, substantially as shown.

145,253
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 24, 1946, Serial No. 125,906
Term of patent 7 years
(Cl. D45—19)

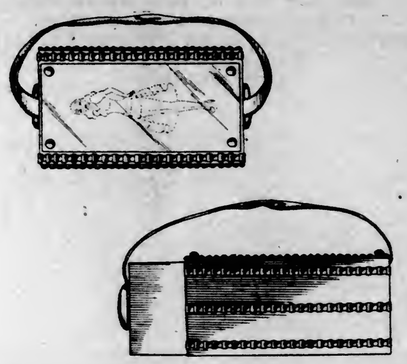


The ornamental design for a brooch or similar article, substantially as shown.

145,254
DESIGN FOR A HANDBAG
Louis Kaufman, New York, N. Y.
Application March 16, 1946, Serial No. 127,588
Term of patent 3½ years
(Cl. D87—3)

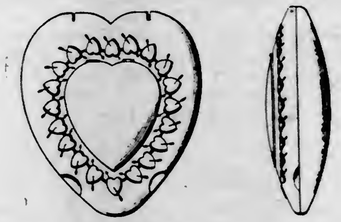


145,254—Continued



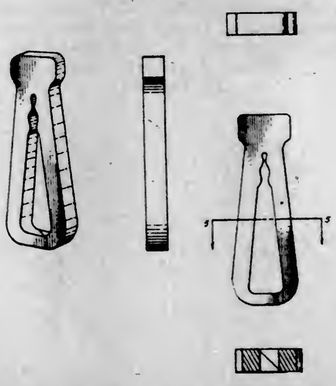
The ornamental design for a handbag, substantially as shown and described.

145,255
DESIGN FOR A COMPACT
Nathan K. Morris, Asbury Park, N. J.
Application March 5, 1945, Serial No. 118,274
Term of patent 3½ years
(Cl. D86—10)



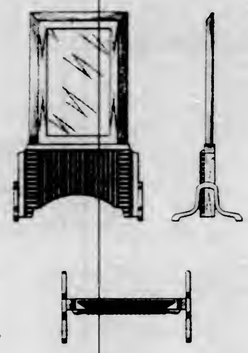
The ornamental design for a compact, as shown.

145,256
DESIGN FOR A CLOTHESLINE CLAMP
Richard L. Odiorne, Yellow Springs, and John S. Monroe, Springfield, Ohio
Application November 7, 1945, Serial No. 123,947
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothes line clamp, as shown.

145,257
DESIGN FOR A PICTURE FRAME
Edward Olszewski, Detroit, Mich.
Application December 13, 1945, Serial No. 124,709
Term of patent 7 years
(Cl. D29—20)



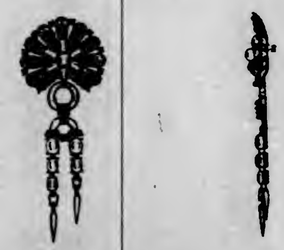
The ornamental design for a picture frame, as shown.

145,258
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,881
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,259
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,882
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,260
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,883
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,261
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,884
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,262
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,888
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

145,263
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,891
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

145,264
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,892
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

145,265
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,894
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

145,266
DESIGN FOR A PIN CLIP OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,895
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin clip or similar article, substantially as shown.

145,267
DESIGN FOR A PIN CLIP OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,896
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin clip or similar article, substantially as shown.

145,268
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,898
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,269
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,899
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,270
DESIGN FOR A PIN CLIP OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,900
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin clip or similar article, substantially as shown.

145,271
DESIGN FOR A PIN CLIP OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,901
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin clip or similar article, substantially as shown.

145,272
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,902
Term of patent 7 years
(Cl. D45—19)



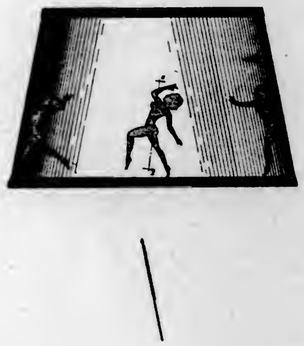
The ornamental design for a brooch or similar article, substantially as shown.

145,273
DESIGN FOR A PIN CLIP OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,905
Term of patent 7 years
(Cl. D45—19)



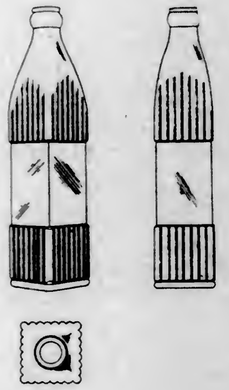
The ornamental design for a pin clip or similar article, substantially as shown.

145,274
DESIGN FOR A LAMP SHADE WITH LUMINOUS FIGURES
James Ross, Hubbard Woods, Ill.
Application January 11, 1945, Serial No. 117,378
Term of patent 3½ years
(Cl. D48—16)



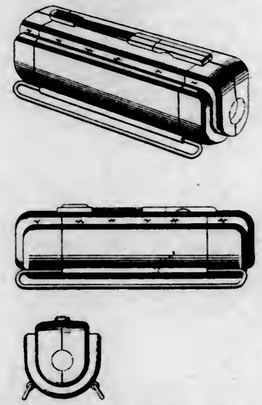
The ornamental design for a lamp shade with luminous figures, substantially as shown and described.

145,275
DESIGN FOR A BOTTLE
Myron E. Scott, Dayton, Ohio
Application September 30, 1944, Serial No. 115,533
Term of patent 3½ years
(Cl. D58—6)



The ornamental design for a bottle, as shown.

145,276
DESIGN FOR A VACUUM CLEANER CASING
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Modern Hygiene, Inc., Boston, Mass., a corporation of Massachusetts
Application December 22, 1945, Serial No. 125,009
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a vacuum cleaner casing, as shown and described.

145,277
DESIGN FOR A CLEARANCE LAMP
Wagn Trautner, Onondaga County, N. Y.
Application September 17, 1945, Serial No. 122,134
Term of patent 14 years
(Cl. D48—32)



The ornamental design for a clearance lamp, substantially as shown.

145,278
DESIGN FOR A SIDE MARKER LAMP
Wagn Trautner, Onondaga County, N. Y.
Application September 18, 1945, Serial No. 122,164
Term of patent 14 years
(Cl. D48—32)



The ornamental design for a side marker lamp, substantially as shown.

145,279
DESIGN FOR A CORNER MARKER LIGHT
Wagn Trautner, Onondaga County, N. Y.
Application September 19, 1945, Serial No. 122,177
Term of patent 14 years
(Cl. D48—32)



The ornamental design for a corner marker light, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adel Precision Products Corp., Burbank, Calif. Medico-surgical cameras, parts thereof and accessories therefor. Serial No. 494,418; July 23. Class 26.

Aircraft Machinery Corporation, Burbank, Calif. Metal working machinery and parts thereof. Serial No. 482,191; July 23. Class 23.

Airpak Limited, London, England. Quilting in the piece. Serial No. 468,334; July 23. Class 42.

Allied Foods, Los Angeles, Calif. Weiners and sauerkraut, barbecue spareribs and sauerkraut, etc. Serial No. 490,350; July 23. Class 46.

American Chain & Cable Company, Inc., New York, N. Y., and Bridgeport, Conn. Lawn mowers. Serial No. 482,962; July 23. Class 23.

American Chain & Cable Company, Inc., New York, N. Y., and Bridgeport, Conn. Lawn mowers. Serial No. 482,965; July 23. Class 23.

American Safety Razor Corporation, Brooklyn, N. Y. Razor blades. Serial No. 495,783; July 23. Class 23.

American Spectacle Co., Inc., New York, N. Y. Sunglasses. Serial Nos. 495,004–5; July 23. Class 26.

Asher & Boretz, Inc., New York, N. Y. Woven cotton fabrics. Serial No. 485,854; July 23. Class 42.

Automatic Pump & Softener Corporation, Rockford, Ill. Electric ozone generators and apparatus. Serial No. 487,758; July 23. Class 21.

Avon-Fascination Company, New York, N. Y. Magazine published periodically. Serial No. 496,065; July 23. Class 38.

B-1 Setzler Soda Water Company, Kansas City, Mo. Non-alcoholic, noncereal, maltless beverages. Serial No. 487,818; July 23. Class 45.

Bantam Books, Inc., New York, N. Y. Printed books. Serial No. 496,599; July 23. Class 38.

Bar-K Products Company, Oakland, Calif. Wall towel rack. Serial No. 465,335; July 23. Class 13.

Bartmann & Bixer, Inc., New York, N. Y. Window curtains. Serial Nos. 496,123–4; July 23. Class 42.

Bee-Bee Frocks, Inc., Kansas City, Mo. Children's garments in the nature of pinafores, dresses, and sun suits. Serial No. 495,128; July 23. Class 39.

Bird & Son, inc., East Walpole, Mass. Pots, boxes, and open-topped containers. Serial No. 464,986; July 23. Class 2.

Bird & Son, inc., East Walpole, Mass. Seed, flower, fruit, and plant pots. Serial Nos. 469,185–6; July 23. Class 2.

Blackhawk Mfg. Co., Milwaukee, Wis. Socket wrenches, box wrenches, open-end wrenches, etc. Serial No. 482,457; July 23. Class 23.

Blum, C., doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Norwood, Ohio. Auxiliary closures. Serial No. 490,523; July 23. Class 31.

Bol, Ltd., New York, N. Y. Fountain pens and fillers. Serial No. 489,646; July 23. Class 37.

Borgenicht & Belz, Chicago, Ill. Skirts, blouses, slacks, etc. Serial No. 494,207; July 23. Class 39.

Brach, E. J., & Sons, Chicago, Ill. Candy. Serial No. 487,165; July 23. Class 46.

Brite Star Associates, Inc., New York, N. Y. Baby and hand lotion, pine bubble bath, cologne, toilet water, etc. Serial No. 497,842; July 23. Class 6.

Brooks Bank Note Company, Springfield, Mass. Cardboard, boxboard, and printing paper. Serial No. 481,833; July 23. Class 37.

Brown, Boveri & Cie, Baden, Switzerland. High vacuum electronic tubes. Serial Nos. 494,209–10; July 23. Class 21.

Buckeye Laboratories Corporation, Cleveland, Ohio. Unitary apparatus. Serial No. 476,658; July 23. Class 23.

California Manufacturing Company, St. Louis, Mo. Sportswear. Serial No. 483,958; July 23. Class 39.

Canoga Citrus Association, Canoga Park, Calif. Fresh citrus fruits. Serial No. 489,561; July 23. Class 46.

Care Laboratories, Incorporated, Charlotte, N. C. Synthetic detergent cleaner. Serial Nos. 498,112–13; July 23. Class 4.

Carpenter, L. E., & Co., Inc., Newark, N. J. Resinous coated fabrics. Serial No. 493,164; July 23. Class 50.

Chase Industrial Refrigerator Equipment & Engineering Co.: *See*—
Blum, C.

Chasse, Maurice, doing business under the style of Gelex Products Co., Montreal, Quebec, Canada. Liquid compound for dissolving ice in automobile gasoline tanks and carburettors. Serial No. 497,015; July 23. Class 6.

Climalene Company, The, Canton, Ohio. Chemical compounds for washing and cleaning. Serial No. 500,285; July 23. Class 4.

Comptone Company, New York, N. Y. Sunglasses, eyeglasses, spectacles, etc. Serial Nos. 494,783–5; July 23. Class 26.

Concordade Company, Inc., Providence, R. I. Nonalcoholic, nopcereal, maltless beverages. Serial No. 492,762; July 23. Class 45.

Consolidated Cigar Corporation, New York, N. Y. Cigars. Serial No. 487,993; July 23. Class 17.

Consolidated Cosmetics, Chicago, Ill. Lipstick, perfume, brilliantine, etc. Serial No. 494,657; July 23. Class 6.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 493,744; July 23. Class 6.

De Lap, Dorothy: *See*—
De Lap, Fred and D.

De Lap, Fred C. and D., Sacramento, Calif. Preparation for removing blood stains from fabrics. Serial No. 490,418; July 23. Class 4.

Distribution and Warehousing Publications Inc., New York, N. Y. Trade magazine. Serial No. 485,076; July 23. Class 38.

Duplex Fabrics Corporation, New York, N. Y. Rayon piece goods. Serial No. 495,220; July 23. Class 42.

Du-Rite Products Company, Inc., Brentwood, Md. Cleansing preparation, soluble in water. Serial No. 496,436; July 23. Class 4.

E & L Fruit & Produce Distributors, Los Angeles, Calif. Fresh vegetables, fresh citrous fruits, and fresh deciduous fruits. Serial No. 486,568; July 23. Class 46.

Eastman Kodak Company, The, Flemington, N. H., and Rochester, N. Y. Photographic cameras. Serial No. 496,304; July 23. Class 26.

Economy Freezer Supply Company: *See*—
Penachio, Chas.

El Paraiso de Purua, Fuentes Termales, S. A., Mexico City, Mex. Toilet soap. Serial No. 494,431; July 23. Class 4.

Erco Radio Laboratories, Inc., Hempstead, N. Y. Radio equipment. Serial No. 480,283; July 23. Class 21.

Fleming, Ellen P., New York, N. Y. Magazine column published from time to time. Serial No. 496,023; July 23. Class 38.

Fuller Manufacturing Co., Kalamazoo, Mich. Combination hydraulic torque converters and fluid couplings. Serial No. 478,811; July 23. Class 23.

Gandolfo, Juan C., Buenos Aires, Argentina. Writing inks. Serial No. 494,320; July 23. Class 11.

Gelex Products Co.: *See*—
Chasse, Maurice.

General Engineering Co.: *See*—
Weggel, Erwin J.

General Fireproofing Co., The, Youngstown, Ohio. Filing cabinets. Serial No. 498,059; July 23. Class 32.

Gooch Food Products Company, Lincoln, Nebr. Popcorn in its natural state. Serial No. 494,182; July 23. Class 46.

Great Lakes Coal & Dock Co., St. Paul, Minn. Fuel, namely, coal. Serial No. 483,687; July 23. Class 1.

Heckethorn Manufacturing & Supply Co., Littleton, Colo. Lawn sprinklers. Serial Nos. 496,381–3; July 23. Class 13.

Holleran Metal Products: *See*—
O'Halloran, Edward P.

Infanta Knitting Mills, Philadelphia, Pa. Children's knitted sweaters and jackets. Serial No. 495,478; July 23. Class 39.

Irvington Varnish & Insulator Co., Irvington, N. J. Yellow varnished cambric tape. Serial No. 493,193; July 23. Class 21.

Jodkins, Inc., New York, N. Y. Children's jodhpurs, jackets, vests, etc. Serial No. 496,967; July 23. Class 39.

Kalieta Manufacturing Co.: *See*—
Kalieta, Walter.

Kalieta, Walter, doing business as Kalieta Manufacturing Co., New Brunswick, N. J. Liniment. Serial No. 494,974; July 23. Class 6.

Kangaroo, Columbus, Ohio. Serving trays, juvenile or child's furniture. Serial No. 478,128; July 23. Class 32.

Keever Starch Company, The, Columbus, Ohio. Wheat paste. Serial No. 497,719; July 23. Class 5.

Kellogg Switchboard and Supply Company, Chicago, Ill. Extensible electrical cords. Serial No. 496,313; July 23. Class 21.

Kellogg Switchboard and Supply Company, Chicago, Ill. Extensible electrical cords. Serial No. 496,316; July 23. Class 21.

Kelly, William, Milling Co., The, Hutchinson, Kans. Wheat flour. Serial No. 498,527; July 23. Class 46.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Submersion actuators. Serial No. 485,291; July 23. Class 26.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Porosity filters and strainers. Serial No. 485,293; July 23. Class 31.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Fixed fire detecting and extinguishing apparatus. Serial No. 485,298; July 23. Class 23.

Kresno-Stamm Mfg. Co.: *See*—
Stamm, B. I. J.

Legget, Francis H., & Company, New York, N. Y. Sauce for meat products. Serial No. 489,876; July 23. Class 46.

Lincoln Fabrics Co., New York, N. Y. Rayon piece goods. Serial No. 489,519; July 23. Class 42.
Marshall-Wells Company, Duluth, Minn. Coal stokers. Serial No. 482,432; July 23. Class 34.
Martineau & Burke Leather Corp., Boston, Mass. Leather. Serial No. 491,579; July 23. Class 1.
Mason, Sally, New York, N. Y. Children's and misses' blouses, dresses, jumpers, etc. Serial No. 497,553; July 23. Class 39.
McDonald, E. E., and F. M. Ziegler, Lynwood, Calif. Lumber. Serial No. 491,347; July 23. Class 12.
McDonald, Herman M., Chicago, Ill. Underwear and sweaters. Serial No. 496,094; July 23. Class 39.
Meadtex Fabrics Co., New York, N. Y. Ladies', misses' and girls' dresses, aprons, slips, etc. Serial No. 492,934; July 23. Class 39.
Monarch Leather Company, Chicago, Ill. Leather. Serial No. 478,137; July 23. Class 1.
National Aluminum Manufacturing Co., Peoria, Ill. Aluminumware cooking utensils. Serial No. 490,130; July 23. Class 13.
National Lead Company, New York, N. Y. Journal bearings. Serial No. 489,139; July 23. Class 23.
National Trading Company, Inc., Hickory, N. C. Radio receiving sets. Serial No. 487,565; July 23. Class 21.
New York Merchandise Co., Inc., New York, N. Y. Empty compacts. Serial No. 486,431; July 23. Class 2.
O'Halloran, Edward P., doing business as Holleran Metal Products, Detroit, Mich. Dishwashing machines. Serial No. 485,791; July 23. Class 23.
Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Semi-liquid roof coating products, etc. Serial No. 490,031; July 23. Class 12.
Paquin, Limited, London, England. Perfume, toilet water, skin lotion, etc. Serial No. 496,148; July 23. Class 6.
Passaic Analytical Laboratories, Inc., Passaic, N. J. Solutions to be used for cleaning the surfaces of articles. Serial No. 489,411; July 23. Class 4.
Penachio, Chas., doing business as Economy Freezer Supply Company, Cos Cob, Conn. Electrical appliances. Serial No. 494,114; July 23. Class 31.
Phillips Petroleum Company, Bartlesville, Okla. Gasket cement. Serial No. 468,723; July 23. Class 5.
Phillips Petroleum Company, Bartlesville, Okla. Glass and metal cleaner, tire coating or dressing, pre-wax cleaner, etc. Serial No. 468,724; July 23. Class 4.
Phillips Petroleum Company, Bartlesville, Okla. Sunglasses. Serial No. 468,726; July 23. Class 26.
Phillips Petroleum Company, Bartlesville, Okla. Battery cables, flashlights, automobile fuses, etc. Serial No. 468,730; July 23. Class 21.
Phillips Petroleum Company, Bartlesville, Okla. Oil filter cartridges. Serial No. 468,734; July 23. Class 31.
Precision Parts Company, Ann Arbor, Mich. Baling presses. Serial No. 495,152; July 23. Class 23.
Princess Peggy, Inc., Peoria, Ill. Ready-to-wear cotton dresses. Serial No. 495,501; July 23. Class 39.
Products Incorporated, Los Angeles, Calif. Liniment. Serial No. 472,533; July 23. Class 6.
Protective Coatings Corporation, Belleville, N. J. Water impervious textile fabrics. Serial No. 484,801; July 23. Class 42.
Punctuation Perfumes, Inc., Bridgeport, Conn. Perfumes. Serial No. 496,042; July 23. Class 6.
Punctuation Perfumes, Inc., Bridgeport, Conn. Perfumes. Serial No. 496,044; July 23. Class 6.
Punctuation Perfumes, Inc., Bridgeport, Conn. Perfumes. Serial Nos. 496,046–8; July 23. Class 6.
Pyramid Electric Company, Jersey City, N. J. Electrical capacitors. Serial No. 491,773; July 23. Class 21.
Quaker Chemical Products Corporation, Conshohocken, Pa. Organic wetting agents. Serial No. 497,269; July 23. Class 6.
Quaker Maid Mills, Philadelphia, Pa. Knitted rugs. Serial No. 492,395; July 23. Class 42.
Radio Chef, Inc., Chicago, Ill. Electric high frequency induction vending machine. Serial No. 494,121; July 23. Class 23.
Reliable Paper Company, Chicago, Ill. Photo masking paper. Serial No. 491,588; July 23. Class 37.
Rhodes Plastic Products, Inc., New York, N. Y. Garment hangers. Serial No. 485,421; July 23. Class 50.
Rouyer Guilliet & Company Limited, London, England. Brandy. Serial No. 494,203; July 23. Class 49.
Schwarz, Max, New York, N. Y. Cotton piece goods. Serial No. 483,387; July 23. Class 42.
Seaglow Fabrics Corp., New York, N. Y. Cotton and rayon fabrics in the piece. Serial No. 487,806; July 23. Class 42.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical products. Serial No. 494,714; July 23. Class 6.
Silex Company, The, Hartford, Conn. Electric pressing irons and electric combination steaming and pressing irons. Serial No. 496,169; July 23. Class 21.
Smalley Products Co.: *See*—
Smalley, Theodore L.
Smalley, Theodore L., doing business as Smalley Products Co., New London, Conn. Storm screen windows and doors. Serial No. 496,581; July 23. Class 12.
Sobal Publishing Co. Inc., The, New York, N. Y. Magazines. Serial No. 495,838; July 23. Class 38.
Sowa, Andrew P., Waterbury, Conn. Pyrophoric cigar and cigarette lighters. Serial No. 495,518; July 23. Class 34.
Special Products Company, Silver Spring, Md. Electrical condensers and microphone stands. Serial No. 494,465; July 23. Class 21.
Stamm, B. I. J., doing business as Kresno-Stamm Mfg. Co., New York, N. Y. Oil and gas hot water heaters and boilers. Serial No. 481,679; July 23. Class 34.
Standard Brands Incorporated, New York, N. Y. Canned mixed vegetable juices. Serial No. 494,803; July 23. Class 46.
Stevens, W., & Co.: *See*—
Stevens, William S.
Stevens, William S., doing business as W. Stevens & Co., London, England. Lotions used as soothing applications. Serial No. 494,718; July 23. Class 6.
Sun Oil Company, Philadelphia, Pa. Pneumatic tire and inner tube repair kits. Serial No. 496,350; July 23. Class 35.
Swett's, Dr., Root Beer Co., Inc., New York, N. Y. Root beer. Serial No. 486,610; July 23. Class 45.
Turco Products, Inc., Los Angeles, Calif. General purpose cleaning compound. Serial No. 495,917; July 23. Class 4.
Villarreal, Elizabeth, Chicago, Ill. Nonalcoholic, maltless beverage. Serial No. 468,647; July 23. Class 45.
Weggel, Erwin J., doing business as General Engineering Co., Bay City, Mich. Incinerators. Serial No. 496,743; July 23. Class 34.
Wesco Products, Inc., Buffalo, N. Y. Cocoanut oil shampoo. Serial No. 495,531; July 23. Class 6.
White Rock Corporation, New York, N. Y. Sparkling water and other nonalcoholic, maltless, carbonated, and non-carbonated beverages. Serial No. 497,430; July 23. Class 45.
Whiting Corporation, Harvey, Ill. Electric arc furnaces. Serial No. 482,826; July 23. Class 21.
Yardstick, Inc., The, New York, N. Y. Piece goods of cotton, rayon, wool, and mixtures of same. Serial No. 480,217; July 23. Class 42.
Ziegler, Frank M.: *See*—
McDonald, E. E., and Ziegler.

LIST OF REGISTRANTS OF TRADE-MARKS

Alien Property Custodian: *See*—
Schulze, Erich.
Ansonia Clock Company, The, Ansonia, Conn., and New York, N. Y., to The Ansonia Clock Company, Inc., New York, N. Y. Clocks. 49,494; re-renewed Feb. 6, 1946. O. G. July 23. Class 27.
Ansonia Clock Company, The, Ansonia, Conn., and New York, N. Y., to The Ansonia Clock Company, Inc., New York, N. Y. Clocks. 49,731; re-renewed Feb. 13, 1946. O. G. July 23. Class 27.
Ansonia Clock Company, Inc., The: *See*—
Ansonia Clock Company, The.
Antle, Bud, Co.: *See*—
Antle, Lester V.
Antle, Lester V., doing business as Bud Antle Co., Watsonville, Calif. Fresh vegetables. 422,404; July 23; Serial No. 479,656; published Apr. 30, 1946. Class 46.
Arms, Leland J., San Francisco, Calif. Sound recordings. 422,470; July 23; Serial No. 491,949; published Apr. 30, 1946. Class 21.
Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys', and children's underwear and knitted outerwear. 422,444; July 23; Serial No. 488,496; published Apr. 30, 1946. Class 39.
Associated Products, Inc., Toledo, Ohio. Electric ranges, ovens, hot plates, etc. 422,524; July 23. Class 21.
B & S Products Co.: *See*—
Born, Howard.
Bacorn Company, The, Elmira, N. Y. Preparation to be used in the treatment of croup, colds, catarrh, etc. 208,055; renewed Jan. 19, 1946. O. G. July 23. Class 6.
Barger, Conan W. B., Prince Georges County, Md. Mechanically grooved disk records. 422,527; July 23. Class 36.
Barnard & Leas Manufacturing Co., Moline, Ill. Shakingbolts. 49,848; re-renewed Feb. 20, 1946. O. G. July 23. Class 13.
Bartlett Heard Co.: *See*—
Bartlett-Heard Land & Cattle Company.
Bartlett-Heard Land & Cattle Company, also doing business as Bartlett Heard Co., Phoenix, Ariz. Fresh grapes and fresh deciduous fruits. 422,523; July 23. Class 46.
Battenfeld Grease & Oil Corporation, Kansas City, Mo. Lubricating greases. 422,519; July 23. Class 15.

Bega Sewing Machine Corp., New York, N. Y. Sewing machines, parts thereof. 422,432; July 23; Serial No. 486,189; published Apr. 30, 1946. Class 23.
Bernheim Distilling Company: *See*—
Eminence Distillery Co.
Berry, Dr. C. H., Company, to Kremola Company, Inc., Chicago, Ill. Cold cream, cleansing cream. 211,368; renewed Apr. 13, 1946. O. G. July 23. Class 6.
Bilbara Publishing Company Inc., New York, N. Y. Illustrated magazine. 422,413; July 23; Serial No. 482,830; published Oct. 16, 1945. Class 38.
Bilbara Publishing Company Inc., New York, N. Y. Magazine relating to television. 422,423; July 23; Serial No. 484,771; published Oct. 16, 1945. Class 38.
Borel, Ernest, & Co. S. A., Neuchatel, Switzerland. Watches, clocks, and parts thereof. 422,525; July 23. Class 27.
Born, Howard, doing business as B & S Products Co., New York, N. Y. Hair brushes. 422,472; July 23; Serial No. 492,126; published Apr. 23, 1946. Class 29.
Breed and Breed, Winchester, Mass. Candies. 209,187; renewed Feb. 16, 1946. O. G. July 23. Class 46.
Brown, John I., & Son, Boston, Mass., to Lafayette Drug Co., Inc., Jersey City, N. J. Medicated lozenges. 48,539; re-renewed Jan. 2, 1946. O. G. July 23. Class 6.
Brown-Lipe Gear Company, Toledo, Ohio. Automotive transmission mechanisms. 422,530–1; July 23. Class 23.
Brush, V., Englewood, N. J. Publication issued periodically. 422,414; July 23; Serial No. 482,918; published Sept. 25, 1945. Class 38.
Buelow, C. F., doing business as C. F. Buelow Co., Seattle, Wash. Dehydrated potatoes. 422,464; July 23; Serial No. 491,228; published Apr. 30, 1946. Class 46.
Buelow, C. F., Co.: *See*—
Buelow, C. F.
Bürki & Cie, Bern, Switzerland. Cheese. 211,543; renewed Apr. 13, 1946. O. G. July 23. Class 46.
Calorizing Company, The, Pittsburgh, Pa. Recuperators and air heaters. 209,003; renewed Feb. 16, 1946. O. G. July 23. Class 34.
Carter, David E., doing business as Manufacturers Warehouse Co., Oklahoma City, Okla. Oil field equipment. 422,460; July 23; Serial No. 490,741; published Apr. 30, 1946. Class 23.
Chasers, Inc., doing business under the name The Ohio Confection Company, New York, N. Y. Chocolate-covered almonds, raisins, and mints. 422,397; July 23; Serial No. 472,039; published Sept. 11, 1945. Class 46.
Chatillon, John, & Sons, New York, N. Y. Cooks' forks, ice picks, ice cutters, etc. 215,420; renewed July 20, 1946. O. G. July 23. Class 23.
Chatillon, John, & Sons, New York, N. Y. Dynamometers, thermometers, beam scales, etc. 215,504; renewed July 20, 1946. O. G. July 23. Class 26.
China Overseas, New York, N. Y. Jewelry. 422,416; July 23; Serial No. 483,513; published Apr. 16, 1946. Class 28.
Christian Science Publishing Society, The, Boston, Mass. Newspaper column. 422,465; July 23; Serial No. 491,312; published Apr. 23, 1946. Class 38.
Clayton Manufacturing Company, The, Bristol, Conn. Scissors and shears. 422,469; July 23; Serial No. 491,628; published Apr. 23, 1946. Class 23.
Cleveland Heater Company, The, Cleveland, Ohio. Electric water heaters and accessories therefor. 422,408; July 23; Serial No. 481,314; published Apr. 23, 1946. Class 21.
Cohen, Harry A., doing business as Standard Electric Mfg. Co., West Berlin, N. J. Sump pumps, centrifugal pumps, coolant pumps, etc. 422,526; July 23. Class 23.
Coloso Limited, Ridgefield, N. J. Oil, gasoline, and gas burning cooking and heating stoves; liquid fuel burning lanterns, etc. 422,415; July 23; Serial No. 483,214; published Apr. 30, 1946. Class 34.
Consolidated Razor Blade Co., Inc., Jersey City, N. J. Watch bands. 422,517; July 23. Class 28.
Coro, Inc., New York, N. Y. Compacts for containing cosmetics. 422,481; July 23; Serial No. 494,030; published Apr. 30, 1946. Class 2.
Coro, Inc., New York, N. Y. Compacts for containing cosmetics. 422,482; July 23; Serial No. 494,034; published Apr. 30, 1946. Class 2.
Crest Fabrics Corp., New York, N. Y. Ladies', misses' and girls' dresses, blouses, playsuits, etc. 422,433; July 23; Serial No. 486,355; published Feb. 19, 1946. Class 39.
Curtis Publishing Company, The, Philadelphia, Pa. Agricultural journal. 209,129; renewed Feb. 16, 1946. O. G. July 23. Class 38.
Davey Compressor Company, Kent, Ohio. Portable engine driven electric light and power units. 422,396; July 23; Serial No. 471,999; published Apr. 30, 1946. Class 21.
Davis-Westholt Manufacturing, Incorporated, Wichita, Kans. Agricultural and industrial machinery. 422,412; July 23; Serial No. 482,196; published Apr. 30, 1946. Class 23.
Deutsch, Max, doing business as Glas-Lite Rotary Display Mfg. Co., Long Branch, N. J. Electric merchandise display apparatus. 422,522; July 23. Class 21.
Dort, Elizabeth, to Florence Zegler, Buffalo, N. Y. Stomachic and carminative. 52,170; re-renewed May 1, 1946. O. G. July 23. Class 6.
Eagle Manufacturing Company, Appleton, Wis. Power driven machine for husking corn. 422,463; July 23; Serial No. 491,001; published Apr. 30, 1946. Class 23.
Eitel-McCullough, Inc., San Bruno, Calif. Gas tubes wherein electrodes are mounted in an envelope containing gaseous atmosphere. 422,407; July 23; Serial No. 480,858; published Apr. 23, 1946. Class 21.
Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.
Eminence Distillery Co., St. Paul, Minn., to Bernheim Distilling Company, Louisville, Ky. Whisky. 55,284; re-renewed Aug. 14, 1946. O. G. July 23. Class 49.
Essex Rubber Company, Trenton, N. J. Rubber heels. 207,928; renewed Jan. 12, 1946. O. G. July 23. Class 39.
Fabrique d'horlogerie La Glycine (La Glycine Watch Factory), (Uhrenfabrik La Glycine), Bienne (Canton of Berne), Switzerland. Watches and time pieces. 209,007; renewed Feb. 16, 1946. O. G. July 23. Class 27.
Faries Manufacturing Company, Decatur, Ill. Electric desk and table lamps. 215,501; renewed July 20, 1946. O. G. July 23. Class 21.
Fashion Park, Inc., Rochester, N. Y. Men's topcoats, overcoats, and sport coats. 422,503; July 23. Class 39.
Fennville Fruit Exchange, Inc., Fennville, Mich. Fresh fruits. 215,814; renewed July 27, 1946. O. G. July 23. Class 46.
Ferguson, Harry J., Jenkintown, Pa. Roller gravity, wheel gravity, belt, chain, etc. 422,406; July 23; Serial No. 480,819; published Apr. 30, 1946. Class 23.
Florida Products Company: *See*—
Gebhart, Lee.
Foster Wheeler Corporation: *See*—
Wheeler Condenser & Engineering Co.
Gambs-Peets, Inc., Oakland, Calif. Hand trucks. 422,452; July 23; Serial No. 489,861; published Apr. 16, 1946. Class 19.
Gebhart, Lee, doing business as Florida Products Company, Coral Gables, Fla. Battery corrosion eliminator. 422,439; July 23; Serial No. 487,467; published Apr. 23, 1946. Class 21.
Gelb, Norman: *See*—
Jewel Watch Co., Inc.
General Tire & Rubber Company, The: *See*—
India Tire and Rubber Company, The.
Gilbert, Elon J., doing business as Richey & Gilbert Company, Yakima, Wash. Fresh deciduous fruits. 422,507; July 23. Class 46.
Gillette Safety Razor Company, Boston, Mass. Containers for inserting safety razor blades into safety razors. 422,514; July 23. Class 23.
Given, John M., Company, The, New York, N. Y., Chicago, Ill., and Pittsburgh, Pa., to The John M. Given Company, New York, N. Y. Hosiery. 206,846; renewed Dec. 8, 1945. O. G. July 23. Class 39.
Glas-Lite Rotary Display Mfg. Co.: *See*—
Deutsch, Max.
Glick, Emil, Cleveland, Ohio. Knitted neckties and knitted scarfs. 215,454; renewed July 20, 1946. O. G. July 23. Class 39.
Globe Hoist Company, Des Moines, Iowa. Stationary hydraulic automobile hoists. 422,516; July 23. Class 23.
Gochman, Henry A.: *See*—
Herzog, Joseph L., & Co.
Gordon & Lesher Dress Corp., New York, N. Y. Women's dresses. 422,501; July 23. Class 39.
Gorham Manufacturing Company: *See*—
Gorham Mfg. Co.
Gorham Manufacturing Company, Providence, R. I. Electroplated hollow ware, electroplated or silver-plated tableware and electroplated or silver-plated flat ware. 54,331; re-renewed June 26, 1946. O. G. July 23. Class 28.
Gorham Manufacturing Company, Providence, R. I. Combination leather writing sets or secretaries, leather-bound blotting-pads, and leather writing-pads. 54,597; re-renewed June 26, 1946. O. G. July 23. Class 37.
Gorham Mfg. Co., New York, N. Y., to Gorham Manufacturing Company, Providence, R. I. Sterling and solid silver hollow ware, flat ware, and tableware. 54,763; re-renewed June 26, 1946. O. G. July 23. Class 28.
Graham & Zenger, Inc., to Clarence Levy, New York, N. Y. China. 214,004; renewed June 8, 1946. O. G. July 23. Class 30.
Grand Specialties Company, Chicago, Ill. C-clamps. 422,441; July 23; Serial No. 487,906; published Apr. 23, 1946. Class 23.
Graton & Knight Company, Worcester, Mass. Leather in the piece. 422,424; July 23; Serial No. 484,892; published Apr. 30, 1946. Class 1.
Haas Brothers, San Francisco, Calif. Food products. 422,532; July 23. Class 46.
Hall Grain Company, New Iberia, La. Blend of can syrup and corn syrup. 422,449; July 23; Serial No. 489,580; published Apr. 30, 1946. Class 46.
Hamilton Candy Company: *See*—
Hamilton, John D.

Hamilton, John D., doing business as Hamilton Candy Company, Tacoma, Wash. Candy. 422,511; July 23. Class 46.

Hammond Instrument Company, Chicago, Ill. Electric clocks. 422,458; July 23; Serial No. 490,488; published Apr. 23, 1946. Class 27.

Hansen and Simonsen, Milwaukee, Wis. Portable hand tools. 422,508; July 23. Class 23.

Herzog, Joseph L., & Co., to H. A. Gochman, New York, N. Y. Finger rings. 215,176; renewed July 13, 1946. O. G. July 23. Class 28.

Holder, Joy, New York, N. Y. Work dresses and work uniforms. 422,403; July 23; Serial No. 478,685; published Apr. 30, 1946. Class 39.

Hollywood Trousers, Inc., New York, N. Y. Boys' and men's trousers, suits, and coats, and ladies' skirts, suits, etc. 422,419; July 23; Serial No. 484,254; published Apr. 30, 1946. Class 39.

Howard, Frank L., doing business as Frank L. Howard Engineering Company, Los Angeles, Calif. Concrete testing core cutting machines, concrete saws, concrete drills, etc. 422,417; July 23; Serial No. 483,622; published Apr. 30, 1946. Class 23.

Howard, Frank L., Engineering Company: *See*—
Howard, Frank L.

Howard Radio Co.: *See*—
Howard Radio Company.

Howard Radio Company, to Howard Radio Co., Chicago, Ill. Telephone plugs, rheostats, potentiometers, etc. 211,893; renewed Apr. 20, 1946. O. G. July 23. Class 21.

Hug Company, The, to The Hug Company, Highland, Ill. Motor trucks. 210,622; renewed Mar. 16, 1946. O. G. July 23. Class 19.

Huppert, Karl H., Chicago, Ill. Laboratory electric furnace. 422,455; July 23; Serial No. 490,382; published Apr. 30, 1946. Class 26.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Cigarette cases, cigarette receptacles, and cigar receptacles. 422,410; July 23; Serial No. 481,844; published Apr. 30, 1946. Class 8.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Cosmetic cream jars, perfume bottles and vials. 422,411; July 23; Serial No. 481,846; published Apr. 30, 1946. Class 33.

India Tire and Rubber Company, The, Mogadors and Akron, Ohio, to The General Tire & Rubber Company, Akron, Ohio. Inner tubes. 213,881; renewed June 8, 1946. O. G. July 23. Class 35.

Industrial Latex Company, New York, N. Y. Latex adhesive. 422,528; July 23. Class 5.

Ingraham, E., Company, The, Bristol, Conn. Clocks. 422,461; July 23; Serial No. 490,757; published Apr. 16, 1946. Class 27.

Ingram, J. M., Fruit Corporation, Tampa, Fla. Fresh citrus fruits. 422,398; July 23; Serial No. 474,282; published Oct. 31, 1944. Class 46.

Interlake Tissue Mills Co. Ltd., Merriton, Ontario, Canada, to Interlake Tissue Mills Co. Limited, Toronto, Ontario, Canada. Toilet paper, sanitary toweling, and crêpe paper, etc. 214,078; renewed June 15, 1946. O. G. July 23. Class 37.

Interlake Tissue Mills Co. Limited: *See*—
Interlake Tissue Mills Co. Ltd.

International Plastic Corporation, Morristown, N. J. Paper adhesive tapes and cellulose adhesive tapes. 422,429; July 23; Serial No. 485,774; published Apr. 30, 1946. Class 37.

Isgo Wall Paper Corporation, Chicago, Ill. Paste suitable for use with wall paper and like products. 422,467; July 23; Serial No. 491,479; published Apr. 30, 1946. Class 5.

Jewel Watch Co.: *See*—
Jewel Watch Co., Inc.

Jewel Watch Co., Inc., to Norman Gelb, doing business as Jewel Watch Co., New York, N. Y. Watchcases and watch movements. 184,167; renewed May 20, 1944. O. G. July 23. Class 27.

Kawamura, A. S., doing business as Sun Marketing Company, Denver, Rocky Ford, and Alamosa, Colo., and Glendale, Ariz. Fresh vegetables. 422,420; July 23; Serial No. 484,260; published Dec. 25, 1945. Class 46.

Keith, Geo. E., Company, Brockton, Mass. Leather and canvas boots and shoes. 51,496; re-renewed Apr. 17, 1946. O. G. July 23. Class 39.

Keith, Geo. E., Company, Brockton, Mass. Shoe-dressing. 53,001; re-renewed May 22, 1946. O. G. July 23. Class 4.

Keuffel & Esser Company, Hoboken, N. J. Slide rules. 422,400; July 23; Serial No. 476,332; published Apr. 30, 1946. Class 26.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Lock equipped cabinets for fire extinguishing apparatus. 422,427; July 23; Serial No. 485,290; published Mar. 26, 1946. Class 25.

Klug, Adolph, Oakdale, Long Island, N. Y. Tomato juice, canned goods, bakery products, etc. 422,471; July 23; Serial No. 491,985; published Apr. 30, 1946. Class 46.

Korco Manufacturing Co., Inc., New York, N. Y. Electrical blankets, electrical non-therapeutic heating pads, electrical irons, etc. 422,425; July 23; Serial No. 485,088; published Apr. 30, 1946. Class 21.

Kremola Company, Inc.: *See*—
Berry, Dr. C. H. Company.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Fresh fruits and vegetables. 422,399; July 23; Serial No. 475,255; published Apr. 2, 1946. Class 46.

Lafayette Drug Co., Inc.: *See*—
Brown, John I., & Son.

Laher Auto Spring Co., Inc., Portland, Oreg., to Laher Spring and Tire Corporation, Oakland, Calif. Automobile bumpers. 206,777; renewed Dec. 8, 1945. O. G. July 23. Class 19.

Laher Spring and Tire Corporation: *See*—
Laher Auto Spring Co., Inc.

Lassy, Carl O., doing business as Lassy Tool Company, Plainville, Conn. Hand-operated machines, and parts of such machines, metal-forming punches, etc. 422,515; July 23. Class 23.

Lassy Tool Company: *See*—
Lassy, Carl O.

Lee Products Co., Atlanta, Ga. Razor blades. 422,521; July 23. Class 23.

Leroux, Robert G., Asnieres, France. Condensed breakfast food with a cocoa base. 422,483; July 23; Serial No. 494,090; published Apr. 30, 1946. Class 46.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,484; July 23; Serial No. 495,035; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,485; July 23; Serial No. 495,037; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,486; July 23; Serial No. 495,043; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,487; July 23; Serial No. 495,048; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,488–9; July 23; Serial Nos. 495,050–1; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,490; July 23; Serial No. 495,060; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,491; July 23; Serial No. 495,062; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,492; July 23; Serial No. 495,065; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,493; July 23; Serial No. 495,068; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,494; July 23; Serial No. 495,070; published Apr. 30, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,495; July 23; Serial No. 495,073; published Apr. 30, 1946. Class 2.

Levy, Clarence: *See*—
Graham & Zenger, Inc.

Lilli Ann Company, San Francisco, Calif. Women's ready-to-wear suits, jackets, coats, and outer skirts. 422,421; July 23; Serial No. 484,413; published Apr. 30, 1946. Class 39.

Lincoln Sales Co.: *See*—
Podolsky, Irving.

Lion Bros. Co., Baltimore, Md. Silk embroideries. 54,903; re-renewed July 31, 1946. O. G. July 23. Class 40.

Maitlen & Benson, Long Beach, Calif. Welding tip cleaners. 422,418; July 23; Serial No. 484,098; published Apr. 23, 1946. Class 23.

Manufacturers Warehouse Co.: *See*—
Carter, David E.

Master Surgical Instrument Company, Irvington, N. J. Haemostatic forceps, holders for surgical needles, etc. 422,478; July 23; Serial No. 493,503; published Apr. 30, 1946. Class 44.

Micro-Master Company, The, Chicago, Ill. Non-magnetic holding devices. 422,497; July 23. Class 23.

Millett Corporation, New York, N. Y. Folded or twisted paper yarns for use as insulation. 422,468; July 23; Serial No. 491,490; published Apr. 23, 1946. Class 21.

Milwaukee Tool and Die Co., Milwaukee, Wis. Metal cutting, grinding and distorting tools, tool holders, punches, dies, etc. 422,498; July 23. Class 23.

Mission Manufacturing Company, Houston, Tex. Sluwh pump rods, plug valves, and parts therefor. 422,500; July 23. Class 23.

Morris, Harry, Associates, Chicago, Ill. Necklaces, bracelets, brooches, lavaliers, etc. 422,430; July 23; Serial No. 486,057; published Apr. 9, 1946. Class 28.

Murray, Edgar A., to Edgar A. Murray Co., Detroit, Mich. Compound for exterminating vermin. 52,157; re-renewed May 1, 1946. O. G. July 23. Class 6.

Murray, Edgar A., Co.: *See*—
Murray, Edgar A.

Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables. 422,435; July 23; Serial No. 487,093; published Mar. 26, 1946. Class 46.

Myers, Ralph E., Co.: *See*—
Myers, Ralph E.

Napier Co., The, Meriden, Conn. Sterling silver necklaces, bracelets, earrings, etc. 422,533; July 23. Class 28.

National Screw & Manufacturing Company, The, Cleveland, Ohio. Spokes and nipples for vehicle wheels. 422,409; July 23; Serial No. 481,335; published Apr. 16, 1946. Class 19.

Nivada Watch Corporation, New York, N. Y. Watches. 422,453; July 23; Serial No. 490,204; published Apr. 16, 1946. Class 27.

Ohio Confection Company, The: *See*—
Chasers, Inc.

Ohio Confection Company, The, Cleveland, Ohio. Chocolate-covered almonds, chocolate-covered raisins and candy. 422,402; July 23; Serial No. 478,641; published Mar. 20, 1945. Class 46.

Oneida Ltd., Sherrill and Oneida, N. Y. Silver-plated flat tableware. 422,451; July 23; Serial No. 489,824; published Apr. 16, 1946. Class 28.

Ox Fibre Brush Company, Inc., New York, N. Y. Street brushes and brooms. 422,393; July 23; Serial No. 420,726; published Apr. 16, 1946. Class 29.

Pacific Source Equipment Company, Hollywood, Calif. Electric public address combinations. 422,426; July 23; Serial No. 485,095; published Apr. 30, 1946. Class 21.

Packet Company, The, Chicago, Ill. Cigar and cigarette lighters operating on gasoline or any other quick igniting fluid. 422,422; July 23; Serial No. 484,457; published Apr. 30, 1946. Class 34.

Palmer Clothing Manufacturing Company, Chattanooga, Tenn. Men's and young men's suits. 210,092; renewed Mar. 9, 1946. O. G. July 23. Class 39.

Pa-Poose Products Co., New Orleans, La. Sauce, sweet relish, French mustard, etc. 422,443; July 23; Serial No. 488,282; published Apr. 30, 1946. Class 46.

Parker, Phillip J., Chicago, Ill. Generator test benches, generator test lathes, metal lathes, etc. 422,401; July 23; Serial No. 476,524; published Apr. 23, 1946. Class 23.

Patterson Foundry & Machine Co., The, East Liverpool, Ohio. Porcelain lining blocks and porcelain balls for ball mills. 422,447; July 23; Serial No. 488,830; published Apr. 30, 1946. Class 23.

Plastic Film Corporation, New York, N. Y. Transparent and translucent flexible films. 422,457; July 23; Serial No. 490,444; published Apr. 30, 1946. Class 50.

Podolsky, Irving, doing business as Lincoln Sales Co., Chicago, Ill. Raisins. 422,405; July 23; Serial No. 479,726; published Apr. 30, 1946. Class 46.

Ponchatoula Farm Bureau Association, Inc., Ponchatoula, La. Strawberries. 209,301; renewed Feb. 23, 1946. O. G. July 23. Class 46.

Pro-phy-lac-tic Brush Company, Northampton, Mass. Boudoir clocks. 422,462; July 23; Serial No. 490,767; published Apr. 16, 1946. Class 27.

Quick Charge, Inc., Oklahoma City, Okla. Electrical arc welding machine and parts thereof. 422,504; July 23. Class 21.

Quick-Way Truck Shovel Co., Denver, Colo. Truck shovels, draglines, trench hoes, etc. 422,505; July 23. Class 23.

Ransome Machinery Company, Dunellen, N. J. Machines for holding work. 422,500; July 23. Class 23.

Rastetter, Louis, & Sons, to Louis Rastetter & Sons Company, Fort Wayne, Ind. Folding chairs. 210,070; renewed Mar. 9, 1946. O. G. July 23. Class 32.

Rastetter, Louis, & Sons Company: *See*—
Rastetter, Louis, & Sons.

Red Spot Paint & Varnish Company, Evansville, Ind. Paint enamels; dry, paste, and ready-mixed paints; and finishing materials. 210,432; renewed Mar. 16, 1946. O. G. July 23. Class 16.

Reinhard-McCabe Co., Minneapolis, Minn. Electrical soldering irons. 422,518; July 23. Class 21.

Richey & Gilbert Company: *See*—
Gilbert, Elon J.

Robins, G. S., & Company, St. Louis, Mo. Laundry nets. 422,476; July 23; Serial No. 492,340; published Apr. 23, 1946. Class 24.

Rodé Art Jewelers, Inc., The, New York, N. Y. Necklaces, bracelets, finger rings, etc. 422,529; July 23. Class 28.

Rosenblatt, D. B., Incorporated, Minneapolis, Minn. Men's overcoats. 422,477; July 23; Serial No. 492,465; published Apr. 30, 1946. Class 39.

Schiller, Arthur, & Son, to Arthur Schiller & Son, Chicago, Ill. Chinaware and crockery. 204,600; renewed Oct. 20, 1945. O. G. July 23. Class 30.

Schreiber, H. E., & Son, Rio Grande City and Donna, Tex. Fresh vegetables. 422,479; July 23; Serial No. 493,831; published Apr. 30, 1946. Class 46.

Schulze, Erich, Hannover, Germany; vested in the Alien Property Custodian, Washington, D. C., and renewed to him. Sterilizing solution for local anæsthesia and surgical purposes. 208,887; renewed Feb. 9, 1946. O. G. July 23. Class 6.

Shiman Bros. & Co., Inc., New York, N. Y. Finger rings. 422,473; July 23; Serial No. 492,159; published Apr. 23, 1946. Class 28.

Simer, Jerome, doing business as Jerome Simer Co., Minneapolis, Minn. Rotary pumps. 422,445; July 23; Serial No. 488,621; published Apr. 23, 1946. Class 23.

Simer, Jerome, Co.: *See*—
Simer, Jerome.

Singer Manufacturing Company, The: *See*—
Wheeler & Wilson Manufacturing Company.

Smith, Kline & French Laboratories, Philadelphia, Pa. Inhalers. 422,428; July 23; Serial No. 485,423; published Apr. 30, 1946. Class 44.

Smith, Seymour, & Son, Inc., Watertown, Conn. Pliers, clamps in the nature of working tools, etc. 422,506; July 23. Class 23.

Standard Electric Mfg. Co.: *See*—
Cohen, Harry A.

Standard Steel Works, North Kansas City, Mo. Feed grinders, road and street construction and maintenance equipment. 422,499; July 23. Class 23.

Standard Tool Company, The, Cleveland, Ohio. Twist drills, chucks, reamers, etc. 422,475; July 23; Serial No. 492,232; published Apr. 30, 1946. Class 23.

Sterling Point Frosted Foods, New York, N. Y. Frozen foods. 422,450; July 23; Serial No. 489,775; published Apr. 30, 1946. Class 46.

Stomac Engineering Company, Cleveland, Ohio. Water or liquid conditioners employing electric current. 422,513; July 23. Class 21.

Sturr, Margaret T., Haddon Heights, N. J. Jar lifters. 422,510; July 23. Class 23.

Sun Marketing Company: *See*—
Kawamura, A. S.

Sunset Line & Twine Co., San Francisco, Calif. Fishing lines. 422,395; July 23; Serial No. 470,747; published Apr. 30, 1946. Class 22.

Taylor & Co., Houston, Tex. Jewelry. 422,454; July 23; Serial No. 490,216; published Apr. 16, 1946. Class 28.

Technical Devices Corporation, Roseland, N. J. Radio and electronic equipment. 422,446; July 23; Serial No. 488,715; published Apr. 30, 1946. Class 21.

Thurber Company, Incorporated, The, Brooklyn, N. Y. Mechanically operated automatic safety control and locking devices. 422,442; July 23; Serial No. 488,243; published Apr. 30, 1946. Class 23.

Triangle Conduit & Cable Co., Inc., New Brunswick, N. J., and elsewhere. Rigid conduit, rubber covered building wire and cable, etc. 422,431; July 23; Serial No. 486,125; published Apr. 30, 1946. Class 21.

Uihlein, Julius, doing business as Julius Uihlein & Company, to Julius Uihlein & Company, Cincinnati, Ohio. Steel blocks, disks, bars, etc. 213,383; renewed May 25, 1946. O. G. July 23. Class 14.

Uihlein, Julius, & Company: *See*—
Uihlein, Julius.

Union Bag & Paper Company, The, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 52,385–6; re-renewed May 8, 1946. O. G. July 23. Class 2.

Union Bag & Paper Company, The, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 53,577; re-renewed June 5, 1946. O. G. July 23. Class 2.

Union Bag & Paper Company, The, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 54,223; re-renewed June 19, 1946. O. G. July 23. Class 2.

Union Bag & Paper Corporation: *See*—
Union Bag & Paper Company, The.

Union Carbide and Carbon Corporation, New York, N. Y. Friction lighters. 422,459; July 23; Serial No. 490,559; published Apr. 30, 1946. Class 34.

United Knitting Machine Company, Cheltenham, Pa. Hosiery making machine parts. 422,440; July 23; Serial No. 487,651; published Apr. 23, 1946. Class 23.

United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Tubes, rods, valve seat rings, etc. 422,436; July 23; Serial No. 487,225; published Apr. 30, 1946. Class 13.

United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Mortars, pestles, crucibles, and vessels, etc. 422,437; July 23; Serial No. 487,228; published Apr. 30, 1946. Class 26.

United Thermo-Stable Corporation, New York, N. Y. Electrically heated pads and electrically heated blankets, etc. 422,512; July 23. Class 21.

Valladares, Manuel, New York, N. Y. Stencil paper, ledger paper, writing paper, etc. 422,394; July 23; Serial No. 469,479; published Apr. 30, 1946. Class 37.

Walters, Edgar B., Organization Inc., New York, N. Y. Smoker's articles. 215,415; renewed July 20, 1946. O. G. July 23. Class 8.

Weber, Geo. F., Akron, Ohio. Dolls and dressed dolls. 422,448; July 23; Serial No. 489,094; published Apr. 30, 1946. Class 22.

Westgate Sea Products Co., San Diego, Calif. Canned fish. 422,496; July 23. Class 46.

Westminster Silver Co., Inc., New York, N. Y. Watches. 422,456; July 23; Serial No. 490,409; published Apr. 16, 1946. Class 27.

Wheeler Condenser & Engineering Co., to Foster Wheeler Corporation, New York, N. Y. Surface and jet condensers. 46,998; re-renewed Oct. 17, 1945. O. G. July 23. Class 23.

Wheeler Condenser & Engineering Co., to Foster Wheeler Corporation, New York, N. Y. Evaporating and distilling apparatus. 48,409; re-renewed Dec. 26, 1945. O. G. July 23. Class 23.

Wheeler & Wilson Manufacturing Company, Bridgeport, Conn., to The Singer Manufacturing Company, Elizabeth, N. J. All kinds of sewing-machines and their parts and attachments. 55,866; re-renewed Aug. 21, 1946. O. G. July 23. Class 23.

Wheeler & Wilson Manufacturing Company, Bridgeport, Conn., to The Singer Manufacturing Company, Elizabeth, N. J. All kinds of sewing-machines and their parts and attachments. 55,999; re-renewed Aug. 21, 1946. O. G. July 23. Class 23.

Wheeler & Wilson Manufacturing Company, Bridgeport, Conn., to The Singer Manufacturing Company, Elizabeth, N. J. All kinds of sewing machines and their parts and attachments. 56,109; re-renewed Aug. 21, 1946. O. G. July 23. Class 23.

White, Edmund B., Quincy, Mass. Jar and bottle cap removers. 422,520; July 23. Class 23.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 422,480; July 23; Serial No. 493,905; published Apr. 30, 1946. Class 46.

Wilbert Products Co., Inc., The, New York, N. Y. Plastic floor finish. 422,502; July 23. Class 16.

Wilson, Earl, New York, N. Y. Artificial pearls and jewelry. 422,466; July 23; Serial No. 491,443; published Apr. 16, 1946. Class 28.

Woodhead, Daniel, Company, Chicago, Ill. Portable electric lamp products and wiring devices and parts thereof. 422,434; July 23; Serial No. 486,705; published Apr. 23, 1946. Class 21.

Wooldridge Manufacturing Company, Sunnyvale, Calif. Earth moving carrier scrapers. 422,438; July 23; Serial No. 487,402; published Apr. 23, 1946. Class 23.

Young, Everett E., Co., Inc., Bridgewater, Mass. Collapsible clothes drier rack. 422,474; July 23; Serial No. 492,168; published Apr. 23, 1946. Class 24.

Zegler, Florence: *See*—
Dort, Elizabeth.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather in the piece. Graton & Knight Company. 422,424; July 23; Serial No. 484,892; published Apr. 30, 1946.

CLASS 2

Bags, Paper. Union Bag & Paper Company. 52,385–6; re-renewed May 8, 1946. O. G. July 23.

Bags, Paper. Union Bag & Paper Company. 53,577; re-renewed June 5, 1946. O. G. July 23.

Bags, Paper. Union Bag & Paper Company. 54,223; re-renewed June 19, 1946. O. G. July 23.

Compacts for containing cosmetics. Coro, Inc. 422,481; July 23; Serial No. 494,030; published Apr. 30, 1946.

Compacts for containing cosmetics. Coro, Inc. 422,482; July 23; Serial No. 494,034; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,484; July 23; Serial No. 495,035; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,485; July 23; Serial No. 495,037; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,486; July 23; Serial No. 495,043; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,487; July 23; Serial No. 495,048; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,488–9; July 23; Serial Nos. 495,050–1; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,490; July 23; Serial No. 495,060; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,491; July 23; Serial No. 495,062; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,492; July 23; Serial No. 495,065; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,493; July 23; Serial No. 495,068; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,494; July 23; Serial No. 495,070; published Apr. 30, 1946.

Vanity cases, compacts, and lipstick holders. Les Parfums de Dana, Inc. 422,495; July 23; Serial No. 495,073; published Apr. 30, 1946.

CLASS 4

Shoe-dressing. Geo. E. Keith Company. 53,001; re-renewed May 22, 1946. O. G. July 23.

CLASS 5

Adhesive, Latex. Industrial Latex Company. 422,528; July 23.

Paste suitable for use with wall paper and like products. Isgo Wall Paper Corporation. 422,467; July 23; Serial No. 491,479; published Apr. 30, 1946.

CLASS 6

Cold cream, cleansing cream. Dr. C. H. Berry Company. 211,368; renewed Apr. 13, 1946. O. G. July 23.

Compound for exterminating vermin. E. A. Murray. 52,157; re-renewed May 1, 1946. O. G. July 23.

Medicated lozenges. John I. Brown & Son. 48,539; re-renewed Jan. 2, 1946. O. G. July 23.

Preparation to be used in the treatment of croup, colds, catarrh, etc. Bacorn Company. 208,055; renewed Jan. 19, 1946. O. G. July 23.

Solution for local anæsthesia and surgical purposes, Sterilizing. E. Schulze. 208,887; renewed Feb. 9, 1946. O. G. July 23.

Stomachic and carminative. E. Dort. 52,170; re-renewed May 1, 1946. O. G. July 23.

CLASS 8

Cases, cigarette receptacles, and cigar receptacles, Cigarette. Illinois Watch Case Co. 422,410; July 23; Serial No. 481,844; published Apr. 30, 1946.

Smoker's articles. Edgar B. Walters Organization Inc. 215,415; renewed July 20, 1946. O. G. July 23.

CLASS 13

Shaking-bolts. Barnard & Leas Manufacturing Co. 49,848; re-renewed Feb. 20, 1946. O. G. July 23.

Tubes, rods, valve seat rings, etc. United States Quarry Tile Company. 422,436; July 23; Serial No. 487,225; published Apr. 30, 1946.

CLASS 14

Steel blocks, disks, bars, etc. J. Uihlein. 213,383; renewed May 25, 1946. O. G. July 23.

CLASS 15

Greases, Lubricating. Battenfeld Grease & Oil Corporation. 422,519; July 23.

CLASS 16

Floor finish, Plastic. Wilbert Products Co., Inc. 422,502; July 23.

Paint enamels; dry, paste, and ready-mixed paints; and finishing materials. Red Spot Paint & Varnish Company. 210,432; renewed Mar. 16, 1946. O. G. July 23.

CLASS 19

Automobile bumpers. Laher Auto Spring Co., Inc. 206,777; renewed Dec. 8, 1945. O. G. July 23.

Spokes and nipples for vehicle wheels. National Screw & Manufacturing Company. 422,409; July 23; Serial No. 481,335; published Apr. 16, 1946.

Trucks, Hand. Gambs-Peets, Inc. 422,452; July 23; Serial No. 489,861; published Apr. 16, 1946.

Trucks, Motor. Hug Company. 210,622; renewed Mar. 16, 1946. O. G. July 23.

CLASS 21

Battery corrosion eliminator. L. Gebhart. 422,439; July 23; Serial No. 487,467; published Apr. 23, 1946.

Blankets, electrical non-therapeutic heating pads, electrical irons, etc., Electrical. Korco Manufacturing Co., Inc. 422,425; July 23; Serial No. 485,088; published Apr. 30, 1946.

Conduit, rubber covered building wire and cable, etc., Rigid. Triangle Conduit & Cable Co., Inc. 422,431; July 23; Serial No. 487,125; published Apr. 30, 1946.

Display apparatus, Electric merchandise. M. Deutsch. 422,522; July 23.

Electric lamp products and wiring devices and parts thereof, Portable. Daniel Woodhead Company. 422,434; July 23; Serial No. 486,705; published Apr. 23, 1946.

Electric water heaters and accessories therefor. Cleveland Heater Company. 422,408; July 23; Serial No. 481,314; published Apr. 23, 1946.

Electrical arc welding machine and parts thereof. Quick Charge, Inc. 422,504; July 23.

Electrical soldering irons. Reinhard-McCabe Co. 422,518; July 23.

Electrically heated pads and electrically heated blankets. United Thermo-Stable Corporation. 422,512; July 23.

Gas tubes wherein electrodes are mounted in an envelope containing gaseous atmosphere. Eitel-McCullough, Inc. 422,407; July 23; Serial No. 480,858; published Apr. 23, 1946.

Lamps, Electric desk and table. Faries Manufacturing Company. 215,501; renewed July 20, 1946. O. G. July 23.

Light and power units, Portable engine driven electric. Davey Compressorr Company. 422,396; July 23; Serial No. 471,999; published Apr. 30, 1946.

Paper yarns for use as insulation, Folded or twisted. Millett Corporation. 422,468; July 23; Serial No. 491,490; published Apr. 23, 1946.

Plugs, rheostats, potentiometers, etc., Telephone. Howard Radio Company. 211,893; renewed Apr. 20, 1946. O. G. July 23.

Public address combinations, Electric. Pacific Sound Equipment Company. 422,426; July 23; Serial No. 485,095; published Apr. 30, 1946.

Radio and electronic equipment. Technical Devices Corporation. 422,446; July 23; Serial No. 488,715; published Apr. 30, 1946.

Ranges, ovens, hot plates, etc., Electric. Associated Products, Inc. 422,524; July 23.

Sound recordings. L. J. Arms. 422,470; July 23; Serial No. 491,949; published Apr. 30, 1946.

Water or liquid conditioners employing electric current. Stomac Engineering Company. 422,513; July 23.

CLASS 22

Dolls and dressed dolls. G. F. Weber. 422,448; July 23; Serial No. 489,094; published Apr. 30, 1946.

Fishing lines. Sunset Line & Twine Co. 422,395; July 23; Serial No. 470,747; published Apr. 30. 1946.

CLASS 23

Benches, generator test lathes, metal lathes, etc., Generator test. P. J. Parker. 422,401; July 23; Serial No. 476,524; published Apr. 23, 1946.

C-clamps. Grand Specialties Company. 422,441; July 23; Serial No. 487,906; published Apr. 23, 1946.

Cleaners, Welding tip. Maitlen & Benson. 422,418; July 23; Serial No. 484,098; published Apr. 23, 1946.

Condensers, Surface and jet. Wheeler Condenser & Engineering Co. 46,998; re-renewed Oct. 17, 1945. O. G. July 23.

Containers for inserting safety razor blades into safety razors. Gillette Safety Razor Company. 422,514; July 23.

Conveyors, Roller gravity, wheel gravity, belt, chain, slat, and trolley. H. J. Ferguson. 422,406; July 23; Serial No. 480,819; published Apr. 30, 1946.

Cutting machines, concrete saws, concrete drills, etc., Concrete testing core. F. L. Howard. 422,417; July 23; Serial No. 483,622; published Apr. 30, 1946.

Drills, chucks, reamers, etc., Twist. Standard Tool Company. 422,475; July 23; Serial No. 492,232; published Apr. 30, 1946.

Evaporating and distilling apparatus. Wheeler Condenser & Engineering Co. 48,409; re-renewed Dec. 26, 1945. O. G. July 23.

Forks, ice picks, ice cutters, Cooks'. John Chatillon & Sons. 215,420; renewed July 20, 1946. O. G. July 23.

Grinders, road and street construction and maintenance equipment, Feed. Standard Steel Works. 422,499; July 23.

Hoists, Stationary hydraulic automobile. Globe Hoist Company. 422,516; July 23.

Holding devices, Non-magnetic. Micro-Master Company. 422,497; July 23.

Hosiery making machine parts. United Knitting Machine Company. 422,440; July 23; Serial No. 487,651; published Apr. 23, 1946.

Lifters, Jar. M. T. Sturr. 422,510; July 23.

Lining blocks and porcelain balls for ball mills, Porcelain. Patterson Foundry & Machine Co. 422,447; July 23; Serial No. 488,830; published Apr. 30, 1946.

Machine for husking corn, Power driven. Eagle Manufacturing Company. 422,463; July 23; Serial No. 491,001; published Apr. 30, 1946.

Machinery, Agricultural and industrial. Davis-Westholt Manufacturing, Incorporated. 422,412; July 23; Serial No. 482,196; published Apr. 30, 1946.

Machines and parts of such machines, metal-forming punches, etc., Hand-operated. C. O. Lassy. 422,515; July 23.

Machines for holding work. Ransome Machinery Company. 422,500; July 23.

Mechanically operated automatic safety control and locking devices. Thurber Company, Incorporated. 422,442; July 23; Serial No. 488,243; published Apr. 30, 1946.

Oil field equipment. D. E. Carter. 422,460; July 23; Serial No. 490,741; published Apr. 30, 1946.

Pliers, clamps in the nature of working tools. Seymour Smith & Son, Inc. 422,506; July 23.

Pump rods, plug valves and parts therefor, Slush. Mission Manufacturing Company. 422,509; July 23.

Pumps, centrifugal pumps, coolant pumps, Sump. H. A. Cohen. 422,526; July 23.

Pumps, Rotary. J. Simer. 422,445; July 23; Serial No. 488,621; published Apr. 23, 1946.

Razor blades. Lee Products Co. 422,521; July 23.

Removers, Jar and bottle cap. E. B. White. 422,520; July 23.

Scissors and shears. Clayton Manufacturing Company. 422,469; July 23; Serial No. 491,628; published Apr. 23, 1946.

Scrapers, Earth moving carrier. Wooldridge Manufacturing Company. 422,438; July 23; Serial No. 487,402; published Apr. 23, 1946.

Sewing-machines and their parts and attachments. All kinds of. Wheeler & Wilson Manufacturing Company. 55,866; re-renewed Aug. 21, 1946. O. G. July 23.

Sewing machines and their parts and attachments, All kinds of. Wheeler & Wilson Manufacturing Company. 55,999; re-renewed Aug. 21, 1946. O. G. July 23.

Sewing-machines and their parts and attachments, All kinds of. Wheeler & Wilson Manufacturing Company. 56,109; re-renewed Aug. 21, 1946. O. G. July 23.

Sewing machines, parts thereof. Bera Sewing Machine Corp. 422,432; July 23; Serial No. 486,189; published Apr. 30, 1946.

Shovels, draglines, trench hoes, etc., Truck. Quick-Way Truck Shovel Co. 422,505; July 23.

Tools, Portable hand. Hansen and Simonsen. 422,508; July 23.

Tools, tool holders, punches, dies, etc., Metal cutting, grinding and distorting. Milwaukee Tool and Die Co. 422,498; July 23.

Transmission mechanisms, Automotive. Brown-Lipe Gear Company. 422,530–1; July 23.

CLASS 24

Laundry nets. G. S. Robins & Company. 422,476; July 23; Serial No. 492,340; published Apr. 23, 1946.

Rack, Collapsible clothes drier. Everett E. Young Co., Inc. 422,474; July 23; Serial No. 492,168; published Apr. 23, 1946.

CLASS 25

Cabinets for fire extinguishing apparatus, Lock equipped. Walter Kidde & Company, Inc. 422,427; July 23; Serial No. 485,290; published Mar. 26, 1946.

CLASS 26

Dynamometers, thermometers, beam scales, etc. John Chatillon & Sons. 215,504; renewed July 20, 1946. O. G. July 23.

Laboratory electric furnace. K. H. Huppert. 422,455; July 23; Serial No. 490,382; published Apr. 30, 1946.

Mortars, pestles, crucibles, and vessels, etc. United States Quarry Tile Company. 422,437; July 23; Serial No. 487,228; published Apr. 30, 1946.

Rules, Slide. Keuffel & Esser Company. 422,400; July 23; Serial No. 476,332; published Apr. 30, 1946.

CLASS 27

Clocks. Ansonia Clock Company. 49,494; re-renewed Feb. 6, 1946. O. G. July 23.

Clocks. Ansonia Clock Company. 49,731; re-renewed Feb. 13, 1946. O. G. July 23.

Clocks. E. Ingraham Company. 422,461; July 23; Serial No. 490,757; published Apr. 16, 1946.

Clocks, Boudoir. Pro-phy-lac-tic Brush Company. 422,462; July 23; Serial No. 490,767; published Apr. 16, 1946.

Clocks, Electric. Hammond Instrument Company. 422,458; July 23; Serial No. 490,488; published Apr. 23, 1946.

Watchcases and watch movements. Jewel Watch Co., Inc. 184,167; renewed May 20, 1944. O. G. July 23.

Watches. Nivada Watch Corporation. 422,453; July 23; Serial No. 490,204; published Apr. 16, 1946.

Watches. Westminster Silver Co., Inc. 422,456; July 23; Serial No. 490,409; published Apr. 16, 1946.

Watches and time pieces. Fabrique d'Horlgerie La Glycine (La Glycine Watch Factory) (Uhrenfabrik La Glycine). 209,007; renewed Feb. 16, 1946. O. G. July 23.

Watches, clocks, and pats thereof. Ernest Borel & Co., S. A. 422,525; July 23.

CLASS 28

Hollow ware, electroplated or silverplated tableware, and electroplated silver-plated flatware, Electroplated. Gorham Manufacturing Company. 54,331; re-renewed June 26, 1946. O. G. July 23.

Hollow ware, flatware, and tableware, Sterling and solid silver. Gorham Mfg. Co. 54,763; re-renewed June 26, 1946. O. G. July 23.

Jewelry. China Overseas. 422,416; July 23; Serial No. 483,513; published Apr. 16, 1946.

Jewelry. Taylor & Co. 422,454; July 23; Serial No. 490,216; published Apr. 16, 1946.

Necklaces, bracelets, brooches, lavallers, etc. Harry Morris Associates. 422,430; July 23; Serial No. 486,057; published Apr. 9, 1946.

Necklaces, bracelets, earrings, Sterling silver. Napier Co. 422,533; July 23.

Necklaces, bracelets, finger rings, etc. Rodé Art Jewelers, Inc. 422,529; July 23.

Pearls and Jewelry, Artificial. E. Wilson. 422,466; July 23; Serial No. 491,443; published Apr. 16, 1946.

Rings, Finger. Joseph L. Herzog & Co. 215,176; renewed July 13, 1946. O. G. July 23.

Rings, Finger. Shiman Bros. & Co., Inc. 422,473; July 23; Serial No. 492,159; published Apr. 23, 1946.

Tableware, Silver-plated flat. Oneida Ltd. 422,451; July 23; Serial No. 489,824; published Apr. 16, 1946.

Watch bands. Consolidated Razor Blade Co., Inc. 422,517; July 23.

CLASS 29

Brushes and brooms, Street. Ox Fibre Brush Company, Inc. 422,393; July 23; Serial No. 420,726; published Apr. 16, 1946.

Brushes, Hair. H. Born. 422,472; July 23; Serial No. 492,126; published Apr. 23, 1946.

CLASS 30

China. Graham & Zenger, Inc. 214,004; renewed June 8, 1946. O. G. July 23.
Chinaware and crockery. Arthur Schiller & Son. 204,600; renewed Oct. 20, 1945. O. G. July 23.

CLASS 32

Chairs, Folding. Louis Rastetter & Sons. 210,070; renewed Mar. 9, 1946. O. G. July 23.

CLASS 33

Jars, perfume bottles, and vials, Cosmetic cream. Illinois Watch Case Co. 422,411; July 23; Serial No. 481,846; published Apr. 30, 1946.

CLASS 34

Lighters, Friction. Union Carbide and Carbon Corporation. 422,459; July 23; Serial No. 490,559; published Apr. 30, 1946.
Lighters operating on gasoline or any other quick igniting fluid, Cigar and cigarette. Packet Company. 422,422; July 23; Serial No. 484,457; published Apr. 30, 1946.
Recuperators and air heaters. Calorizing Company. 209,003; renewed Feb. 16, 1946. O. G. July 23.
Stoves, Oil, gasoline, and gas-burning cooking and heating; liquid fuel-burning lanterns, etc. Coloso, Limited. 422,415; July 23; Serial No. 483,214; published Apr. 30, 1946.

CLASS 35

Inner tubes. India Tire and Rubber Company. 213,881; renewed June 8, 1946. O. G. July 23.

CLASS 36

Records, Mechanically grooved disk. C. W. B. Barger. 422,527; July 23.

CLASS 37

Paper, ledger paper, writing paper, etc., Stencil. Manuel Valladares. 422,394; July 23; Serial No. 469,479; published Apr. 30, 1946.
Paper, sanitary toweling, and crêpe paper, etc., Toilet. Interlake Tissue Mills Co. Ltd. 214,078; renewed June 15, 1946. O. G. July 23.
Tapes and cellulose adhesive tapes, Paper adhesive. International Plastic Corporation. 422,429; July 23; Serial No. 485,774; published Apr. 30, 1946.
Writing sets or secretaries, leather-bound blotting-pads, and leather writing-pads, Combination leather. Gorham Manufacturing Company. 54,597; re-renewed June 26, 1946. O. G. July 23.

CLASS 38

Column, Newspaper. Christian Science Publishing Society. 422,465; July 23; Serial No. 491,312; published Apr. 23, 1946.
Journal, Agricultural. Curtis Publishing Company. 209,129; renewed Feb. 16, 1946. O. G. July 23.
Magazine, Illustrated. Bilbara Publishing Company Inc. 422,413; July 23; Serial No. 482,830; published Oct. 16, 1945.
Magazine relating to television. Bilbara Publishing Company Inc. 422,423; July 23; Serial No. 484,771; published Oct. 16, 1945.
Publication issued periodically. V. Brush. 422,414; July 23; Serial No. 482,918; published Sept. 25, 1945.

CLASS 39

Boots and shoes, Leather and canvas. Geo. E. Keith Company. 51,496; re-renewed Apr. 17, 1946. O. G. July 23.
Dresses and work uniforms, Work. Joy Holder. 422,403; July 23; Serial No. 478,685; published Apr. 30, 1946.
Dresses, blouses, playsuits, etc., Ladies', misses', and girls'. Crest Fabrics Corp. 422,433; July 23; Serial No. 486,355; published Feb. 19, 1946.
Dresses, Women's. Gordon & Lesher Dress Corp. 422,501; July 23.
Heels, Rubber. Essex Rubber Company. 207,928; renewed Jan. 12, 1946. O. G. July 23.
Hosiery. John M. Given Company. 206,846; renewed Dec. 8, 1945. O. G. July 23.
Neckties and knitted scarfs, Knitted. E. Glick. 215,454; renewed July 20, 1946. O. G. July 23.
Overcoats, Men's. D. B. Rosenblatt, Incorporated. 422,477; July 23; Serial No. 492,465; published Apr. 30, 1946.
Suits, jackets, coats, and outer skirts, Women's ready-to-wear. Lilli Ann Company. 422,421; July 23; Serial No. 484,413; published Apr. 30, 1946.
Suits, Men's and young men's. Palmer Clothing Manufacturing Company. 210,092; renewed Mar. 9, 1946. O. G. July 23.
Topcoats, overcoats, and sport coats, Men's. Fashion Park, Inc. 422,503; July 23.
Trousers, suits, and coats, and ladies' skirts, suits, etc., Boys' and men's. Hollywood Trousers, Inc. 422,419; July 23; Serial No. 484,254; published Apr. 30, 1946.
Underwear and knitted outerwear, Men's, boys', and children's. Associated Knitted Outerwear Mills, Inc. 422,444; July 23; Serial No. 488,496; published Apr. 30, 1946.

CLASS 40

Embroideries, Silk. Lion Bros. Co. 54,903; re-renewed July 31, 1946. O. G. July 23.

CLASS 44

Forceps, holders for surgical needles, etc., Haemostatic. Master Surgical Instrument Company. 422,478; July 23; Serial No. 493,503; published Apr. 30, 1946.
Inhalers. Smith, Kline & French Laboratories. 422,428; July 23; Serial No. 485,423; published Apr. 30, 1946.

CLASS 46

Almonds, chocolate-covered raisins and candy, Chocolate-covered. Ohio Confection Company. 422,402; July 23; Serial No. 478,641; published Mar. 20, 1945.
Candies. Breed and Breed. 209,187; renewed Feb. 16, 1946. O. G. July 23.
Candy. J. D. Hamilton. 422,511; July 23.
Candy. Stephen F. Whitman & Son, Inc. 422,480; July 23; Serial No. 493,905; published Apr. 30, 1946.
Canned fish. Westgate Sea Products Co. 422,496; July 23.
Cheese. Bürki & Cie. 211,543; renewed Apr. 13, 1946. O. G. July 23.
Chocolate-covered almonds, raisins, and mints. Chasers, Inc. 422,397; July 23; Serial No. 472,039; published Sept. 11, 1945.
Food, Breakfast. R. G. Leroux. 422,483; July 23; Serial No. 494,090; published Apr. 30, 1946.
Food products. Haas Brothers. 422,532; July 23.
Foods, Frozen. Sterling Point Frosted Foods. 422,450; July 23; Serial No. 489,775; published Apr. 30, 1946.
Fruits and vegetables, Fresh. Kroger Grocery & Baking Company. 422,399; July 23; Serial No. 475,255; published Apr. 2, 1946.
Fruits, Fresh. Fennville Fruit Exchange, Inc. 215,814; renewed July 27, 1946. O. G. July 23.
Fruits, Fresh citrus. J. M. Ingram Fruit Corporation. 422,398; July 23; Serial No. 474,282; published Oct. 31, 1944.
Fruits, Fresh deciduous. E. J. Gilbert. 422,507; July 23.
Grapes and fresh deciduous fruits, Fresh. Bartlett-Heard Land & Cattle Company. 422,523; July 23.
Potatoes, Dehydrated. C. F. Buelow. 422,464; July 23; Serial No. 491,228; published Apr. 30, 1946.
Raisins. I. Podolsky. 422,405; July 23; Serial No. 479,726; published Apr. 30, 1946.
Sauce, sweet relish, French mustard, etc. Pa-Poose Products Co. 422,443; July 23; Serial No. 488,282; published Apr. 30, 1946.
Strawberries. Ponchatoula Farm Bureau Association, Inc. 209,301; renewed Feb. 23, 1946. O. G. July 23.
Syrup and corn syrup, Blend of cane. Hall Grain Company. 422,449; July 23; Serial No. 489,580; published Apr. 30, 1946.
Tomato juice, canned goods, bakery products, etc. A. Klug. 422,471; July 23; Serial No. 491,985; published Apr. 30, 1946.
Vegetables, Fresh. L. V. Antle. 422,404; July 23; Serial No. 479,656; published Apr. 30, 1946.
Vegetables, Fresh. A. S. Kawamura. 422,420; July 23; Serial No. 484,260; published Dec. 25, 1945.
Vegetables, Fresh. R. E. Myers. 422,435; July 23; Serial No. 487,093; published Mar. 26, 1946.
Vegetables, Fresh. H. E. Schreiber & Son. 422,479; July 23; Serial No. 493,831; published Apr. 30, 1946.

CLASS 49

Whisky. Eminence Distillery Co. 55,284; re-renewed Aug. 14, 1946. O. G. July 23.

CLASS 50

Films, Transparent and translucent flexible. Plastic Film Corporation. 422,457; July 23; Serial No. 490,444; published Apr. 30, 1946.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Kispert, Joseph J., Mount Carmel, Conn. Corset. Re. 22,773; July 23.

LIST OF DESIGN PATENTEES

Ayres, Francis L., assignor to Stewart-Warner Corporation, Chicago, Ill. Oil island. 145,243; July 23.
Coro, Inc., assignee: *See*—
Katz, Adolph.
De Jen, Jean, Fairfield, Conn. Illuminating support for hand-held lecture papers or similar article. 145,244; July 23.
De Lemos, John G., Palo Alto, Calif. Combination jigger and bottle opener. 145,245; July 23.
Gelb, Abe, New York, N. Y. Narrow woven fabric. 145,246; July 23.
Hurwitz, Bernard, New York, N. Y. Dress. 145,247; July 23.
Hurwitz, Bernard, New York, N. Y. Dress. 145,248; July 23.
Hurwitz, Bernard, New York, N. Y. Dress. 145,249; July 23.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,250; July 23.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,251; July 23.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,252; July 23.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,253; July 23.
Kaufman, Louis, New York, N. Y. Handbag. 145,254; July 23.
Modern Hygiene, Inc., assignee: *See*—
Stevens, Clifford B.
Monroe, John S.: *See*—
Odiorne, Richard L., and Monroe.
Morris, Nathan K., Asbury Park, N. J. Compact. 145,255; July 23.
Odiorne, Richard L., Yellow Springs, and J. S. Monroe, Springfield, Ohio. Clothesline clamp. 145,256; July 23.
Olszewski, Edward, Detroit, Mich. Picture frame. 145,257; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,258; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,259; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,260; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,261; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Earring or similar article. 145,262; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Earring or similar article. 145,263; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Earring or similar article. 145,264; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Earring or similar article. 145,265; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Pin clip or similar article. 145,266; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Pin clip or similar article. 145,267; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,268; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,269; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Pin clip or similar article. 145,270; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Pin clip or similar article. 145,271; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,272; July 23.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Pin clip or similar article. 145,273; July 23.
Ross, James, Hubbard Woods, Ill. Lamp shade with luminous figures. 145,274; July 23.
Scott, Myron E., Dayton, Ohio. Bottle. 145,275; July 23.
Stevens, Clifford B., Milwaukee, Wis., assignor to Modern Hygiene, Inc., Boston, Mass. Vacuum cleaner casing. 145,276; July 23.
Stewart-Warner Corporation, assignee: *See*—
Ayres, Frances L.
Trautner, Wagn, Onondaga County, N. Y. Clearance lamp. 145,277; July 23.
Trautner, Wagn, Onondaga County, N. Y. Side marker lamp. 145,278; July 23.
Trautner, Wagn, Onondaga County, N. Y. Corner marker light. 145,279; July 23.
Trifari, Krussman & Fishel Inc., assignee: *See*—
Philippe, Alfred.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abell, Henry C., Interlaken, N. J. Oil seal. 2,404,610; July 23.
Accousti, Nicholas J.: *See*—
Thompson, Marvin R., Accousti, and Fisher.
Adel Precision Products Corp., assignee: *See*—
Brant, Walter R., and Chapman.
Chunn, Charles J.
Kehle, Ottmar A.
Robertson, Archibald.
Schmidt, Benjamin F.
Strid, Carl J.
Van Der Werff, Jacob B.
Air Reduction Company, Incorporated, assignee: *See*—
Anderson, James L.
Aktiengesellschaft Fuer Technische Studien, assignee: *See*—
Salzmann, Fritz.
Alien Property Custodian: *See*—
Florian, Ernst, Petersen, and Christian.
Glaser, Alex F. G.
Hasegawa, Takao.
Hoffmann, Ullrich, and Meis.
Maximoff, Alessandro.
Ottenstein, Friedrich.
Prause, Robert.
Schmidt, Rudolf.
Spiess, Georg.
Westerkamp, Hugo.
Zajotti, Adolfo, and Tellini.
American Beauty Products Co., assignee: *See*—
Koch, Carl E.
American Cyanamid Company, assignee: *See*—
Durant, Walter W., and Blann.
American Enka Corporation, assignee: *See*—
Polak, James J., and Jackson.
American Machine & Foundry Company, assignee: *See*—
Jensen, Thormod.
American Steel and Wire Company of New Jersey, The, assignee: *See*—
Bannerman, Gordon H.
Anderson, Bjorn, Maplewood, N. J., assignor to Celanese Corporation of America. Transparent plastic material. 2,404,422; July 23.
Anderson, Harold N., Rocky River, Ohio. Forging press. 2,404,351; July 23.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Method and apparatus for protecting burners. 2,404,423; July 23.
Andron, Philip, Brooklyn, N. Y., and H. Krichman, Bayonne, N. J. Carbonator. 2,404,679; July 23.
Aneshansel, Carl W., Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y. Printing ink. 2,404,680; July 23.
Aresee Company Inc., assignee: *See*—
Chandler, Daniel L.
Armstrong, George C., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic overload relay. 2,404,352; July 23.
Armstrong Siddeley Motors Limited, assignee: *See*—
Heppner, Fritz A. M.
Ash, Harry K., Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Removable coating composition. 2,404,353; July 23.
Ashbaugh, Bernard D., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Plastic slug forming and feeding mechanism. 2,404,559; July 23.
Ashbaugh, Bernard D., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Booster ram adjustment. 2,404,611; July 23.
Aspinook Corporation, The, assignee: *See*—
Carlsen, Viggo, and Heinrich.
Carlsen, Viggo, Heinrich, and Ballou.
Associated Spring Corporation, assignee: *See*—
Lewis, James E.
Atkins, Carl E., Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Secret signaling system. 2,404,354; July 23.
Atkins, Carl E., Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Secret signaling system. 2,404,355; July 23.
Atkins, Carl E., Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Secret signaling system. 2,404,356; July 23.
Automatic Electric Laboratories, Inc., assignee: *See*—
Taylor, Reginald, Baker, and Corner.
Wood, Fredric E.
Baack, William R., Long Island City, assignor to Coston Supply Company, Inc., New York, N. Y. Lifesaving device. 2,404,681; July 23.
Bagshaw, Charles M., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Counter pasting machine. 2,404,345; July 23.
Baker, George T.: *See*—
Taylor, Reginald, Baker, and Corner.
Baker, Lewis F., Southport, Conn. Plug and socket connector. 2,404,682; July 23.
Baker Manufacturing Company, The, assignee: *See*—
Washbond, Harry H.
Balla, John, Sr., Schenectady, N. Y. Machine for coiling metal stock. 2,404,424; July 23.
Ballou, Dona L.: *See*—
Carlsen, Viggo, Heinrich, and Ballou.
Bambas, Louis L., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Sulphones and preparing same. 2,404,560; July 23.
Bannerman, Gordon H., Hamden, Conn., assignor to The American Steel and Wire Company of New Jersey. Torpedo net. 2,404,612; July 23.
Bannow, Rudolph F., Easton, Conn. Adapter with swivel joint. 2,404,561; July 23.
Barishman, Harry, New York, N. Y. Dental device. 2,404,683; July 23.
Barishman, Harry, New York, N. Y. Dental tray. 2,404,684; July 23.
Barnes, Lewis C., Rutland, Vt., and R. B. Holt, Los Angeles, Calif., assignors to The Howe Scale Company, Rutland, Vt. Recording scale. 2,404,562; July 23.
Bartimore, Roy E., Milwaukee, Wis. Glove turning apparatus. 2,404,346; July 23.
Bassichis, William M., Cleveland Heights, assignor to Convenient Carrier Corporation, Cleveland, Ohio. Bottle carrier grill. 2,404,685; July 23.
Baumgarten, Paul.: *See*—
Udall, Frederick M., and Baumgarten.
Beanblossom, Joy E., Niagara Falls, and R. H. Kimball, Lewiston, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of alkyl mercaptans. 2,404,425; July 23.
Bechtold, Max F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated methyl methacrylate polymer. 2,404,357; July 23.
Bechtold, Max F., and P. S. Pinkney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Surface characteristics of solid organic polymers. 2,404,426; July 23.
Belden, Albert G., C. G. Flygare, and O. E. Hill, Worcester, Mass., assignors to Norton Company. Crankshaft grinding machine. 2,404,613; July 23.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bostwick, Lee G.
Fritts, Morris.
Harry, William R.
Lovell, Clarence A., Parkinson, and Weber.
Mason, Warren P.
Belmont Radio Corporation, assignee: *See*—
Plensler, Alexander W.
Bendix Aviation Corporation, assignee: *See*—
Rylsky, Gregory V., and Schule.
Berliner, Martin, assignor to Bermat Products Corp., New York, N. Y. Writing device. 2,404,563; July 23.
Bermat Products Corp., assignee: *See*—
Berliner, Martin.
Bethlehem Steel Company, assignee: *See*—
Stoffiet, Harry F.
Bible, Walter E., Denver, Colo., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Vacuum cleaning system. 2,404,358; July 23.
Biederman, Joseph B., Cincinnati, Ohio. Respiratory filtering device. 2,404,686; July 23.
Blέth, Tom C., Goteborg, Sweden. Apparatus for cleaning of flue gases. 2,404,347; July 23.
Bird, Anthony, assignee, et al.: *See*—
Plebanek, Leonard Z.
Blann, William A.: *See*—
Durant, Walter W., and Blann.
Bloomfield, Samuel, Wichita, Kans. Expansible jaw screw driver. 2,404,427; July 23.
Boehlke, William F., Los Angeles, Calif. Electric swivel connector. 2,404,564; July 23.

Bond, Marion E., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Frequency discriminator. 2,404,359; July 23.
Bordon Mfg. Co., Inc., assignee: *See*—
Donnelly, Thomas S., Jr.
Borst, David W., Schenectady, N. Y., assignor to General Electric Company. Electric control circuit. 2,404,614; July 23.
Bosomworth, George P., Akron, Ohio, assignor to The Firestone Tire & Rubber Company. Apparatus for making sheet material. 2,404,582; July 23.
Bostwick, Lee G., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tunable underwater signal source. 2,404,360; July 23.
Botany Worsted Mills, assignee: *See*—
Smith, John S.
Bowser, Guy, Pinellas Park, Fla. Insect electrocutor. 2,404,687; July 23.
Boyd, Chester M., Silver Spring, assignor to Engineering and Research Corporation, Riverdale, Md. Brake for hydraulic motors. 2,404,615; July 23.
Boyd, Landon B., La Porte, Ind. Internal-combustion engine piston. 2,404,348; July 23.
Bradbury, Donald, Prospect Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine apparatus. 2,404,428; July 23.
Bramberry, Harry M., Oak Park, Ill. Piston ring. 2,404,616; July 23.
Brant, Walter R., and H. G. Chapman, Jr., Glendale, Calif., assignors to Adel Precision Products Corp. Valve. 2,404,349; July 23.
Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Rotameter. 2,404,361; July 23.
Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Railway journal box. 2,404,429; July 23.
Brogdex Company, assignee: *See*—
Harlow, Orman M.
Brooks, Joseph A., Pittsburgh, Pa. Hanging suport for fountain syringes. 2,404,430; July 23.
Brown and Sharpe Manufacturing Company, assignee: *See*—
Hirsch, George B.
Bruson, Herman A., and G. B. Butler, assignors to Röhm & Haas Company, Philadelphia, Pa. Readily combustible plastic material. 2,404,688; July 23.
Budlane, Stanley J., assignor to Stewart-Warner Corporation, Chicago, Ill. Heating apparatus. 2,404,617; July 23.
Bumstead, Ralph W., Westfield, N. J., assignor to Radio Corporation of America. Telegraphy. 2,404,565; July 23.
Bushong, Robert J.: *See*—
Halby, Edwin G., and Bushong.
Butler, George B.: *See*—
Bruson, Herman A., and Butler.
Buxton, Loran O.: *See*—
Dryden, Charles E., and Buxton.
Buxton, Loran O., Newark, assignor to National Oil Products Company, Harrison, N. J. Fat-soluble vitamin fractionation. 2,404,618; July 23.
Calfee, John D.: *See*—
Kraus, Charles A., and Calfee.
California Research Corporation, assignee: *See*—
Eldredge, Kenneth R., and Davis.
Calumet and Hecla Consolidated Copper Company, assignee: *See*—
Hill, Walter P.
Canter, Ralph, and H. D. Geyer, Dayton, Ohio, assignors, to General Motors Corporation, Detroit, Mich. Water repellant coating material. 2,404,431; July 23.
Carlsen, Viggo, Norwich, A. Heinrich, Taftville, and D. L. Ballou, assignors to The Aspinook Corporation, Jewett City, Conn. Continuous printing textiles and the like and apparatus therefor. 2,404,350; July 23.
Carlsen, Viggo, Norwich, and A. Heinrich, Taftville, assignors to The Aspinook Corporation, Jewett City, Conn. Doctor blade. 2,404,689; July 23.
Carlson, Charles N., assignor of forty-five percent to A. L. Simpkins, Glasgow, Mont. Trailer hitch. 2,404,362; July 23.
Carnegie-Illinois Steel Corporation, assignee: *See*—
Elliott, Edwin C.
Wells, Joseph H., and Wilson.
Carson, Robert H., Arlington, Mass., assignor to the Government of the United States. Floor construction. 2,404,471; July 23.
Casalino, Joseph, Forest Hills Gardens, Long Island, N. Y., assignor to Dieplast Corporation, New York, N. Y. Hand mirror mount. 2,404,472; July 23.
Caserta, Michele, Detroit, Mich., assignor to Thompson Products, Inc. Shaft seal. 2,404,690; July 23.
Cashman, Aloysius F.: *See*—
Lieber, Eugene, and Cashman.
Celanese Corporation of America, assignee: *See*—
Andersen, Bjorn.
Chandler, Daniel L., Salem, assignor to Aresee Company, Inc., Swampscott, Mass. Ventilator mechanism for automobile doors. 2,404,432; July 23.
Chapman, Edward L., assignee: *See*—
Statia, Edwin V., Sr.
Chapman, Harvey G., Jr.: *See*—
Brant, Walter R., and Chapman.
Charch, William H., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer compositions and their preparation. 2,404,726; July 23.
Chevigny, Georges P., New York, N. Y., assignor to Federal Telephone and Radio Corporation. Electron discharge device. 2,404,363; July 23.
Chicago Railway Equipment Company, assignee: *See*—
Wasberg, Axel.
Christian, Manfred: *See*—
Florian, Ernst, Petersen, and Christian.
Christiansen, Walter G., Glen Ridge, and S. E. Harris, Nutley, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Chemical compounds. 2,404,691; July 23.
Christman, Peter J., Green Bay, Wis. Facing and boring device. 2,404,433; July 23.
Chunn, Charles J., Sierra Madre, assignor to Adel Precision Products Corp., Burbank, Calif. Cushioned clip. 2,404,473; July 23.
Church, Walter L., Houston, Tex. Packer anchor. 2,404,692; July 23.
Clark, Joseph A., South Bend, Ind. Game board. 2,404,693; July 23.
Clark, Joseph L., Wilmington, Del., C. M. Linden, Chattanooga, Tenn., and C. J. Obert, Bessemer, Ala., assignors to Hercules Powder Company, Wilmington, Del. Apparatus for packing explosive in cartridges. 2,404,434; July 23.
Cleveland Pneumatic Tool Company, The, assignee: *See*—
Hoffar, Henry S.
Coats, Gilbert E., Fort Dodge, Iowa. Loading machine. 2,404,619; July 23.
Coben, William S., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tire construction. 2,404,579; July 23.
Cohen, Morris, Kansas City, Mo., and G. A. Jorgenson, Chicago, Ill., assignors to Interstate Bakeries Corporation, Kansas City, Mo. Particle apportioning device. 2,404,694; July 23.
Coleman, Ralph A., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of aryl sulphenamides. 2,404,695; July 23.
Colley, Russell S., Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Partitioned inflatable suit. 2,404,567; July 23.
Collins, Henry M.: *See*—
Morrison, George O., and Collins.
Collins, Robert B., Downers Grove, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for measuring carbonaceous deposits. 2,404,474; July 23.
Convenient Carrier Corporation, assignee: *See*—
Bassichis, William M.
Edgerton, Arthur H.
Cooley, Austin G., assignor to Times Telephoto Equipment Inc., New York, N. Y. Telephoto system. 2,404,566; July 23.
Cooper, Benjamin, New York, N. Y., and A. F. Hohmann, Teaneck, N. J.; said Hohmann assignor to said Cooper. Cigarette lighter. 2,404,435; July 23.
Cooper Development Company, assignee: *See*—
Cooper, Thomas B., and Schulz.
Cooper, Joseph H., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Control of flash welding. 2,404,620; July 23.
Cooper, Thomas B., Philadelphia, Pa., and W. H. Schulz, Weehawken, N. J., assignors to Cooper Development Company, New York, N. Y. Apparatus for recovering metals. 2,404,364; July 23.
Corner, Arthur C.: *See*—
Taylor, Reginald, Baker, and Corner.
Coston Supply Company, assignee: *See*—
Baack, William R.
Crader, William J.: *See*—
Sargent, Frederick L., and Crader.
Crawford, Chester C., El Cerrito, and D. L. Yabroff, Alameda, assignors to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,404,436; July 23.
Crown Cork & Seal Company, Inc., assignee: *See*—
Rolker, Edwin.
Davidson, Arthur C., Chicago, Ill. Railway truck spring brake. 2,404,475; July 23.
Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Grease strainer. 2,404,621; July 23.
Davis, Vincent C.: *See*—
Eldredge, Kenneth R., and Davis.
Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Communication and recognition system. 2,404,696; July 23.
Deere & Company, assignee: *See*—
Griff, Robert D.
Desch, Joseph R., Oakwood, and R. E. Mumma, assignors to The National Cash Register Company, Daytor, Ohio. Calculating device. 2,404,697; July 23.
Devaney, Lawrence W.: *See*—
Veitman, Preston L., and Devaney.
Devirian, Philip S.: *See*—
Hait, James M., and Devirian, and Rankin.

Dieplast Corporation, assignee: *See*—
Casalino, Joseph.
Doan, Richard L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well logging apparatus. 2,404,622; July 23.
Dodge, Adiel Y., Rockford, Ill. Torque transmitting mechanism. 2,404,623; July 23.
Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Voltage regulator for electron discharge devices. 2,404,624; July 23.
Donnelly, Thomas S., Jr., assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,404,437; July 23.
Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Automatic frequency control. 2,404,568; July 23.
Dreyling, Alfred, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Insect repellent composition. 2,404,698; July 23.
Druhot, Joseph J., Fort Wayne, Ind. Bottle carrier. 2,404,625; July 23.
Dryden, Charles E., East Orange, and L. O. Buxton, Newark, assignors to National Oil Products Company, Harrison, N. J. Production of fat-soluble vitamin ester concentrates. 2,404,365; July 23.
Duffy, Charles H., Miami, Fla. Masking attachment for photographic cameras. 2,404,366; July 23.
Dunlop Tire and Rubber Corporation, assignee: *See*—
McChesney, Cuyler S.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bechtold, Max F.
Bechtold, Max F., and Pinkney.
Charch, William H.
Dreyling, Alfred.
Finzel, Theron G.
Hansley, Virgil L.
Harmon, Jesse.
Houtz, Ray C.
Latham, George H.
Merner, Richard R.
Rogers, Arthur O.
Vinal, Leroy W.
Durant, Walter W., Old Greenwich, and W. A. Blann, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Water purification. 2,404,367; July 23.
Early, Paul F., New Carlisle, assignor to Standard Aircraft Products, Inc., Dayton, Ohio. Electric lamp. 2,404,476; July 23.
Eastman, Du Bois: *See*—
Richter, Charles, and Eastman.
Eastman Kodak Company, assignee: *See*—
Utermohlen, William P., Jr.
Edgerton, Arthur H., Rocky River, assignor to Convenient Carrier Corporation, Cleveland, Ohio. Bottle carrier. 2,404,699; July 23.
Elastic Stop Nut Corporation of America, assignee: *See*—
Hallock, Robert L.
Meyerhoff, John R.
Eldredge, Kenneth R., Berkeley, and V. C. Davis, Piedmont, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Regenerative detonation detector. 2,404,569; July 23.
Electrical Engineering and Manufacturing Corporation, assignee: *See*—
Hoover, Vaino A.
Electro-Chemical Engineering Corporation, assignee: *See*—
Starr, James H., and Goodnow.
Elliott, Edwin C., Crafton, Pa., assignor to Carnegie-Illinois Steel Corporation. Structural grating. 2,404,570; July 23.
Ellis, Robert P., York, Pa. Toy. 2,404,477; July 23.
Engemann, Herbert H., Cleveland Heights, Ohio. Self cleaning and lubricating valve. 2,404,478; July 23.
Engineering and Research Corporation, assignee: *See*—
Boyd, Chester M.
Lane, Frank B.
Ensign, Elbert E.: *See*—
Newkirk, Daniel L., and Ensign.
Esch, Gladden H., Dearborn, Mich. Winch. 2,404,368; July 23.
Essick, Bryant, Los Angeles, Calif. Evaporative cooler. 2,404,479; July 23.
Evans, Theodore W., Oakland, assignor to Shell Development Company, San Francisco, Calif. Manufacture of olefin oxides. 2,404,438; July 23.
Evans, William J. R., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of vinyl ethers. 2,404,700; July 23.
Federal Telephone and Radio Corporation, assignee: *See*—
Chevigny, Georges P.
Herbst, John A.
Pickles, Sidney B.
Poyio, Michael C.
Smith, Archibald D., Jr.
Felsecker, John J., Calumet City, Ill., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment. 2,404,701; July 23.
Fernald, Mark E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Article-positioning mechanism. 2,404,480; July 23.
Finch, William G. H., Newtown, Conn. Synchronizing mechanism. 2,404,571; July 23.
Finck, Joseph L., Brooklyn, N. Y. Lathing material. 2,404,481; July 23.
Finzel, Theron G., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing polymeric solutions. 2,404,728; July 28.
Fiori, John, Poughkeepsie, N. Y. Fishing reel. 2,404,702; July 23.
Firestone Tire & Rubber Company, The, assignee: *See*—
Bosomworth, George P.
Coben, William S.
Hanson, Elmo E., and Park.
Liska, John W.
Liska, John W., and Grover.
McCollister, William H.
Schmidt, Ernest.
Van Schwartz, Zolly C.
Workman, Clarence E.
Fischer & Porter Company, assignee: *See*—
Brewer, Nathaniel.
Fisher, Virginia: *See*—
Thompson, Marvin R., Accousti, and Fisher.
Florian, Ernst, and H. Petersen, Berlin-Reinickendorf, and M. Christian, Berlin-Dahlem, Germany; vested in the Alien Property Custodian. Variable pitch air propeller. 2,404,703; July 23;
Flygare, Carl G.: *See*—
Belden, Albert G., Flygare, and Hill.
Food Machinery Corporation, assignee: *See*—
Hait, James M.
Hait, James M., Devirian, and Rankin.
Rankin, Dan R., and Reynolds.
Ford Motor Company, assignee: *See*—
Newkirk, Daniel L., and Ensign.
Roberts, Albert O., and Wharam.
Roeder, Dale, and Nador.
Foster, Harry C., Alton, Ill., assignor to Olin Industries, Inc. Indexing mechanism. 2,404,369; July 23.
Fowler, Earl W.: *See*—
Schoenfeld, Kurt F. E., and Fowler.
Fowlkes, William, Casper, Wyo. Flower and plant container. 2,404,370; July 23.
Franclare Company, assignee: *See*—
Miller, Frank W.
French, Henry C., Elm Grove, assignor to The Heil Co., Milwaukee, Wis. Two-wheeled cable operated rear dump scraper. 2,404,482; July 23.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of motor-fuel hydrocarbons. 2,404,483; July 23.
Fritts, Morris, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spring holder for cantilever elements. 2,404,385; July 23.
Fuchs, Charles F.: *See*—
Kharasch, Morris S., and Fuchs.
Fyler, George W., Stratford, Conn., assignor to General Electric Company. Noise limiting circuit. 2,404,626; July 23.
Galvin Manufacturing Corporation, assignee: *See*—
Bond, Marion E.
Gaver, Kenneth M., assignor, by mesne assignments, to The Ohio State University Research Foundation, Columbus, Ohio. Flavoring materials for gelatins. 2,404,763; July 23.
Gehrenbeck, Gilbert B.: *See*—
Stephens, Henry N., Gehrenbeck, and Guthrie.
Geigy, J. R., A. G., assignee: *See*—
Martin, Henry, and Häfliger.
General Electric Company, assignee: *See*—
Borst, David W.
Dome, Robert B.
Fyler, George W.
Hausler, George M.
Leigh, Henry H., and Walter.
Livingston, Orrin W.
Robinson, Arthur W., Jr.
Savage, Robert H.
Tillman, John E.
General Motors Corporation, assignee: *See*—
Brittain, Richard J., Jr.
Canter, Ralph, and Geyer.
Gettelman, Fredrick, Milwaukee, Wis. Double walled container. 2,404,484; July 23.
Geyer, Harvey D.: *See*—
Canter, Ralph, and Geyer.
Glaser, Alex F. G., Blimbing, Java, Netherlands East Indies; vested in the Alien Property Custodian. Fluid turbine. 2,404,371; July 23.
Gleisner, Walter J., assignor to W. C. Ritchie and Company, Chicago, Ill. Receptacle base. 2,404,485; July 23.
Goldberg, Abraham A., Miami, Fla. Light amplifying attachment for neon tubes. 2,404,627; July 28.
Goodnow, Edward A.: *See*—
Starr, James H., and Goodnow.

Goodrich, B. F., Company, The, assignee: *See*—
Colley, Russel S.
Government of the United States: *See*—
Carson, Robert H.
Graetz, Kermit, Verona N. J. Toy ski jumper. 2,404,572; July 23.
Graf, Willi, assignor to Maag-Zahnrader und-Machinen Aktiengesellschaft, Zurich, Switzerland. Gear grinding machine. 2,404,573; July 23.
Graver Tank & Mfg. Co., Inc., assignee: *See*—
Felsecker, John J.
Grenko, John D., and L. R. Strawn, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Polmerization of hydrocarbons. 2,404,628; July 23.
Griff, Robert D., Rock Island, assignor to Deere & Company, Moline, Ill. Beet loader. 2,404,629; July 23.
Griffiths, Francis T., Gravesend, assignor to W. T. Henley's Telegraph Works Company Limited, Dorking, England. Extrusion machine. 2,404,630; July 23.
Gronemeyer, Erich, Pompton Plains, assignor to Mack Molding Company, Incorporated, Wayne, N. J. Molding die and removing molded articles therefrom. 2,404,631; July 28.
Grover, Frank S.: *See*—
Liska, John W., and Grover.
Guth, Stern & Co., Inc., assignee: *See*—
Lippincott, Joshua G.
Guthrie, Donald R.: *See*—
Stephens, Henry N., Gehrenbeck, and Guthrie.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Compartmented fiberboard egg case. 2,404,704; July 23.
H-P-M Development Corporation, assignee: *See*—
Ashbaugh, Bernard D.
Häfliger, Franz: *See*—
Martin, Henry, and Häfliger.
Hait James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian propulsion mechanism. 2,404,486; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian propulsion mechanism. 2,404,487; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian propulsion mechanism. 2,404,488; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,404,489; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian propulsion mechanism. 2,404,490; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian steering mechanism. 2,404,491; July 23.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,404,492; July 23.
Hait, James M., San Gabriel, and P. S. Devirian, and D. R. Rankin, Los Angeles, assignors to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,404,493; July 23.
Halby, Edwin G., and R. J. Bushong, assignors to The Marion Steam Shovel Company, Marion, Ohio. Rotary seal. 2,404,494; July 23.
Hallock, Robert L., Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union, N. J. Fastening device. 2,404,372; July 23.
Hallum, Robert K., Brownwood, Tex. Handle. 2,404,495; July 23.
Hammond, John A. S., Glenbrook, Conn., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Apparatus for catalytic operations. 2,404,574; July 23.
Handelan, Daniel, assignor of one-half to E. H. Wilson, Minneapolis, Minn. Combination heater and refuse burner. 2,404,705; July 23.
Hansen, Hans H., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Electric resistance welding apparatus. 2,404,632; July 23.
Hansley, Virgil L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer products. 2,404,716; July 23.
Hanson, Elmo E., Akron, and C. R. Park, Silver Lake Village, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Fuel tank. 2,404,766; July 23.
Harlow, Orman M., Anaheim, assignor to Brogdex Company, Pomona, Calif. Commodity elevating and sampling apparatus. 2,404,373; July 23.
Harmon, Jesse, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyfluorinated cycloparaffins and producing them. 2,404,374; July 23.
Harmon, Jesse, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluorination. 2,404,706; July 23.
Harris, Sidney E.: *See*—
Christiansen, Walter G., and Harris.
Harry, William R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical device. 2,404,375; July 23.
Hasegawa, Takao, Osaka, Japan; vested in the Alien Property Custodian. Metal sawing machine. 2,404,707; July 23.
Haughton Elevator Company, The, assignee: *See*—
Turner, Floyd F.
Hausler, George M., Ballston Lake, N. Y., assignor to General Electric Company. Switch operating mechanism. 2,404,633; July 23.
Hayes, Harvey C., Washington, D. C. Sound receiver. 2,404,764; July 23.
Hazeltine Research, Inc., assignee: *See*—
Lawrance, Richard B.
Heil Co., The, assignee: *See*—
French, Henry C.
Heinrich, Alwin: *See*—
Carlsen, Viggo, and Heinrich.
Carlsen, Viggo, Heinrich, and Ballou.
Henderson, George C., Detroit, Mich. Monorail trolley. 2,404,376; July 23.
Henin, Benjamin P., Bayonne, N. J. Measuring and dispensing attachment for containers. 2,404,496; July 23.
Henley's, W. T., Telegraph Works Company Limited, assignee: *See*—
Griffiths, Francis T.
Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Jet propulsion plant. 2,404,767; July 23.
Herbst, John A., Oradell, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Adjustment device. 2,404,377; July 23.
Hercules Powder Company, assignee: *See*—
Clark, Joseph L., Linden, and Obert.
Hertel, Kenneth L., assignor to University of Tennessee Research Corporation, Knoxville, Tenn. Sampling device. 2,404,708; July 23.
Higgins Industries, Inc., assignee: *See*—
Monaghan, Henry W.
Hill, Ebenezer, Stamford, Conn. Calculating instrument. 2,404,709; July 23.
Hill, Oiva E.: *See*—
Belden, Albert G., Flygare, and Hill.
Hill, Walter P., Detroit, assignor to Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Manufacturing finned tubes with support engaging bearing portions. 2,404,575; July 23.
Hill, William H., and J. H. F. Veltman, Mount Lebanon, assignors, by mesne assignments, to Koppers Company, Incorporated, Pittsburgh, Pa. Prevention of formation of colors in thiocyanates. 2,404,576; July 23.
Hirsch, George B., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Driving and control mechanism. 2,404,439; July 23.
Hitchcock, Stanley I., London, England. Permanent magnet structure. 2,404,710; July 23.
Hodshon, Alfred E., Bucks County, assignor to John B. Stetson Company, Philadelphia, Pa. Manufacturing felt hats. 2,404,634; July 23.
Hoffar, Henry S., Vancouver, British Columbia, Canada, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Antifriction worm drive. 2,404,378; July 23.
Hoffman Specialty Co., assignee: *See*—
McClain, Clifford H.
Roche, Austin O., Jr.
Hoffmann, Ullrich, and H. Meis, Marl, Kreis Recklinghausen, Germany; vested in the Alien Property Custodian. Polymerization products from aromatic carbonyl compounds and aromatic vinyl compounds. 2,404,711; July 23.
Hohmann, Albert F.: *See*—
Cooper, Benjamin, and Hohmann.
Hollingsworth, R. Lee, Riverhead, N. Y., assignor to Radio Corporation of America. Gain control circuit for radiotelegraph. 2,404,712; July 23.
Holm, Carl H., Marion, Ky., assignor of twelve and one-half per cent to C. W. Lothrop, Riverside, Calif., ten per cent to W. B. Pierce, Coral Gables, Fla., twelve and one-half per cent to N. Pierce, Chicago, Ill., sixty-five per cent to himself. Torpedo counter mining device. 2,404,440; July 23.
Holt, Raymond B.: *See*—
Barnes, Lewis C., and Holt.
Hooker Electrochemical Company, assignee: *See*—
Beanblossom, Joy E., and Kimball.
Osborne, Sidney G., and Mitchell.
Hoover Company, The, assignee: *See*—
Bible, Walter E.
Hoover, Vaino A., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. Sealing driving motors of submersible pumps. 2,404,635; July 23.
Hopkins, Nevil M., deceased; R. B. Hopkins, executor, assignor to R. B. Hopkins, New York, N. Y. Rendering a bomb inactive. 2,404,441; July 23.
Hopkins, Raymonde B., assignee: *See*—
Hopkins, Nevil M.
Hopkins, Raymonde B., executor: *See*—
Hopkins, Nevil M.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing polymeric solutions. 2,404,713; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of solutions. 2,404,717; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dissolving of polymers. 2,404,718; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acrylonitrile polymer solutions. 2,404,719; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer products. 2,404,720; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer products and producing same. 2,404,721; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acrylonitrile polymer solutions. 2,404,722; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing solutions of polymers. 2,404,724; July 23.

Houtz, Ray C., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dissolving of polymers. 2,404,727; July 23.

Howe Scale Company, The, assignee: *See*— Barnes, Lewis C., and Holt.

Humphrey, Walter E., assignor to Pennsylvania Rubber Company, Jeannette, Pa. Vulcanizing mold and operation. 2,404,636; July 23.

Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Water toy. 2,404,729; July 23.

Hutchings, Herschel, Lubbock, Tex. Agricultural tractor. 2,404,442; July 23.

Hydraulic Development Corp., Inc., The, assignee: *See*— Ashbaugh, Bernard D.

Imhof, Herman A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,404,497; July 23.

Imperial Chemical Industries Limited, assignee: *See*— Evans, William J. R.

Interchemical Corporation, assignee: *See*— Ash, Harry K.

Interstate Bakeries Corporation, assignee: *See*— Cohen, Morris, and Jorgenson.

Ipatieff, Vladimir N.: *See*— Schmerling, Louis, and Ipatieff.

Ipatieff, Vladimir N., and G. S. Monroe, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Production of toluene. 2,404,498; July 23.

Irving, Norman B., Philadelphia, Pa. Skid brake. 2,404,443; July 23.

Iverson, John O., assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of hydrocarbons. 2,404,499; July 23.

Jackson, Alexis, Westport, Conn., assignor to V. S. Makaroff, New York, N. Y. Lifting jack. 2,404,577; July 23.

Jackson, Arthur L.: *See*— Polak, James J., and Jackson.

James, Jules, U. S. Navy. Sight director. 2,404,379; July 23.

Jensen, Thormod, Laurelton, N. Y., assignor to American Machine & Foundry Company. Vertical mixer. 2,404,380; July 23.

Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Trimming mechanism. 2,404,500; July 23.

Johansson, Sven G., Cranford, and H. C. Siechta, Plainfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Soldering apparatus. 2,404,730; July 23.

Johnson, Ross H., Indianapolis, Ind. Making insoles. 2,404,731; July 23.

Jolly, Carl H., U. S. Navy. Arresting hook. 2,404,381; July 23.

Jones, Lloyd B., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Cushioning draft gears and the like. 2,404,637; July 23.

Jorgenson, Gerald A.: *See*— Cohen, Morris, and Jorgenson.

Joy Manufacturing Company, assignee: *See*— Simmons, Leon E.

Kear, Frank G., assignor to Washington Institute of Technology, Inc., Washington, D. C. Radio beacon system. 2,404,501; July 23.

Keet, Gabriel C. E., Florida, Transvaal, Union of South Africa. Devices for marking fabrics. 2,404,638; July 23.

Kehle, Ottmar A., Van Nuys, Calif., assignor to Adel Precision Products Corp. Valved pump piston assembly. 2,404,502; July 23.

Kharasch, Morris S., and C. F. Fuchs, Chicago, Ill., assignors to Eli Lilly and Company, Indianapolis, Ind. Preparation of amino acids from their salts. 2,404,503; July 23.

Kimball, Richard H.: *See*— Beanblossom, Joy E., and Kimball.

Klein, Robert A., New York, assignor of one-half to A. Kraus, Brooklyn, N. Y. Fruit cutter and squeezer. 2,404,382; July 23.

Klose, Milton, Manitowoc, Wis. Rotary lawn trimmer. 2,404,504; July 23.

Knecht, Margaret P., Muncie, Ind. Baby supporter. 2,404,505; July 23.

Koch, Carl E., assignor to American Beauty Products Co., Chicago, Ill. Drying apparatus. 2,404,732; July 23.

Koppers Company, Incorporated, assignee: *See*— Hill, William H., and Veltman.

Kornblutt, Hyman, Brooklyn, N. Y. Guide wheel arrangement. 2,404,383; July 23.

Kraus, Abraham, assignee: *See*— Klein, Robert A.

Kraus, Charles A., Providence, R. I., and J. D. Calfee, Westfield, N. J., assignors to Standard Oil Development Company. Isomerization process using metal halide complexes. 2,404,444; July 23.

Krichman, Harold: *See*— Andron, Philip, and Krichman.

Kuenstler, Walter E., Cliffside Park, N. J. Crystal. 2,404,445; July 23.

Kurkjian, Yervant H., Clifton, N. J. Self-supporting pessary. 2,404,384; July 23.

Lacey-Webber Co., assignee: *See*— Siemers, Eric.

Lane, Frank B., College Park, assignor to Engineering and Research Corporation, Riverdale, Md. Means to turn rotatable structures. 2,404,639; July 23.

La Plant-Choate Manufacturing Co., Inc., assignee: *See*— Moran, Edward V.

Larson, Alvin W., assignee: *See*— Porter, Edward.

Latham, George H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer products. 2,404,714; July 23.

Lawrance, Richard B., Kingston, Mass., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Ultra high frequency signal-translating apparatus. 2,404,640; July 23.

Leedy, Jesse, and L. Patrick, Lima, Ohio. Smoker's pipe. 2,404,733; July 23.

Leigh, Henry H., and G. E. Walter, Scotia, N. Y., assignors to General Electric Company. Control system. 2,404,641; July 23.

Lenahan, John E., Cornwall-on-Hudson, N. Y. Apparatus for handling recumbent persons. 2,404,734; July 23.

Levine, Joseph, Brooklyn, N. Y., and R. E. Wells, Sheridan, Wyo. Device to aid teaching of automatic radio compass. 2,404,386; July 23.

Lewis, James E., Corry, Pa., assignor to Associated Spring Corporation, Bristol, Conn. Roller bearing retainer. 2,404,642; July 23.

Libby-Owens-Ford Glass Company, assignee: *See*— Murray, John A., and Metzger.

Lieber, Eugene, West New Brighton, Staten Island, N. Y., and A. F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company. Lubricant additives and preparation thereof. 2,404,446; July 23.

Lilly, Eli, and Company, assignee: *See*— Kharasch, Morris S., and Fuchs.

Linden, Carlyle M.: *See*— Clark, Joseph L., Linden, and Obert.

Lindgren, Gust, Youngstown, Ohio. Toy vehicle. 2,404,506; July 23.

Link, Harold A., assignee: *See*— Link, Oscar E.

Link, Oscar E., Woodstock, Ill., assignor of one-third to H. A. Link, Rochester, Ind. Stud and bolt-cleaning brush. 2,404,507; July 23.

Lippincott, Joshua G., Scarsdale, N. Y., assignor to Guth, Stern & Co., Inc. Flashlight construction. 2,404,735; July 23.

Liska, John W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Multiple chamber fluid container. 2,404,578; July 23.

Liska, John W., Stow, and F. S. Grover, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Bending modulus test apparatus. 2,404,584; July 23.

Livingston, Orrin W., Scotia, N. Y., assignor to General Electric Company. Electronic electroresponsive apparatus. 2,404,643; July 23.

Loewe, Bernhard, Yonkers, N. Y., now by judicial change of name B. Lowe. Control of electric devices. 2,404,644; July 23.

Loewer, Henry F., Rochester, N. Y., assignor to United Last Company, Portland, Maine. Last. 2,404,508; July 23.

Long, Loren M., assignor to Parke, Davis & Company, Detroit, Mich. Hydantoins and obtaining the same. 2,404,509; July 23.

Long, Loren M., assignor to Parke, Davis & Company, Detroit, Mich. Hydantoins and obtaining the same. 2,404,510; July 23.

Lothrop, Clarence W., assignee, et al.: *See*— Holm, Carl H.

Lovell, Clarence A., and D. B. Parkinson, Maplewood, N. J., and B. T. Weber, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical computing system. 2,404,387; July 23.

Lowe, Bernard: *See*— Loewe, Bernhard.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,404,388; July 23.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,404,389; July 23.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,404,390; July 23.

Maag-Zahnrader und-Maschinen Aktiengesellschaft, assignee: *See*— Graf, Willi.

MacClymont, David B.: *See*— Marancik, Joseph V., and MacClymont.

Mack Molding Company, Incorporated, assignee: *See*— Gronemeyer, Erich.

MacLean, Norman E., San Francisco, Calif. Refrigerating method and apparatus. 2,404,511; July 23.

Mahoney, Paul L.: *See*— Teague, Merwyn C., and Mahoney.

Makaroff, Vadim S., assignee: *See*— Jackson, Alexis.

Maling, Roy, West Roxbury, Mass. Making footwear. 2,404,586; July 23.

Maling, Roy, Chestnut Hill, Mass. Footwear. 2,404,587; July 23.

Mallory, Marion, Detroit, Mich. Carburetor. 2,404,645; July 23.

Marancik, Joseph V., Roselle, and D. B. MacClymont, Newark, N. J., assignors to Standard Oil Development Company. Expansion joint. 2,404,447; July 23.

Marick, Louis, Grosse Pointe Farms, Mich., assignor to United States Rubber Company, New York, N. Y. Electrically heated cover. 2,404,736; July 23.

Marion Steam Shovel Company, The, assignee: *See*— Halby, Edwin G., and Bushong.

Marquette Metal Products Company, The, assignee: *See*— Sacchini, Columbus R.

Martin, Glenn L., Company, The, assignee: *See*— Valentyne, Peter H.

Martin, Henry, and F. Häfliger, assignors to J. R. Geigy A. G., Basel, Switzerland. Basic esters of 1-aryl-cycloalkyl-1-carboxylic acids and their manufacture. 2,404,588; July 23.

Martin, Marion E., administratrix: *See*— Martin, Otis C.

Martin, Otis C., deceased, Los Angeles, Calif.; M. E. Martin, administratrix. Matrix for making light transmitting screens. 2,404,448; July 23.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Prismatic and high power compressional-wave radiator and receiver. 2,404,391; July 23.

Maximoff, Alessandro, Milan, Italy; vested in the Alien Property Custodian. Synthetic rubber and its manufacture. 2,404,392; July 23.

May, Harry C., East McKeesport, and G. T. McClure, McKeesport, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,404,512; July 23.

Mayland, Harrison C., assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of paraffin hydrocarbons. 2,404,393; July 23.

Maytag Company, The, assignee: *See*— Smith, Thomas R.

McCabe, Bernard L., Daly City, Calif., assignor to Stuart Oxygen Co. Gas cylinder holder. 2,404,513; July 23.

McChesney, Cuyler S., Kenmore, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Automatic tire stitching machine. 2,404,449; July 23.

McClain, Clifford H., Lansdowne, Pa., assignor to Hoffman Specialty Co., Indianapolis, Ind. Temperature controller. 2,404,597; July 23.

McClure, Glenn T.: *See*— May, Harry C., and McClure.

McClure, Glenn T., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Valve device. 2,404,514; July 23.

McCollister, William H., Akron, Ohio, assignor to The Firestone Tire & Rubber Company. Tire removing tool. 2,404,583; July 23.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Heater. 2,404,646; July 23.

McCollum, Henry J. De N., deceased, T. McCollum, executrix; and L. A. Williams, Jr.; said Williams assignor to Stewart-Warner Corporation, Chicago, Ill. Heating apparatus. 2,404,647; July 23.

McCollum, Thelma, executrix: *See*— McCollum, Henry J. De N.

McQuay-Norris Manufacturing Company, assignee: *See*— Persons, Lawrence M.

Meis, Helmut: *See*— Hoffmann, Ullrich, and Meis.

Merner, Richard R., Deerfield, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polymer solutions. 2,404,723; July 23.

Metals Disintegrating Company, Inc., assignee: *See*— Sachse, Julius F.

Metzger, George H.: *See*— Murray, John A., and Metzger.

Meyer, Frank W., East St. Louis, Ill. Hydraulic flywheel. 2,404,515; July 23.

Meyer, Henry C. A., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Washing machine. 2,404,450; July 23.

Meyerhoff, John R., Elizabeth, N. J., assignor to Elastic Stop Nut Corporation of America. Article feeding device. 2,404,648; July 23.

Milberg, Lester S., Brooklyn, N. Y. Lady's slip. 2,404,451; July 23.

Miller, Frank W., assignor to Franclare Company, Chicago, Ill. Cleaning steam boilers. 2,404,516; July 23.

Miller, Russell F., U. S. Navy. Heating shield for all types of airplane engines. 2,404,394; July 23.

Milliken, Humphreys, Mount Royal, Quebec, Canada. Apparatus for converting heat energy into useful work. 2,404,395; July 23.

Minnesota Mining & Manufacturing Company, assignee: *See*— Stephens, Henry N., Gehrenbeck, and Guthrie.

Mitchell, Aloysius: *See*— Osborne, Sidney G., and Mitchell.

Molchan, Stephen, Jersey City, N. J. Curling rod. 2,404,517; July 23.

Monaghan, Henry W., assignor to Higgins Industries, Inc., New Orleans, La. Muffler for marine power plants. 2,404,589; July 23.

Monroe, George S.: *See*— Ipatieff, Vladimir N., and Monroe.

Moore, Maurice L., Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Sulphanilylsulphanilamide derivatives. 2,404,737; July 23.

Moran, Edward V., Billings, Mont., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Tractor implement. 2,404,518; July 23.

Morrison, George O., and H. M. Collins, Shawinigan Falls, Quebec, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Making aqueous dispersions containing polyvinyl acetate and wax. 2,404,519; July 23.

Mosher, Harvey G., Inkster, Mich. Mounting device for dual wheels. 2,404,520; July 23.

Moulin, Albert E., Jr., and P. W. Orchard, Jr., New Orleans, La. Oscillograph. 2,404,738; July 23.

Mumma, Robert E.: *See*— Desch, Joseph R., and Mumma.

Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Calculating machine. 2,404,739; July 23.

Murray, John A., and G. H. Metzger, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company. Treatment of organic solutions of formaldehyde-urea reaction products. 2,404,740; July 23.

Myers, Kenneth G., Alexander, Iowa. Wagon, trailer, and implement tongue. 2,404,521; July 23.

Nador, Emory: *See*— Roeder, Dale, and Nador.

Nantz, Randolph D., Orange, Tex. Heat concentrating nozzle protector for heating, cutting, and welding torches, and the like. 2,404,590; July 23.

Naragon, Ernest A., Beacon, assignor to The Texas Company, New York, N. Y. Preparation of aromatic hydrocarbons from hydrocarbon mixtures. 2,404,591; July 23.

National Cash Register Company, The, assignee: *See*— Desch, Joseph R., and Mumma. Mumma, Robert E.

National Distillers Products Corportion, assignee: *See*— Pattee, Ellis C.

National Oil Products Company, assignee: *See*— Buxton, Loran O. Dryden, Charles E., and Buxton.

Nemeth, Stephan P., Chicago, Ill. Pitch control means for sustaining rotors. 2,404,522; July 23.

Nesson, Israel, Lynn, assignor to M. Zaiger, Swampscott, Mass. Connector for windshield wiper arms. 2,404,523; July 23.

Neuhaus, Max, Bronxville, assignor to The Texas Company, New York, N. Y. Isomerizing hydrocarbons. 2,404,649; July 23.

Newkirk, Daniel L., Inkster, and E. E. Ensign, Ypsilanti, assignors to Ford Motor Company, Dearborn, Mich. Processing kiln. 2,404,650; July 23.

Nixon, Ivor G., Ewell, England, assignor to Shell Development Company, San Francisco, Calif. Production of aviation gasoline. 2,404,452; July 23.

Norris, W. C., Manufacturer, Incorporated, assignee: *See*— Norton, Joseph R.

Norton Company, assignee: *See*— Belden, Albert G., Flygare, and Hill.

Norton, Joseph R., assignor to W. C. Norris, Manufacturer, Incorporated, Tulsa, Okla. Pumping mechanism. 2,404,524; July 23.

Obert, Cloyd J.: *See*— Clark, Joseph L., Linden, and Obert.

O'Connor, Patrick J., New York, N. Y. Constructing walls. 2,404,396; July 23.

Oetzel, John G., Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Pressure actuated brake mechanism. 2,404,397; July 23.

Ohio State University Research Foundation, The, assignee: *See*—
Gaver, Kenneth M.

Olin, Bruff W., Highland, N. Y. Piston. 2,404,651; July 23.

Olin Industries, Inc., assignee: *See*—
Foster, Harry C.
Williams, David M.

Olson, Arthur A., Youngstown, Ohio. Direct fired unit heater. 2,404,592; July 23.

Orchard, Paul W., Jr.: *See*—
Moulin, Albert E., Jr., and Orchard.

Osborne, Sidney G., and A. Mitchell, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Removal of chlorate from caustic soda. 2,404,453; July 23.

Ottenstein, Friedrich, Copenhagen, Denmark; vested in the Alien Property Custodian. Bottle closure. 2,404,741; July 23.

Owens, James H., Camden, N. J., assignor to Radio Corporation of America. Beading projection screens. 2,404,454; July 23.

Palmer, Alvan M.: *See*—
Rodgers, Frederick W., and Palmer.

Park, Charles R.: *See*—
Hanson, Elmo E., and Park.

Parke, Davis & Company, assignee: *See*—
Bambas, Louis L.
Long, Loren M.

Parkinson, David B.: *See*—
Lovell, Clarence A., Parkinson, and Weber.

Patrick, Lawrence: *See*—
Leedy, Jesse.

Pattee, Ellis C., Cincinnati, Ohio, assignor to National Distillers Products Corporation. Treatment of winery slops. 2,404,398; July 23.

Pearson, Elmer W., Red Wing, Minn. Micrometer lapping fixture. 2,404,525; July 23.

Pennsylvania Railroad Company, The, assignee: *See*—
Jones, Lloyd B.

Pennsylvania Rubber Company, assignee: *See*—
Humphrey, Walter E.

Perfection Stove Company, assignee: *See*—
Resek, Marc.

Persons, Ernest L., Meriden, Conn. Ash receiver and sifter. 2,404,593; July 23.

Persons, Lawrence M., Ladue, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Control apparatus. 2,404,455; July 23.

Petersen, Heinrich: *See*—
Florian, Ernst, Petersen, and Christian.

Petrolite Corporation, Ltd., assignee: *See*—
Roberts, Claudius H. M.

Pfleumer, Hans, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y. Reinforced buoyant rubber disk. 2,404,594; July 23.

Phillips Petroleum Company, assignee: *See*—
Doan, Richard L.
Frey, Frederick E.
Upham, John D.

Pickles, Sidney B., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation. Adjustable transmission line. 2,404,399; July 23.

Pickles, Sidney B., Jackson Heights, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio beacon. 2,404,400; July 23.

Pierce, Norman, assignee, et al.: *See*—
Holm, Carl H.

Pierce, W. B., assignee, et al.: *See*—
Holm, Carl H.

Pierce, Wayne M., Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn. Alignment tool. 2,404,456; July 23.

Pinkney, Paul S.: *See*—
Bechtold, Max F., and Pinkney.

Pirwitz, Friedrich A. G., assignor to Wollensak Optical Company, Rochester, N. Y. Flashlight and shutter synchronizer. 2,404,526; July 23.

Plebanek, Leonard Z., Chicago, Ill., assignor of one-third to C. J. Strebel and one-third to A. Bird. Bounce ball game. 2,404,652; July 23.

Plebanek, Leonard Z., Chicago, Ill., assignor of one-third to C. J. Strebel and one-third to A. Bird. Electric target game. 2,404,653; July 23.

Plensler, Alexander W., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. Signal receiving and translating apparatus. 2,404,401; July 23.

Polak, James J., and A. L. Jackson, West Asheville, assignors to American Enka Corporation, Enka, N. C. Manufacture of large permeable packages of rayon. 2,404,742; July 23.

Porter, Edward, assignor of two-twentieths to A. W. Larson, Akron, Ohio. Ski runner. 2,404,402; July 23.

Potapenko, Gennady, Pasadena, Calif. Electric distance meter. 2,404,527; July 23.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Toll metering system. 2,404,654; July 23.

Power Jets (Research and Development) Limited, assignee: *See*—
Whittle, Frank.

Poylo, Michael C., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio mounting structure. 2,404,403; July 23.

Prause, Robert, Augsburg, Germany; vested in the Alien Property Custodian. Device for adjusting the pitch of air propellers. 2,404,743; July 23.

Prott, William, Poynette, Wis. Animal trap. 2,404,744; July 23.

Radio Corporation of America, assignee: *See*—
Bow, Orville E.
Bumstead, Ralph W.
Deal, Harmon B.
Hollingsworth, R. Lee.
Owens, James H.
Roberds, Wesley M.
Roberts, Walter van B.
Simpson, William E.

Randall, Arthur W., Saugus, Mass. Machine for felling trees. 2,404,655; July 23.

Rankin, Dan R.: *See*—
Hait, James M., Devirian, and Rankin.

Rankin, Dan R., and G. A. Reynolds, Jr., Los Angeles, assignors to Food Machinery Corporation, San Jose, Calif. Amphibian steering mechanism. 2,404,528; July 23.

Raytheon Manufacturing Company, assignee: *See*—
Stutsman, Paul W.

Reeves, John S., Baltimore, Md. Decorticating machine. 2,404,457; July 23.

Reeves, John S., Baltimore, Md. Decorticating machine. 2,404,458; July 23.

Reichelt, Lester O., Cranford, and D. V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Valve. 2,404,529; July 23.

Reichstein, Tadeus, Basel, Switzerland. Alpha-substituted side-chain ketones of the cyclopentanopolyhydrophenanthrene series. 2,404,768; July 23.

Renniks Company, assignee: *See*—
Skinner, Ralph L.

Research Corporation, assignee: *See*—
Sloan, David H.

Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Telescoping flue. 2,404,530; July 23.

Reynolds, George A., Jr.: *See*—
Rankin, Dan R., and Reynolds.

Richker, Charles, and Du B. Eastman, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbon oils. 2,404,595; July 23.

Riedel, Frederick W., Belle Vernon, Pa. Adjustable guides for flame hardening torches. 2,404,656; July 23.

Ritchie, W. C., and Company, assignee: *See*—
Gleisner, Walter J.

Roberds, Wesley M., Collingswood, N. J., assignor to Radio Corporation of America. High frequency apparatus. 2,404,404; July 23.

Roberts, Albert O., and J. J. Wharam, assignors to Ford Motor Company, Dearborn, Mich. Transmission. 2,404,657; July 23.

Roberts, Claudius H. M., Palos Verdes Estates, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Removing impurities from mineral oils. 2,404,405; July 23.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Ultra high frequency electron discharge device system. 2,404,745; July 23.

Robertson, Archibald, North Hollywood, Calif., assignor to Adel Precision Products Corp. Conduit supporting block. 2,404,531; July 23.

Robinson, Arthur W., Jr., Schenectady, N. Y., assignor to General Electric Company. Ignition spark gap device. 2,404,658; July 23.

Roche, Austin O., Jr., assignor to Hoffman Specialty Co., Indianapolis, Ind. Temperature controller. 2,404,596; July 23.

Rocker, William P., assignor to Southern Spring Bed Company, Atlanta, Ga. Bottle carrier. 2,404,532; July 23.

Roddy, Fred M., Providence, R. I. Plasticizing or plasticating plastic materials. 2,404,406; July 23.

Rodgers, Frederick W., Pacoima, and A. M. Palmer, Los Angeles, Calif. Sack lifter. 2,404,533; July 23.

Roeder, Dale, Wayne, and E. Nador, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Turret mounting. 2,404,459; July 23.

Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer solutions. 2,404,715; July 23.

Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymer solutions. 2,404,725; July 23.

Rohm & Haas Company, assignee: *See*—
Bruson, Herman A., and Butler.

Rohulick, Charles, Scranton, Pa. Parachute. 2,404,659; July 23.

Rolker, Edwin, assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Article handling apparatus. 2,404,460; July 23.

Rouleau, Wilfred J., Quincy, Mass. Air compressor. 2,404,660; July 23.

Rubatex Products, Inc., assignee: *See*—
Pfleumer, Hans.

Rylsky, Gregory V., Ridgefield Park, and F. W. Schule, Jr., Hackensack, assignors to Bendix Aviation Corporation, Bendix, N. J. Hand held low altitude bombsight. 2,404,746; July 23.

Sacchini, Columbus R., Euclid, asisgnor to The Marquette Metal Products Company, Cleveland, Ohio. Fluid operated motor. 2,404,747; July 23.

Sachse, Julius F., Summit, assignor to Metals Disintegrating Company, Inc., Elizabeth, N. J. Making abrasive articles. 2,404,598; July 23.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Von Ohlsen, Louis H.

Salzmann, Fritz, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Thermal power plant. 2,404,748; July 23.

Sanderson, Robert T., Fishkill, assignor to The Texas Company, New York, N. Y. Synthesis of paraffinic hydrocarbons by reacting an alkyl aluminum halide with an aliphatic halide. 2,404,599; July 23.

Sanderson, Robert T., Beacon, assignor to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,404,661; July 23.

Sanford, Stanley A., Cleveland, Ohio. Operating blast furnaces. 2,404,461; July 23.

Sargent, Frederick L., Burlingame, and W. J. Crader, Mountain View, Calif. Tire rack. 2,404,534; July 23.

Savage, Robert H., Scotia, N. Y., assignor to General Electric Company. Electrical contact element. 2,404,662; July 23.

Shawinigan Chemicals Limited, assignee: *See*—
Morrison, George O., and Collins.

Schlums, Otto W., assignor to Whitin Machine Works, Whitinsville, Mass. Bobbin marking mechanism. 2,404,462; July 23.

Schmeiser, Theodore G., Fresno, Calif. Bearing mounting for earthworking roller units. 2,404,535; July 23.

Schmerling, Louis, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of hydrocarbons. 2,404,536; July 23.

Schmerling, Louis, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,404,537; July 23.

Schmerling, Louis, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of arylalkene hydrocarbons. 2,404,538; July 23.

Schmidt, Benjamin F., Los Angeles, Calif., assignor to Adel Precision Products Corp. Adjustable conduit support for bulkheads. 2,404,539; July 23.

Schmidt, Ernst, Akron, Ohio, assignor to The Firestone Tire & Rubber Company. Latex activator. 2,404,585; July 23.

Schmidt, Marvin T., assignor to United States Gypsum Company, Chicago, Ill. Aqueous emulsion paint. 2,404,463; July 23.

Schmidt, Rudolf, Passeck-on-the-Iser, Germany; vested in the Alien Property Custodian. Weaver's shuttle. 2,404,749; July 23.

Schmidt, William D., Worcester, Mass. Gage. 2,404,750; July 23.

Schmitt, Edwin H., Cincinnati, Ohio. Gauge. 2,404,751; July 23.

Schoenfeld, Kurt F. E., Stafford, Va., and E. W. Fowler, Amherst, N. Y. Engine. 2,404,752; July 23.

Schule, Frederick W., Jr.: *See*—
Rylsky, Gregory V., and Schule, Jr.

Schulz, William H.: *See*—
Cooper, Thomas B., and Schulz.

Scovill, Royal J., Jr., Gary, Ind. Machine for cutting blooms and the like. 2,404,600; July 23.

Seurynck, Bernard J., Detroit, Mich. Electric fuse connection plug. 2,404,407; July 23.

Sewell, Earl F., Yuba City, Calif. Pipe forming machine. 2,404,464; July 23.

Seyter, William C., Union City, N. J., assignor to The Torsion Balance Co., New York, N. Y. Micro balance. 2,404,601; July 23.

Sharp & Dohme, Incorporated, assignee: *See*—
Moore, Maurice L.

Shell Development Company, assignee: *See*—
Crawford, Chester C., and Yabroff.
Evans, Theodore W.
Nixon, Ivor G.

Shommer, Carl, Kinsman, Ohio. Adjustable mounting for liquid fuel burners. 2,404,663; July 23.

Siemers, Eric, assignor, by mesne assignments, to Lacey-Webber Co., Kalamazoo, Mich. Emergency lamp. 2,404,753; July 23.

Signer, Rudolf, Berne, Switzerland. Hardening and tanning of artificial fibers made of protein. 2,404,665; July 23.

Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Cutter chain. 2,404,540; July 23.

Simpkins, Albert I., assignee: *See*—
Carlson, Charles N.

Simpson, William E., South Ozone Park, N. Y., assignor to Radio Corporation of America. Tone frequency signal repeater. 2,404,754; July 23.

Skinner, Ralph L., assignor to Renniks Company, Detroit, Mich. Pressure sealing-means. 2,404,664; July 23.

Slechta, Henry C.: *See*—
Johansson, Sven G., and Slechta.

Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Generating high-frequency oscillations. 2,404,541; July 23.

Sloan David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Resonator for oscillators. 2,404,542; July 23.

Smith, Achibald D., Jr., Amityville, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio receiving apparatus. 2,404,408; July 23.

Smith, John S., Ramsey, N. J., assignor to Botany Worsted Mills, Passaic, N. J. Textile comb-needle assembly. 2,404,755; July 23.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Container. 2,404,409; July 23.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Bottle cap. 2,404,410; July 23.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Shock absorbing device. 2,404,666; July 23.

Southern Spring Bed Company, assignee: *See*—
Rocker, William P.

Spiess, Georg, Leipzig, W. 31, Germany; vested in the Alien Property Custodian. Apparatus for correcting differences in register. 2,404,756; July 23.

Squibb, E. R., & Sons, assignee: *See*—
Christiansen, Walter G., and Harris.

Standard Aircraft Products, Inc., assignee: *See*—
Early, Paul F.

Standard Oil Development Company, assignee: *See*—
Kraus, Charles A., and Calfee.
Lieber, Eugene, and Cashman.
Marancik, Joseph V., and MacClymont.
Wilson, Warren C.

Starr, James H., La Grange, and E. A. Goodnow, Glenview, assignors to Electro-Chemical Engineering Corporation, Chicago, Ill. Instrument box. 2,404,757; July 23.

Statia, Edwin V., Sr., Royal Oak, assignor of one-half to E. L. Chapman, Detroit, Mich. Radius to tangent compound angle dresser. 2,404,465; July 23.

Steabner, Robert, Detroit, Mich. Internal-combustion engine. 2,404,543; July 23.

Stelzer, William, Detroit, Mich. Aircraft. 2,404,544; July 23.

Stephens, Henry N., G. B. Gehrenbeck, and D. R. Guthrie, White Bear Lake, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Chlorinated maleic anhydride adducts. 2,404,411; July 23.

Stephens, Robert M., Winnipeg, Manitoba, Canada. Vacuum cup. 2,404,412; July 23.

Sterling Drug Inc., assignee: *See*—
Aneshansel, Carl W.

Stetson, John B., Company, assignee: *See*—
Hodshon, Alfred E.

Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,404,545; July 23.

Stewart-Warner Corporation, assignee: *See*—
Budlane, Stanley J.
Davis, Ernest W.
McCollum, Henry J. de N., and Williams.
Williams, Lynn A., Jr.

Stoffiet, Harry F., Allentown, Pa., assignor to Bethlehem Steel Company. Ingot hook. 2,404,602; July 23.

Stokes, Edward A.: *See*—
Vokes, Cecil G., and Stokes.

Strawn, Lynn R.: *See*—
Grenko, John D., and Strawn.

Strebel, Charles, J., assignee, et al.: *See*—
Plebanek, Leonard Z.

Strid, Carl J., La Canada, Calif., assignor to Adel Precision Products Corp. Hydraulic pump. 2,404,547; July 23.

Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making shoes. 2,404,546; July 23.

Stuart Oxygen Co., assignee: *See*—
McCabe, Bernard L.

Stutsman, Paul W., Waltham, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Electrical gaseous discharge device. 2,404,413; July 23.

Summers, Thomas O., Jr., Los Angeles, Calif. Attitude-indicating flight instrument. 2,404,603; July 23.

Sutton, Henry M., deceased, by F. E. Wood, executor, assignor to Sutton, Steele & Steele, Incorporated, Dallas, Tex. Method and apparatus for removal of heavy objectionable material from cereals, legumes, and other food products. 2,404,414; July 23.

Sutton, Steele & Steele, Incorporated, assignee: *See*—
Sutton, Henry M.

Taylor, Reginald, and G. T. Baker, Liverpool, England, and A. C. Corner, Calcutta, India, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc. Telephone or like system. 2,404,466; July 23.

Taylor, Thomas L., Detroit, Mich. Grinding tool guide. 2,404,604; July 23.

Taylor-Winfield Corporation, The, assignee: *See*—
Cooper, Joseph H.
Hansen, Hans H.

Teague, Merwyn C., Ridgewood, N. J., and P. L. Mahoney, Jackson Heights, assignors to United States Rubber Company, New York, N. Y. Laminated porous elastic fabric. 2,404,758; July 23.

Teletype Corporation, assignee: *See*—
Potts, Louis M.
Vosburg, Alan E.

Tellini, Carlo: *See*—
Zajotti, Adolfo, and Tellini.

Texas Company, The, assignee: *See*—
Grenko, John D., and Strawn.
Narogon, Ernest A.
Neuhaus, Max.
Richker, Charles, and Eastman.
Sanderson, Robert T.
Veltman, Preston L., and Davaney.

Thomas, James C., III, El Segundo, Calif. Mixing chamber. 2,404,548; July 23.

Thomas, James C., III, El Segundo, Calif. Faucet attachment. 2,404,549; July 23.

Thompson, Howard O., San Francisco, Calif. Tunnel boring machine. 2,404,505; July 23.

Thompson, Marvin R., Great Neck, and N. J. Accousti, West Hempstead, Long Island, N. Y., and V. Fisher, Red Bank, N. J., assignors to William R. Warner & Co., Inc., New York, N. Y. Therapeutic composition. 2,404,667; July 23.

Thompson Products, Inc., assignee: *See*—
Caserta, Michele.
Snyder, Jacob R.

Thompson, Tom H., Mamaroneck, N. Y., assignor to Thompson-Wade Corporation, Detroit, Mich. Fluid transmission. 2,404,668; July 23.

Thompson-Wade Corporation, assignee: *See*—
Thompson, Tom H.

Thomsen, Alfred M., San Francisco, Calif. Obtaining magnesia and potash from the waters of the Great Salt Lake. 2,404,550; July 23.

Tien, Hsin-Ya, Calcutta, India. Internal-combustion engine. 2,404,467; July 23.

Tillman, John E., Stratford, Conn., assignor to General Electric Company. Converter. 2,404,669; July 23.

Times Telephoto Equipment Inc., assignee: *See*—
Cooley, Austin G.

Toledo Automatic Brush Machine Company, The, assignee: *See*—
Jobst, Conrad.

Toledo Scale Company, assignee: *See*—
Wood, George R.

Torsion Balance Co., The, assignee: *See*—
Seyter, William C.

Trist, Arthur R., London, W.1, England. Method and machine for burnishing the surface of paper. 2,404,606; July 23.

Tung-Sol Lamp Works, Inc., assignee: *See*—
Atkins, Carl E.

Turner, Floyd F., assignor to The Haughton Elevator Company, Toledo, Ohio. Overload safety switch for elevators. 2,404,415; July 23.

Udall, Frederick M., and P. Baumgarten, New York, N. Y. Latch mechanism. 2,404,670; July 23.

United Aircraft Corporation, assignee: *See*—
Pierce, Wayne M.

United Last Company, assignee: *See*—
Loewer, Henry F.

United Shoe Machinery Corporation, assignee: *See*—
Bagshaw, Charles M.
Fernald, Mark E.
Imhof, Herman A.
Stritter, Karl A.

United States Gypsum Company, assignee: *See*—
Schmidt, Marvin T.

United States Hoffman Machinery Corporation, assignee: *See*—
Meyer, Henry C. A.

U. S. Industrial Chemicals, Inc., assignee: *See*—
Hammond, John A. S.

United States Rubber Company, assignee: *See*—
Coleman, Ralph A.
Hurt, Victor H.
Marick, Louis.
Teague, Merwyn C., and Mahoney.

Universal Oil Products Company, assignee: *See*—
Collins, Robert B.
Ipatieff, Vladimir N., and Monroe.
Iverson, John O.
Mayland, Harrison C.
Schmerling, Louis, and Ipatieff.

University of Tennessee, Research Corporation, assignee: *See*—
Hertel, Kenneth L.

Upham, John D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,404,551; July 23.

Utermohlen, William P., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing 4-substituted thiazoles. 2,404,416; July 23.

Valentyne, Peter H., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Self-locking vent system. 2,404,765; July 23.

Van Der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Position control for hydraulic actuators. 2,404,552; July 23.

Van Schwartz, Zolly C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tool. 2,404,580; July 23.

Varela, Arthur A., Washington, D. C. Secondary multiplication power tube. 2,404,417; July 23.

Veltman, James H. F.: *See*—
Hill, William H., and Veltman.

Veltman, Preston L., Fishkill, N. Y., and L. W. Devaney, West Lafayette, Ind., assignors to The Texas Company, New York, N. Y. Production of alkylation reagent and alkylation process. 2,404,607; July 23.

Vinal, Leroy W., Leominster, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Molding process. 2,404,671; July 23.

Vokes, Cecil G., and E. A. Stokes; said Stokes assignor to Vokes Limited, London, England. Filter for gases under pressure. 2,404,468; July 23.

Vokes Limited, assignee: *See*—
Vokes, Cecil G., and Stokes.

Volf, Christian A., Los Angeles, Calif. Vented parachute. 2,404,672; July 23.

Volf, Christian A., Los Angeles, Calif. Cargo carrier. 2,404,673; July 23.

Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Regulator. 2,404,674; July 23.

Vosburg, Alan E., assignor to Teletype Corporation, Chicago, Ill. Safety guard. 2,404,675; July 23.

Waldorf Paper Products Company, assignee: *See*—
Guyer, Reynolds.

Wales, Nathaniel B., Jr., New York, N. Y. Electric fuse and setting apparatus. 2,404,553; July 23.

Walker, Brooks, Piedmont, Calif. Noncombustible fuel tank. 2,404,418; July 23.

Walter, Gordon E.: *See*—
Leigh, Henry H., and Walter.

Warner Electric Brake Manufacturing Company, assignee: *See*—
Oetzel, John G.

Warner, William R., & Co. Inc., assignee: *See*—
Thompson, Marvin R., Accousti, and Fisher.

Wasberg, Axel, assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway car door and post structure. 2,404,554; July 23.

Washbond, Harry H., assignor to The Baker Manufacturing Company, Springfield, Ill. Bulldozer or scraper structure. 2,404,759; July 23.

Washbond, Harry H., assignor to The Baker Manufacturing Company, Springfield, Ill. Bulldozer or scraper structure. 2,404,760; July 23.

Washington Institute of Technology, Inc., assignee: *See*—
Kear, Frank G.

Waters, Daniel V.: *See*—
Reichelt, Lester O., and Waters.

Weatherly, William G., Colfax, Wash. Engine starting apparatus. 2,404,419; July 23.

Weber, Bruce T.: *See*—
Lovell, Clarence A., Parkinson, and Weber.

Wells, Joseph H., and P. J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Utilizing acid sludge. 2,404,608; July 23.

Wells, Rondal E.: *See*—
Levine, Joseph, and Wells.

Westerkamp, Hugo, Koln-poll, Germany; vested in the Alien Property Custodian. Producing bridging matrix for endless sound bands. 2,404,761; July 23.

Western Electric Company, Incorporated, assignee: *See*—
Johansson, Sven G., and Slechta.
Reichelt, Lester O., and Waters.

Westinghouse Air Brake Company, The, assignee: *See*—
May, Harry C., and McClure.
McClure, Glenn T.
Stevens, Roy R.

Westinghouse Electric Corporation, assignee: *See*—
Armstrong, George C.
Bradbury, Donald.

Wharam, John J.: *See*—
Roberts, Albert O., and Wharam.

Wheeler, Phillip R., Alexandria, Va. Bearing assembly. 2,404,420; July 23.

Whitin Machine Works, assignee: *See*—
Schlums, Otto W.

Whittle, Frank, Rugby, England, assignor to Power Jets (Research and Development) Limited, London, England. Centrifugal compressor. 2,404,609; July 23.

Williams, David M., New Haven, Conn., assignor to Olin Industries, Inc. Bolt-action firearm. 2,404,555; July 23.

Williams, Lynn A., Jr.: *See*—
McCollum, Henry J. De N., and Williams.

Williams, Lynn A., Jr., Northfield, assignor to Stewart-Warner Corporation, Chicago, Ill. Heating apparatus. 2,404,676; July 23.

Wilson, Elvin H., assignee: *See*—
Handelan, Daniel.

Wilson, Philip J., Jr.: *See*—
Wells, Joseph H., and Wilson.

Wilson, Warren C., Rahway, N. J., assignor to Standard Oil Development Company. Fractional distillation. 2,404,677; July 23.

Wirth, Richard R., Westwood, Ohio. Underwater inspection and photographing device. 2,404,556; July 23.

Wollensak Optical Company, assignee: *See*—
Pirwitz, Friedrich A. G.

Wood, Frank E., executor: *See*—
Sutton, Henry M.

Wood, Fredric E., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electromagnetic relay. 2,404,469; July 23.

Wood, George R., Montreal, Quebec, Canada, assignor to Toledo Scale Company, Toledo, Ohio. Food handling apparatus. 2,404,557; July 23.

Wooster, Philip A., San Rafael, Calif. Paper feed for towel dispensers. 2,404,421; July 23.

Workman, Clarence E., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Resilient wheel. 2,404,581; July 23.

Wuensch, Charles E., Saratoga, Calif. Impeller. 2,404,678; July 23.

Yabroff, David L.: *See*—
Crawford, Chester C., Yabroff.

Yellin, Edward, Chicago, Ill. Container. 2,404,558; July 23.

Zaiger, Max, assignee: *See*—
Nesson, Israel.

Zajotti, Adolfo, and C. Tellini, Venice, Carpenedo, Italy; vested in the Alien Property Custodian. Utilizing maize cane and sorghum. 2,404,762; July 23.

Zemen, Alexander, Baltimore, Md. Piston and connecting rod mechanism. 2,404,470; July 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Corset. J. J. Kispert. Re. 22,773; July 23.

LIST OF DESIGN INVENTIONS

Bottle. M. E. Scott. 145,275; July 23.
Brooch or similar article. A. Katz. 145,250–3; July 23.
Brooch or similar article. A. Philippe. 145,258–61; July 23.
Brooch or similar article. A. Philippe. 145,268–9; July 23.
Brooch or similar article. A. Philippe. 145,272; July 23.
Casing, Vacuum cleaner. C. B. Stevens. 145,276; July 23.
Clamp, Clothesline. R. L. Odiorne and J. S. Monroe. 145,256; July 23.
Compact. N. K. Morris. 145,255; July 23.
Dress. B. Hurwitz. 145,247–9; July 23.
Earring or similar article. A. Philippe. 145,262–5; July 23.
Fabric, Narrow woven. A. Gelb. 145,246; July 23.
Frame, Picture. E. Olszewski. 145,257; July 23.
Handbag. L. Kaufman. 145,254; July 23.
Jigger and bottle opener, Combination. J. G. de Lemos. 145,245; July 23.
Lamp, Clearance. W. Trautner. 145,277; July 23.
Lamp, Shade with luminous figures. J. Ross. 145,274; July 23.
Lamp, Side marker. W. Trautner. 145,278; July 23.
Light, Corner marker. W. Trautner. 145,279; July 23.
Oil island. F. L. Ayres. 145,243; July 23.
Pin clip or similar article. A. Philippe. 145,266–7; July 23.
Pin clip or similar article. A. Philippe. 145,270–1; July 23.
Pin clip or similar article. A. Philippe. 145,273; July 23.
Support for hand-held lecture papers or similar article, Illuminating. J. De Jen. 245,244; July 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article, Making. J. F. Sachse. 2,404,598; July 23.
Acid sludge, Utilizing. J. H. Wells and P. J. Wilson, Jr. 2,404,608; July 23.
Acrylonitrile polymer solutions. R. C. Houtz. 2,404,719; July 23.
Adapter with swivel joint. R. F. Bannow. 2,404,561; July 23.
Adjustment device. J. A. Herbst. 2,404,377; July 23.
Aircraft. W. Stelzer. 2,404,544; July 23.
Alignment tool. W. M. Pierce. 2,404,456; July 23.
Alkyl mercaptans, Production of. J. E. Beanblossom and R. H. Kimball. 2,404,425; July 23.
Alkylation reagent and alkylation process, Production of. P. L. Veltman and L. W. Devaney. 2,404,607; July 23.
Alpha-substituted side-chain ketones of the cyclopentanopolyhydrophenanthrene series. T. Reichstein. 2,404,768; July 23.
Amino acids from their salts, Preparation of. M. S. Kharasch and C. F. Fuchs. 2,404,503; July 23.
Amphibian. J. M. Hait. 2,404,489; July 23.
Amphibian. J. M. Hait. 2,404,492; July 23.
Amphibian. J. M. Hait, P. S. Devirian, and D. R. Rankin. 2,404,493; July 23.
Anchor, Packer. W. L. Church. 2,404,692; July 23.
Animal trap. W. Prott. 2,404,744; July 23.
Apparatus for catalytic operations. J. A. S. Hammond. 2,404,574; July 23.
Apparatus for cleaning of flue gases. T. C. Bieth. 2,404,347; July 23.
Apparatus for converting heat energy into useful work. H. Milliken. 2,404,395; July 23.
Apparatus for correcting differences in register. G. Spiess. 2,404,756; July 23.
Apparatus for handling recumbent persons. J. E. Lenahan. 2,404,734; July 23.
Apparatus for making sheet material. G. P. Bosomworth. 2,404,582; July 23.
Apparatus for measuring carbonaceous deposits. R. B. Collins. 2,404,474; July 23.
Apparatus for packing explosive in cartridges. J. L. Clark, C. M. Linden, and C. J. Obert. 2,404,434; July 23.
Apparatus for recovering metals. T. B. Cooper and W. H. Schulz. 2,404,364; July 23.
Aqueous dispersions containing polyvinyl acetate and wax, Making. G. O. Morrison and H. M. Collins. 2,404,519; July 23.
Arresting hook. C. H. Jolly. 2,404,381; July 23.
Article feeding device. J. R. Meyerhoff. 2,404,648; July 23.
Article handling apparatus. E. Rolker. 2,404,460; July 23.
Article-positioning mechanism. M. E. Fernald. 2,404,480; July 23.
Aryl sulphenamides, Manufacture of. R. A. Coleman. 2,404,695; July 23.
Ash receiver and sifter. E. L. Persons. 2,404,593; July 23.
Attachment for neon tubes, Light amplifying. A. A. Goldberg. 2,404,627; July 23.
Attachment for photographic cameras, Masking. C. H. Duffy. 2,404,366; July 23.
Automatic frequency control. O. E. Dow. 2,404,568; July 23.
Ball game, Bounce. L. Z. Plebanek. 2,404,652; July 23.
Base, Receptacle. W. J. Gleisner. 2,404,485; July 23.
Bearing assembly. P. R. Wheeler. 2,404,420; July 23.
Blade, Doctor. V. Carlsen and A. Heinrich. 2,404,689; July 23.
Block: *See*—
Conduit supporting block.
Boilers, Cleaning steam. F. W. Miller. 2,404,516; July 23.
Bombsight, Hand held low altitude. G. V. Rylsky and F. W. Schule, Jr. 2,404,746; July 23.
Boring machine, Tunnel. H. O. Thompson. 2,404,605; July 23.
Bottle cap. T. R. Smith. 2,404,410; July 23.
Bottle carrier. J. J. Druhot. 2,404,625; July 23.
Bottle carrier. A. H. Edgerton. 2,404,699; July 23.
Bottle carrier. W. P. Rocker. 2,404,532; July 23.
Box: *See*—
Instrument box. Railway journal box.
Brake: *See*—
Railway truck spring brake. Ski brake.
Brake for hydraulic motors. C. M. Boyd; 2,404,615; July 23.
Brake mechanism, Pressure actuated. J. G. Oetzel. 2,404,397; July 23.
Bridging matrix for endless sound bands, Producing. H. Westerkamp. 2,404,761; July 23.
Brush, Stud and bolt-cleaning. O. E. Link. 2,404,507; July 23.
Bulldozer or scraper structure. H. H. Washbond. 2,404,759–60; July 23.
Burner: *See*—
Combination heater and refuse burner.
Burners, Method and apparatus for protecting. J. L. Anderson. 2,404,423; July 23.
Burnishing the surface of paper, Method and machine for. A. R. Trist. 2,404,606; July 23.
Calculating device. J. R. Desch and R. E. Mumma. 2,404,697; July 23.
Calculating machine. R. E. Mumma. 2,404,739; July 23.
Cane and sorghum, Utilizing maize. A. Zajotti and C. Tellini. 2,404,762; July 23.
Cap: *See*—
Bottle cap.
Carbonator. P. Andron and H. Krichman. 2,404,679; July 23.
Carburetor. M. Mallory. 2,404,645; July 23.
Cargo carrier. C. A. Volf. 2,404,673; July 23.
Carrier: *See*—
Bottle carrier. Cargo carrier.
Case: *See*—
Compartmented fiberboard egg case.
Chain: *See*—
Cutter chain.
Chamber, Mixing. J. C. Thomas, III. 2,404,548; July 23.
Chemical compounds. W. G. Christiansen and S. E. Harris. 2,404,691; July 23.
Chlorate from caustic soda, Removal of. S. G. Osborne and A. Mitchell. 2,404,453; July 23.
Chlorinated maleic anhydride adducts. H. N. Stephens, G. B. Gehrenbeck, and D. R. Guthrie. 2,404,411; July 23.
Circuit: *See*—
Electric control circuit. Noise limiting circuit.
Cleaning system, Vacuum. W. E. Bible. 2,404,358; July 23.
Clip: *See*—
Cushioned clip.
Closure, Bottle. F. Ottenstein. 2,404,741; July 23.
Coated methyl methacrylate polymer. M. F. Bechtold. 2,404,357; July 23.
Coating composition, Removable. H. K. Ash. 2,404,353; July 23.
Coating material, Water repellant. R. Canter and H. D. Geyer. 2,404,431; July 23.
Comb-needle assembly, Textile. J. S. Smith. 2,404,755; July 23.
Combination heater and refuse burner. D. Handelan. 2,404,705; July 23.
Communication and recognition system. H. B. Deal. 2,404,696; July 23.
Compartmented fiberboard egg case. R. Guyer. 2,404,704; July 23.
Compresser, Air. W. J. Rouleau. 2,404,660; July 23.
Compresser, Centrifugal. F. Whittle. 2,404,609; July 23.
Compressional-wave radiator and receiver, Prismatic and high power. W. P. Mason. 2,404,391; July 23.
Computing system, Electrical. C. A. Lovell, D. B. Parkinson, and B. T. Weber. 2,404,387; July 23.
Conduit supporting block. A. Robertson. 2,404,531; July 23.
Connector: *See*—
Electric swivel connector. Plug and socket connector.
Connector for windshield wiper arms. I. Nesson. 2,404,523; July 23.
Container: *See*—
Double walled container. Multiple chamber fluid Flower and plant container. container.
Container. T. R. Smith. 2,404,409; July 23.
Container. E. Yellin. 2,404,558; July 23.
Containers, Measuring and dispensing attachment for. B. P. Henin. 2,404,496; July 23.
Control apparatus. H. C. May and G. T. McClure. 2,404,512; July 23.
Control apparatus. L. M. Persons. 2,404,455; July 23.
Control apparatus. R. R. Stevens. 2,404,545; July 23.
Control circuit for radiotelegraph, Gain. R. L. Hollingsworth. 2,404,712; July 23.

Control for hydraulic actuators, Position. J. B. Van Der Werff. 2,404,552; July 23.
Control means for sustaining rotors, Pitch. S. P. Nemeth. 2,404,522; July 23.
Control of electric devices. B. Loewe. 2,404,644; July 23.
Control of flash welding. J. H. Cooper. 2,404,620; July 23.
Control system. H. H. Leigh and G. E. Walter. 2,404,641; July 23.
Controller, Temperature. C. H. McClain. 2,404,597; July 23.
Controller, Temperature. A. O. Roche, Jr. 2,404,596; July 23.
Converter. J. E. Tillman. 2,404,669; July 23.
Cooler: *See*—
Evaporative cooler.
Cover: *See*—
Electrically heated cover.
Crystal. W. E. Kuenstler. 2,404,445; July 23.
Cup, Vacuum. R. M. Stephens. 2,404,412; July 23.
Curling rod. S. Molchan. 2,404,517; July 23.
Cushioned clip. C. J. Chunn. 2,404,473; July 23.
Cutter and squeezer, Fruit. R. A. Klein. 2,404,382; July 23.
Cutter chain. L. E. Simmons. 2,404,540; July 23.3
Decorticating machine. J. S. Reeves. 2,404,457–8; July 23.
Dental device. H. Barishman. 2,404,683; July 23.
Detector, Regenerative detonation. K. R. Eldredge and V. C. Davis. 2,404,569; July 23.
Device for adjusting the pitch of air propellers. R. Prause. 2,404,743; July 23.
Device to aid teaching of automatic radio compass. J. Levine and R. E. Wells. 2,404,386; July 23.
Devices for marking fabrics. G. C. E. Keet. 2,404,638; July 23.
Die and removing molded articles therefrom, Molding. E. Gronemeyer. 2,404,631; July 23.
Direct fired unit heater. A. A. Olson. 2,404,592; July 23.
Discharge device, Electrical gaseous. P. W. Stutsman. 2,404,413; July 23.
Discriminator, Frequency. M. E. Bond. 2,404,359; July 23.
Disk, Reinforced buoyant rubber. H. Pfleumer. 2,404,594; July 23.
Door and post structure, Railway car. A. Wasberg. 2,404,554; July 23.
Double walled container. F. Gettelman. 2,404,484; July 23.
Driving and control mechanism. G. B. Hirsch. 2,404,439; July 23.
Driving motors of submersible pumps, Sealing. V. A. Hoover. 2,404,635; July 23.
Drying apparatus. C. E. Koch. 2,404,732; July 23.
Electric control circuit. D. W. Borst. 2,404,614; July 23.
Electric distance meter. G. Potapenko. 2,404,527; July 23.
Electric fuse connection plug. B. J. Seurynck. 2,404,407; July 23.
Electric lamp. P. F. Early. 2,404,476; July 23.
Electric swivel connector. W. F. Boehlke. 2,404,564; July 23,
Electrical contact element. R. H. Savage. 2,404,662; July 23.
Electrically heated cover. L. Marien. 2,404,736; July 23.
Electrocuter, Insect. G. Bowser. 2,404,687; July 23.
Electrode holder. T. S. Donnelly, Jr. 2,404,437; July 23.
Electromechanical device. W. R. Harry. 2,404,375; July 23.
Electron discharge device. G. P. Chevigny. 2,404,363; July 23.
Electronic electroresponsive apparatus. O. W. Livingston. 2,404,643; July 23.
Elevating and sampling apparatus, Commodity. O. M. Harlow. 2,404,373; July 23.
Emergency lamp. E. Siemers. 2,404,753; July 23.
Engine: *See*—
Internal-combustion engine.
Engine. K. F. E. Schoenfeld and E. W. Fowler. 2,404,752; July 23.
Engine starting apparatus. W. G. Weatherly. 2,404,419; July 23.
Esters of 1-aryl-cycloalkyl-1-carboxylic acids and their manufacture, Basic. H. Martin and F. Häfliger. 2,404,588; July 23.
Ethers, Manufacture of vinyl. W. J. R. Evans. 2,404,700; July 23.
Evaporative cooler. B. Essick. 2,404,479; July 23.
Expansion joint. J. V. Marancik and D. B. MacClymont. 2,404,447; July 23.
Extrusion machine. F. T. Griffiths. 2,404,630; July 23.
Fabric: *See*—
Laminated porous elastic fabric.
Facing and boring device. P. J. Christman. 2,404,433; July 23.
Fastening device. R. L. Hallock. 2,404,372; July 23.
Fat-soluble vitamin ester concentrates, Production of. C. E. Dryden and L. O. Buxton. 2,404,365; July 23.
Faucet attachment. J. C. Thomas, III. 2,404,549; July 23.
Feed for towel dispensers, Paper. P. A. Wooster. 2,404,421; July 23.
Fibers made of protein, Hardening and tanning of artificial. R. Signer. 2,404,665; July 23.
Filter for gases under pressure. C. G. Vokes and E. A. Stokes. 2,404,468; July 23.
Filtering device, Respiratory. J. B. Biederman. 2,404,686; July 23.
Finned tubes with support engaging bearing portions, Manufacturing. W. P. Hill. 2,404,575; July 23.
Firearm, Bolt-action. D. M. Williams. 2,404,555; July 23.
Flashlight construction. J. G. Lippincott. 2,404,735; July 23.
Floor construction. R. H. Carson. 2,404,471; July 23.
Flower and plant container. W. Fowlkes. 2,404,370; July 23.
Flue, Telescoping. M. Resek. 2,404,530; July 23.
Fluid operated motor. C. R. Sacchini. 2,404,747; July 23.
Fluid transmission. T. H. Thompson. 2,404,668; July 23.
Fluorination. J. Harmon. 2,404,706; July 23.
Flywheel, Hydraulic. F. W. Meyer. 2,404,515; July 23.
Footwear. R. Maling. 2,404,587; July 23.
Footwear, Making. R. Maling. 2,404,586; July 23.
Forging press. H. N. Anderson. 2,404,351; July 23.
4-substituted thiazoles, Preparing. W. P. Utermohlen, Jr. 2,404,416; July 23.
Fractional distillation. W. C. Wilson. 2,404,677; July 23.
Fuel, Manufacture of motor. R. T. Sanderson. 2,404,661; July 23.
Fuel tank. E. E. Hanson and C. R. Park. 2,404,766; July 23.
Furnaces, Operating blast. S. A. Sanford. 2,404,461; July 23.
Fuse and setting apparatus, Electric. N. B. Wales, Jr. 2,404,553; July 23.
Game board. J. A. Clark. 2,404,693; July 23.
Game, Electric target. L. Z. Plebanek. 2,404,653; July 23.
Gas cylinder holder. B. L. McCabe. 2,404,513; July 23.
Gasoline, Production of aviation. I. G. Nixon. 2,404,452; July 23.
Gauge. W. D. Schmidt. 2,404,750; July 23.
Gauge. E. H. Schmitt. 2,404,751; July 23.
Gears and the like, Cushioning draft. L. B. Jones. 2,404,637; July 23.
Grating, Structural. E. C. Elliott. 2,404,570; July 23.
Grill, Bottle carrier. W. M. Bassichis. 2,404,685; July 23.
Grinding machine, Crankshaft. A. G. Belden, C. G. Flygare, and O. E. Hill. 2,404,613; July 23.
Grinding machine, Gear. W. Graf. 2,404,573; July 23.
Guard, Safety. A. E. Vosburg. 2,404,675; July 23.
Guide, Grinding tool. T. L. Taylor. 2,404,604; July 23.
Guides for flame hardening torches, Adjustable. F. W. Riedel. 2,404,656; July 23.
Handle. R. K. Hallum. 2,404,495; July 23.
Handling apparatus, Food. G. R. Wood. 2,404,557; July 23.
Hat, Manufacturing felt. A. E. Hodshon. 2,404,634; July 23.
Heater: *See*—
Direct fired unit heater.
Heater. H. J. De N. McCollum. 2,404,646; July 23.
Heating apparatus. S. J. Budlane. 2,404,617; July 23.
Heating apparatus. H. J. De N. McCollum and L. A. Williams, Jr. 2,404,647; July 23.
Heating apparatus. L. A. Williams, Jr. 2,404,676; July 23.
High-frequency apparatus. W. M. Roberds. 2,404,404; July 23.
High-frequency oscillations, Generating. D. H. Sloan. 2,404,541; July 23.
Hitch, Trailer. C. N. Carlson. 2,404,362; July 23.
Holder: *See*—
Electrode holder.
Gas cylinder holder.
Holder for cantilever elements, Spring. M. Fritts. 2,404,385; July 23.
Hook: *See*—
Arresting hook.
Ingot hook.
Hydantoins and obtaining the same. L. M. Long. 2,404,509–10; July 23.
Hydraulic pump. C. J. Strid. 2,404,547; July 23.
Hydrocarbons, Alkylation of. L. Schmerling and V. N. Ipatieff. 2,404,536; July 23.
Hydrocarbons, Alkylation of paraffin. H. C. Mayland. 2,404,393; July 23.
Hydrocarbons by reacting an alkyl aluminum halide with an aliphatic halide, Synthesis of paraffinic. R. T. Sanderson. 2,404,599; July 23.
Hydrocarbons from hydrocarbon mixture, Preparation of aromatic. E. A. Naragon. 2,404,591; July 23.
Hydrocarbons, Isomerizing. C. C. Crawford and D. L. Yabroff. 2,404,436; July 23.
Hydrocarbons, Isomerization of. J. O. Iverson. 2,404,499; July 23.
Hydrocarbons, Isomerizing. M. Neuhaus. 2,404,649; July 23.
Hydrocarbons, Manufacture of arylalkene. L. Schmerling and V. N. Ipatieff. 2,404,538; July 23.

Hydrocarbons, Polymerization of. J. D. Grenko and L. R. Strawn. 2,404,628; July 23.
Hydrocarbons, Production of motor-fuel. F. E. Frey. 2,404,483; July 23.
Hydrocarbons, Treatment of. L. Schmerling and V. N. Ipatieff. 2,404,537; July 23.
Hydrocarbons, Treatment of. J. D. Upham. 2,404,551; July 23.
Ignition spark gap device. A. W. Robinson, Jr. 2,404,658; July 23.
Impeller. C. E. Wuensch. 2,404,678; July 23.
Indexing mechanism. H. C. Foster. 2,404,369; July 23.
Ingot hook. H. F. Stoffiet. 2,404,602; July 23.
Ink, Printing. C. W. Aneshansel. 2,404,680; July 23.
Insect repellent composition. A. Dreyling. 2,404,698; July 23.
Insoles, Making. R. H. Johnson. 2,404,731; July 23.
Inspection and photographing device, Underwater. R. R. Wirth. 2,404,556; July 23.
Instrument, Attitude-indicating flight. T. O. Summers, Jr. 2,404,603; July 23.
Instrument box. J. H. Starr and E. A. Goodmow. 2,404,757; July 23.
Instrument, Calculating. E. Hill. 2,404,709; July 23.
Internal-combustion engine. R. Steabner. 2,404,543; July 23.
Internal-combustion engine. H.-Y. Tien. 2,404,467; July 23.
Internal-combustion engine piston. L. B. Boyd. 2,404,348; July 23.
Isomerization process using metal halide complexes. C. A. Kraus and J. D. Calfee. 2,404,444; July 23.
Jack: *See*—
Lifting jack.
Jet propulsion plant. F. A. M. Heppner. 2,404,767; July 23.
Joint: *See*—
Expansion joint.
Kiln, Processing. D. L. Newkirk and E. E. Ensign. 2,404,650; July 23.
Laminated porous elastic fabric. M. C. Teague and P. L. Mahoney. 2,404,758; July 23.
Lamp: *See*—
Electric lamp.
Emergency lamp.
Lapping fixture, Micrometer. E. W. Pearson. 2,404,525; July 23.
Last. H. F. Loewer. 2,404,508; July 23.
Lasting machine. H. A. Imhof. 2,404,497; July 23.
Latch mechanism. F. M. Udall and P. Baumgarten. 2,404,670; July 23.
Latex activator. E. Schmidt. 2,404,585; July 23.
Lathing material. J. L. Finck. 2,404,481; July 23.
Life saving device. W. R. Baack. 2,404,681; July 23.
Lifter: *See*—
Sack lifter.
Lifting jack. A. Jackson. 2,404,577; July 23.
Lighter, Cigarette. B. Cooper and A. F. Hohmann. 2,404,435; July 23.
Liquid. J. J. Felsecker. 2,404,701; July 23.
Loader, Beet. R. D. Griff. 2,404,629; July 23.
Loading machine. G. E. Coats. 2,404,619; July 23.
Lubricant additives and preparation thereof. E. Lieber and A. F. Cashman. 2,404,446; July 23.
Machine for coiling metal stock. J. Balla, Sr. 2,404,424; July 23.
Machine for cutting blooms and the like. R. J. Scovill, Jr. 2,404,600; July 23.
Machine for felling trees. A. W. Randall. 2,404,655; July 23.
Magnesia and potash from the waters of the Great Lake, Obtaining. A. M. Thomsen. 2,404,550; July 23.
Magnet structure, Permanent. S. I. Hitchcock. 2,404,710; July 23.
Marking mechanism, Bobbin. O. W. Schlums. 2,404,462; July 23.
Material from cereals, legumes, and other food products, Method and apparatus for removal of heavy objectionable. H. M. Sutton. 2,404,414; July 23.
Materials for gelatins, Flavoring. K. M. Gaver. 2,404,763; July 23.
Matrix for making light transmitting screens. O. C. Martin. 2,404,448; July 23.
Mechanism for automobile doors, Ventilator. D. L. Chandler. 2,404,432; July 23.
Meter: *See*—
Electric distance meter.
Metering system, Toll. L. M. Potts. 2,404,654; July 23.
Micro balance. W. C. Seyter. 2,404,601; July 23.
Mineral oils, Removing impurities from. C. H. M. Roberts. 2,404,405; July 23.
Mining device, Torpedo counter. C. H. Holm. 2,404,440; July 23.
Mixer: *See*—
Vertical mixer.
Molding process. L. W. Vinal. 2,404,671; July 23.
Motor: *See*—
Fluid operated motor.
Mount, Hand mirror. J. Casalino. 2,404,472; July 23.
Mounting: *See*—
Turret mounting.
Mounting for earthworking roller units, Bearing. T. G. Schmeiser. 2,404,535; July 23.
Mounting for liquid fuel burners, Adjustable. C. Shommer. 2,404,663; July 23.
Muffler for marine power plants. H. W. Monaghan. 2,404,589; July 23.
Multiple chamber fluid container. J. W. Liska. 2,404,578; July 23.
Net, Torpedo. G. H. Bannerman. 2,404,612; July 23.
Noise limiting circuit. G. W. Fyler. 2,404,626; July 23.
Noncombustible fuel tank. B. Walker. 2,404,418; July 23.
Oils, Catalytic conversion of hydrocarbon. C. Richker and du B. Eastman. 2,404,595; July 23.
Olefin oxides, Manufacture of. T. W. Evans. 2,404,438; July 23.
Organic solutions of formaldehyde-urea reactions products, Treatment of. J. A. Murray and G. H. Metzger. 2,404,740; July 23.
Oscillograph. A. E. Moulin, Jr., and P. W. Orchard, Jr. 2,404,738; July 23.
Paint, Aqueous emulsion. M. T. Schmidt. 2,404,463; July 23.
Parachute. C. Rohulick. 2,404,659; July 23.
Parachute, Vented. C. A. Volf. 2,404,672; July 23.
Particle apportioning device. M. Cohen and G. A. Jorgenson. 2,404,694; July 23.
Pasting machine, Counter. C. M. Bagshaw. 2,404,345; July 23.
Pessary, Self-supporting. Y. H. Kurkjian. 2,404,384; July 23.
Pipe forming machine. E. F. Sewell. 2,404,464; July 23.
Pipe, Smoker's. J. Leedy and L. Patrick. 2,404,733; July 23.
Piston. B. W. Olin. 2,404,651; July 23.
Piston and connecting rod mechanism. A. Zemen. 2,404,470; July 23.
Piston assembly, Valved pump. O. A. Kehle. 2,404,502; July 23.
Piston ring. H. M. Bramberry. 2,404,616; July 23.
Plastic material, Readily combustible. H. A. Bruson and G. B. Butler. 2,404,688; July 23.
Plastic material, Transparent. B. Andersen. 2,404,422; July 23.
Plastic materials, Plasticizing or plasticating. F. M. Roddy. 2,404,406; July 23.
Plug: *See*—
Electric fuse connection plug.
Plug and socket connector. L. F. Baker. 2,404,682; July 23.
Polyfluorinated cycloparaffins and producing them. J. Harmon. 2,404,374; July 23.
Polymer compositions and their preparation. W. H. Charch. 2,404,726; July 23.
Polymer products. V. L. Hansley. 2,404,716; July 23.
Polymer products. R. C. Houtz. 2,404,720; July 23.
Polymer products. G. H. Latham. 2,404,714; July 23.
Polymer products and producing same. R. C. Houtz. 2,404,721; July 23.
Polymer solutions. A. O. Rogers. 2,404,715; July 23.
Polymer solutions. A. O. Rogers. 2,404,725; July 23.
Polymer solutions, Acrylonitrile. R. C. Houtz. 2,404,722; July 23.
Polymer solutions, Preparation of. R. R. Merner. 2,404,723; July 23.
Polymeric solutions, Preparing. T. G. Finzel. 2,404,728; July 23.
Polymeric solutions, Preparing. R. C. Houtz. 2,404,713; July 23.
Polymerization products from aromatic carbonyl compounds and aromatic vinyl compounds. U. Hoffmann and H. Meis. 2,404,711; July 23.
Polymers, Dissolving of. R. C. Houtz. 2,404,718; July 23.
Polymers, Dissolving of. R. C. Houtz. 2,404,727; July 23.
Polymers, Preparing solutions of. R. C. Houtz. 2,404,724; July 23.
Power plant, Thermal. F. Salzmann. 2,404,748; July 23.
Press: *See*—
Forging press.
Pressure sealing-means. R. L. Skinner. 2,404,664; July 23.
Propeller, Variable pitch air. E. Florian, H. Petersen, and M. Christian. 2,404,703; July 23.
Propulsion mechanism, Amphibian. J. M. Hait. 2,404,486–8; July 23.
Propulsion mechanism, Amphibian. J. M. Hait. 2,404,490; July 23.
Protector for heating, cutting and welding torches, and the like, Heat concentrating nozzle. R. D. Nantz. 2,404,590; July 23.
Pump: *See*—
Hydraulic pump.
Pumping mechanism. J. R. Norton. 2,404,524; July 23.
Rack: *See*—
Tire rack.
Radio beacon. S. B. Pickles. 2,404,400; July 23.
Radio beacon system. F. G. Kear. 2,404,501; July 23.
Radio mounting structure. M. C. Poylo. 2,404,403; July 23.

Radio receiving apparatus. A. D. Smith, Jr. 2,404,408; July 23.
Radius to tangent compound angle dresser. E. V. Statia, Sr. 2,404,465; July 23.
Railway journal box. R. J. Brittain, Jr. 2,404,429; July 23.
Railway truck spring brake. A. C. Davidson. 2,404,475; July 23.
Ram adjustment, Booster. B. D. Ashbaugh. 2,404,611; July 23.
Rayon, Manufacture of large permeable packages of. J. J. Polak and A. L. Jackson. 2,404,742; July 23.
Receiver, Sound. H. C. Hayes. 2,404,764; July 23.
Receiving and translating apparatus, Signal. A. W. Plensler. 2,404,401; July 23.
Reel, Fishing. J. Fiori. 2,404,702; July 23.
Refrigerating method and apparatus. N. E. MacLean. 2,404,511; July 23.
Regulator. L. H. Von Ohlsen. 2,404,674; July 23.
Regulator for electron discharge devices, Voltage. R. B. Dome. 2,404,624; July 23.
Relay, Electromagnetic. F. E. Wood. 2,404,469; July 23.
Rendering bombs inactive. N. M. Hopkins. 2,404,441; July 23.
Repeater, Tone frequency signal. W. E. Simpson. 2,404,754; July 23.
Resilient wheel. C. E. Workman. 2,404,581; July 23.
Resonator for oscillators. D. H. Sloan. 2,404,542; July 23.
Ring: *See*—
  Piston ring.
Rod: *See*—
  Curling rod.
Roller bearing retainer. J. E. Lewis. 2,404,642; July 23.
Rotameter. N. Brewer. 2,404,361; July 23.
Rotatable structures, Means to turn. F. B. Lane. 2,404,639; July 23.
Rubber and its manufacture, Synthetic. A. Maximoff. 2,404,392; July 23.
Sack lifter. F. W. Rodgers and A. M. Palmer. 2,404,533; July 23.
Scale, Recording. L. C. Barnes and R. B. Holt. 2,404,562; July 23.
Sampling device. K. L. Hertel. 2,404,708; July 23.
Sawing machine, Metal. T. Hasegawa. 2,404,707; July 23.
Scraper, Two-wheeled cable operated rear dump. H. C. French. 2,404,482; July 23.
Screens, Beading projection. J. H. Owens. 2,404,454; July 23.
Screw driver, Expansible jaw. S. Bloomfield. 2,404,427; July 23.
Seal, Oil. H. C. Abell. 2,404,610; July 23.
Seal, Rotary. E. G. Halby and R. J. Bushong. 2,404,494; July 23.
Seal, Shaft. M. Caserta. 2,404,690; July 23.
Secondary multiplication power tube. A. A. Varela. 2,404,417; July 23.
Shield for all types of airplane engines, Heating. R. F. Miller. 2,404,394; July 23.
Shock absorbing device. J. R. Snyder. 2,404,666; July 23.
Shoes, Making. K. A. Stritter. 2,404,546; July 23.
Shuttle, Weaver's. R. Schmidt. 2,404,749; July 23.
Sight director. J. James. 2,404,379; July 23.
Signal source, Tunable underwater. L. G. Bostwick. 2,404,360; July 23.
Signaling system, Secret. C. E. Atkins. 2,404,354–6; July 23.
Ski runner. E. Porter. 2,404,402; July 23.
Skid brake. N. B. Irving. 2,404,443; July 23.
Slip, Lady's. L. S. Milberg. 2,404,451; July 23.
Slug forming and feeding mechanism, Plastic. B. D. Ashbaugh. 2,404,559; July 23.
Soldering apparatus. S. G. Johansson and H. C. Slechta. 2,404,730; July 23.
Solid organic polymers, Surface characteristics of. M. F. Bechtold and P. S. Pinkney. 2,404,426; July 23.
Solutions, Preparation of. R. C. Houtz. 2,404,717; July 23.
Steering mechanism, Amphibian. J. M. Hait. 2,404,491; July 23.
Steering mechanism, Amphibian. D. R. Rankin and G. A. Reynolds, Jr. 2,404,528; July 23.
Stitching machine, Automatic tire. C. S. McChesney. 2,404,449; July 23.
Strainer, Grease. E. W. Davis. 2,404,621; July 23.
Suit, Partitioned inflatable. R. S. Colley. 2,404,567; July 23.
Sulphanilylsulphanilamide derivatives. M. L. Moore. 2,404,737; July 23.
Sulphone and preparing same. L. L. Bambas. 2,404,560; July 23.
Support for bulkheads, Adjustable conduit. B. F. Schmidt. 2,404,539; July 23.
Support for fountain syringes, Hanging. J. A. Brooks. 2,404,430; July 23.
Supporter, Baby. M. P. Knecht. 2,404,565; July 23.
Switch for elevators, Overload safety. F. F. Turner. 2,404,415; July 23.
Switch operating mechanism. G. M. Hausler. 2,404,633; July 23.
Synchronizer, Flashlight and shutter. F. A. G. Pirwitz. 2,404,526; July 23.
Synchronizing mechanism. W. G. H. Finch. 2,404,571; July 23.
Tank: *See*—
  Fuel tank. Noncombustible fuel tank.
Tappet, Self cleaning and lubricating valve. H. H. Engemann. 2,404,478; July 23.
Telegraphy. R. W. Bumstead. 2,404,565; July 23.
Telephone or like system. R. Taylor, G. T. Baker, and A. C. Corner. 2,404,466; July 23.
Telephoto system. A. G. Cooley. 2,404,566; July 23.
Test apparatus, Bending modulus. J. W. Liska and F. S. Grover. 2,404,584; July 23.
Textiles and the like, and apparatus therefor, Continuous printing. V. Carlsen, A. Heinrich, and D. L. Ballou. 2,404,350; July 23.
Therapeutic composition. M. R. Thompson, N. J. Accousti, and V. Fisher. 2,404,667; July 23.
Thermostatic overload relay. G. C. Armstrong. 2,404,352; July 23.
Thiocyanates, Prevention of formation of colors in. W. H. Hill and J. H. F. Veltman. 2,404,576; July 23.
Tire construction. W. S. Coben. 2,404,579; July 23.
Tire rack. F. L. Sargent and W. J. Crader. 2,404,534; July 23.
Tire removing tool. W. H. McCollister. 2,404,583; July 23.
Toluene, Production of. V. N. Ipatieff and G. S. Monroe. 2,404,498; July 23.
Tongue, Wagon, trailer and implement. K. G. Myers. 2,404,521; July 23.
Tool: *See*—
  Alignment tool. Tire removing tool.
Tool. Z. C. Van Schwartz. 2,404,580; July 23.
Torque transmitting mechanism. A. Y. Dodge. 2,404,623; July 23.
Toy. R. P. Ellis. 2,404,477; July 23.
Toy ski jumper. K. Graetz. 2,404,572; July 23.
Toy vehicle. G. Lindgren. 2,404,506; July 23.
Toy, Water. V. H. Hurt. 2,404,729; July 23.
Tractor, Agricultural. H. Hutchings. 2,404,442; July 23.
Tractor implement. E. V. Moran. 2,404,518; July 23.
Transmission. A. O. Roberts and J. J. Wharam. 2,404,657; July 23.
Transmission line, Adjustable. S. B. Pickles. 2,404,399; July 23.
Trap: *See*—
  Animal trap.
Tray, Dental. H. Barishman. 2,404,684; July 23.
Trimmer, Rotary lawn. M. Klose. 2,404,504; July 23.
Trimming mechanism. C. Jobst. 2,404,300; July 23.
Trolley, Monorail. G. C. Henderson. 2,404,376; July 23.
Tube: *See*—
  Secondary multiplication power tube.
Turbine apparatus. D. Bradbury. 2,404,428; July 23.
Turbine, Fluid. A. F. G. Glaser. 2,404,371; July 23.
Turning apparatus, Glove. R. E. Bartimore. 2,404,346; July 23.
Turret mounting. D. Roeder and E. Nador. 2,404,459; July 23.
Ultra high frequency electron discharge device system. W. van B. Roberts. 2,404,745; July 23.
Ultra high frequency signal-translating apparatus. R. B. Lawrance. 2,404,640; July 23.
Valve. W. R. Brant and H. G. Chapman, Jr. 2,404,349; July 23.
Valve. L. O. Reichelt and D. V. Waters. 2,404,529; July 23.
Valve device. G. T. McClure. 2,404,514; July 23.
Vehicle: *See*—
  Toy vehicle.
Vent system, self-locking. P. H. Valentyne. 2,404,765; July 23.
Vertical mixer. T. Jensen. 2,404,380; July 23.
Vitamin fractionation, Fat-soluble. L. O. Buxton. 2,404,618; July 23.
Vulcanizing mold and operation. W. E. Humphrey. 2,404,636; July 23.
Walls, Constructing. P. J. O'Connor. 2,404,396; July 23.
Washing machine. H. C. A. Meyer. 2,404,450; July 23.
Water purification. W. W. Durant and W. A. Blann. 2,404,367; July 23.
Welding apparatus, Electric resistance. H. H. Hansen. 2,404,632; July 23.
Well logging apparatus. R. L. Doan. 2,404,622; July 23.
Wheel: *See*—
  Resilient wheel.
Wheel arrangement, Guide. H. Kornblutt. 2,404,383; July 23.
Wheel structure. G. A. Lyon. 2,404,388-9-0; July 23.
Wheels, Mounting device for dual. H. G. Mosher. 2,404,520; July 23.
Winch. G. H. Esch. 2,404,368; July 23.
Winery slops, Treatment of. E. C. Pattee. 2,404,398; July 23.
Worm drive, Antifriction. H. S. Hoffar. 2,404,378; July 23.
Writing device. M. Berliner. 2,404,563; July 23.

CLASSIFICATION OF PATENTS

ISSUED JULY 23, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2—	27: Re.22,773	60—	97: 2,404,611	121—	164: 2,404,747	179—	9: 2,404,466	244—	5: 2,404,544	260—	668: 2,404,591
	73: 2,404,451	62—	91.5: 2,404,511	122—	382: 2,404,516	180—	1: 2,404,442		17: 2,404,522		669: 2,404,538
	194: 2,404,634		108.5: 2,404,431	123—	51: 2,404,543	181—	45: 2,404,589		110: 2,404,381		671: 2,401,498
5—	86: 2,404,734	67—	7.1: 2,404,435		78: 2,404,467	183—	34: 2,404,347		135: 2,404,765		2,404,536
9—	8: 2,404,594		29: 2,404,526		90: 2,404,478		49: 2,404,468		142: 2,404,672		673: 2,404,628
	8.3: 2,404,681	68—	58: 2,404,450		123: 2,404,645		57: 2,404,358		145: 2,404,659		676: 2,404,599
	17: 2,404,729	72—	117: 2,404,481		179: 2,404,419	187—	29: 2,404,415	248—	68: 2,404,531		2,404,607
12—	4: 2,404,497	73—	15: 2,404,474		193: 2,404,348	188—	129: 2,404,666		74: 2,404,473		2,404,661
	80: 2,404,345		15.6: 2,404,584	125—	11: 2,404,465		141: 2,404,397		206: 2,404,412		683.4: 2,404,393
	136: 2,404,508		209: 2,404,361	126—	110: 2,404,394	189—	82: 2,404,570		358: 2,404,403		2,404,483
	142: 2,404,546		421: 2,404,373		2,404,592	192—	3.2: 2,404,657	250—	1: 2,404,527		2,404,537
	2,404,586	74—	10: 2,404,377		116: 2,404,617		8: 2,404,615		6: 2,404,354		683.5: 2,404,436
	146: 2,404,731		50: 2,404,470		2,404,646	193—	41: 2,404,443		7: 2,404,696		2,404,444
15—104.01:	2,404,507		91: 2,404,639		2,404,647		43: 2,404,480		11: 2,404,400		2,404,499
18—	12: 2,404,630		293: 2,404,623		2,404,676	196—	49: 2,404,452		2,404,501		2,404,551
	15: 2,404,582		300: 2,404,380		280: 2,404,520		2,404,595		16: 2,404,404		2,404,649
	16: 2,404,631		389: 2,404,752	128—	128: 2,404,384		94: 2,404,677		17: 2,404,745		776: 2,404,585
	30: 2,404,559		458: 2,404,378		144: 2,404,567	198—	94: 2,404,629		20: 2,404,408	261—	59: 2,404,679
	34: 2,404,448		501: 2,404,580		146: 2,404,686		179: 2,404,460		2,404,626		97: 2,404,479
	47.5: 2,404,665		572: 2,404,515	131—	202: 2,404,733	200—	17: 2,404,633		2,404,669	262—	7: 2,404,605
	2,404,671		615: 2,404,675	132—	34: 2,404,517		86: 2,404,644		2,404,712		33: 2,404,540
	48: 2,404,406	75—	41: 2,404,461	137—	139: 2,404,349		97: 2,404,469		27: 2,404,359	263—	22: 2,404,650
	48.2: 2,404,761	77—	3: 2,404,433	139—	210: 2,404,749		115.5: 2,404,407		2,404,417	265—	54: 2,404,601
	53: 2,404,636	78—	39: 2,404,351	143—	43: 2,404,655		122: 2,404,352		2,404,643	266—	5: 2,404,656
19—	12: 2,404,458	85—	32: 2,404,372	145—	50: 2,404,427	201—	48: 2,404,455		27.5: 2,404,413		23: 2,404,600
	16: 2,404,457	86—	29: 2,404,434	146—	102: 2,404,557		51: 2,404,674		2,404,658		37: 2,404,364
	115: 2,404,708	88—	1: 2,404,746		164: 2,404,762	204—	153: 2,404,453		36: 2,404,541	267—	4: 2,404,475
20—	6: 2,404,471		102: 2,404,472	152—	209: 2,404,579		190: 2,404,405		2,404,568	268—	120: 2,404,432
	26: 2,404,554	89—	1: 2,404,441		342: 2,404,578	206—	17.5: 2,404,430		2,404,640	271—	2.3: 2,404,421
23—	37: 2,404,550		36: 2,404,459	153—	64: 2,404,424	209—	377: 2,404,593	253—	67: 2,404,371		59: 2,404,756
	75: 2,404,576	90—	17: 2,404,561	154—	10: 2,404,449		467: 2,404,414	254—	8: 2,404,577	273—	9: 2,404,693
	288: 2,404,574		21: 2,404,439		43.5: 2,404,766	210—	16: 2,404,701	259—	30: 2,404,694		101: 2,404,652
25—	36: 2,404,464	91—	18: 2,404,454		48: 2,404,758		24: 2,404,367	260—	4: 2,404,608		101.1: 2,404,653
	39: 2,404,386	92—	68: 2,404,606	155—	1: 2,404,505		166: 2,404,621		22: 2,404,411	277—	21: 2,404,514
	154: 2,404,396	95—	11: 2,404,556	157—	6: 2,404,583	211—	71: 2,404,513		28: 2,404,519	280—	28: 2,404,402
29—	74: 2,404,707		36: 2,404,366	158—	2: 2,404,663	213—	49: 2,404,637		29: 2,404,740		30: 2,404,673
	148: 2,404,456	97—	47: 2,404,518		27.4: 2,404,423	214—	141: 2,404,619		32: 2,404,713		33.44: 2,404,362
	157.3: 2,404,575	99—	5: 2,404,398		2,404,590	215—	40: 2,404,409		2,404,714		2,404,521
30—	322: 2,404,495		140: 2,404,763	163—	8: 2,404,755		2,404,410		2,404,715		87.02: 2,404,506
32—	18: 2,404,684	100—	42: 2,404,382	164—	47: 2,404,500		2,404,741		2,404,716	282—	19: 2,404,683
33—	1: 2,404,638		70: 2,404,369	166—	12: 2,404,692	219—	4: 2,404,620		2,404,717	285—	9: 2,404,494
	49: 2,404,379	101—	169: 2,404,689	167—	30: 2,404,698		2,404,632		2,404,718		30: 2,404,539
	147: 2,404,750		423: 2,404,350		63: 2,404,667		8: 2,404,383		2,404,719		49: 2,404,484
	178: 2,404,751	102—	70.2: 2,404,553		81: 2,404,365		2,404,437		2,404,720		90: 2,404,447
	204: 2,404,603	103—	46: 2,404,524		2,404,618		46: 2,404,736		2,404,721		2,404,549
34—	81: 2,404,732		87: 2,404,635	170—	163: 2,404,703	220—	35: 2,404,558		2,404,722	286—	11: 2,404,610
35—	66: 2,404,563		115: 2,404,678		2,404,743		88: 2,404,418		2,404,723		2,404,690
36—	19.5: 2,404,587		178: 2,404,502	171—	325: 2,404,662	222—	456: 2,404,496		2,404,724		26: 2,404,664
37—	100: 2,404,482		2,404,547		327: 2,404,445	223—	40: 2,404,346		2,404,725	287—	103: 2,404,523
	144: 2,404,759	104—	93: 2,404,376	172—	239: 2,404,641	224—	29: 2,404,534		2,404,726		119: 2,404,385
	2,404,760	106—	30: 2,404,680	173—	324: 2,404,564		45: 2,404,699		2,404,727	292—	172: 2,404,670
42—	20: 2,404,555		143: 2,404,463		328: 2,404,682		48: 2,404,532		2,404,728	294—	15: 2,404,533
43—	88: 2,404,744		189: 2,404,353	175—	182: 2,404,622		2,404,685		50: 2,404,711		67: 2,404,602
	112: 2,404,687	110—	8: 2,404,705		363: 2,404,614	229—	3.5: 2,404,422		78: 2,404,688		87: 2,404,625
46—	129: 2,404,477	113—	59: 2,404,730		367: 2,404,710		5.5: 2,404,485		92: 2,404,392	295—	11: 2,404,581
	130: 2,404,572	114—	240: 2,404,440	177—	326: 2,404,757		15: 2,404,704		125: 2,404,446	299—	84: 2,404,548
47—	34: 2,404,370		241: 2,404,612		353: 2,404,401	230—	128: 2,404,609		239.6: 2,404,560	301—	36: 2,404,520
51—	72: 2,404,613	115—	1: 2,404,486		386: 2,404,360		208: 2,404,660		2,404,737		37: 2,404,388
	123: 2,404,573		2,404,487		2,404,375	234—	5.4: 2,404,562		302: 2,404,416		2,404,389
	215: 2,404,648		2,404,488		2,404,391	235—	61: 2,404,387		309.5: 2,404,509		2,404,390
	217: 2,404,525		2,404,489		2,404,764		2,404,697		2,404,510	308—	22: 2,404,535
	241: 2,404,604		2,404,490	178—	2: 2,404,654		78: 2,404,709		345: 2,404,700		180: 2,404,429
	293: 2,404,598		2,404,491		6.6: 2,404,566	236—	91: 2,404,596		348.5: 2,404,438		235: 2,404,420
56—	25.4: 2,404,504		2,404,492		22: 2,404,355		2,404,597		397.4: 2,404,768		2,404,642
57—	66: 2,404,742		2,404,493		44: 2,404,399	240—	1: 2,404,627		469: 2,404,588	309—	4: 2,404,651
60—	35.6: 2,404,767		2,404,528		2,404,542		10.66: 2,404,735		473: 2,404,691		44: 2,404,616
	41: 2,404,428	117—	65: 2,404,357		61: 2,404,565		41: 2,404,476		534: 2,404,503	315—	22: 2,404,624
	49: 2,404,395		138.8: 2,404,426		66: 2,404,754		54: 2,404,753		551: 2,404,695		2,404,738
	53: 2,404,668	121—	41: 2,404,512		69.5: 2,404,571	242—	1: 2,404,462		609: 2,404,425		39: 2,404,363
	59: 2,404,748		2,404,552	179—	1.5: 2,404,356		85: 2,404,702		648: 2,404,374		230: 2,404,739
	97: 2,404,545		46.5: 2,404,529		2: 2,404,569		158: 2,404,368		653: 2,404,706		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,404,363: 315— 39	2,404,471: 20— 6	2,404,544: 244— 5	2,404,628: 260— 673	2,404,687: 43— 112	2,404,736: 219— 46
2,404,376: 104— 93	2,404,477: 46— 129	2,404,555: 42— 20	2,404,634: 2— 194	2,404,689: 101— 169	2,404,738: 315— 22
2,404,392: 260— 92	2,404,494: 285— 9	2,404,566: 178— 6.6	2,404,673: 280— 30	2,404,694: 259— 30	2,404,739: 315— 230
2,404,426: 117—138.8	2,404,533: 294— 15	2,404,624: 315— 22	2,404,679: 261— 59	2,404,697: 235— 61	2,404,757: 177— 326
2,404,456: 29— 148					

Classification of Designs

D 3—26: Des. 145,247	D44—29: Des. 145,245	D45—19: Des. 145,252	D45—19: Des. 145,267	D48—16: Des. 145,274	D86—10: Des. 145,255
Des. 145,248	D45— 9: Des. 145,262	Des. 145,253	Des. 145,268	32: Des. 145,277	D87— 3: Des. 145,254
Des. 145,249	Des. 145,263	Des. 145,258	Des. 145,269	Des. 145,278	
32: Des. 145,246	Des. 145,264	Des. 145,259	Des. 145,270	Des. 145,279	
D 9— 2: Des. 145,276	Des. 145,265	Des. 145,260	Des. 145,271	D52— 2: Des. 145,243	
D17— 6: Des. 145,256	19: Des. 145,250	Des. 145,261	Des. 145,272	D58— 6: Des. 145,275	
D29—20: Des. 145,257	Des. 145,251	Des. 145,266	Des. 145,273	D74— 1: Des. 145,244	

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 588—No. 5 TUESDAY, JULY 30, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of July 30, 1946	671
Adjudicated Patent	671
Notice—Title of Invention	671
Notices	671
Interference Notice	671
Applications Under Examination	672
Decisions of the U. S. Courts—	
Polaroid Corporation and Smith *v.* Markham, Allen Property Custodian, and Ooms, Commissioner of Patents	673
Rider *v.* Griffith	674
In re Locke Stove Company	677
Disclaimers	678
Notices of Cancellation	678
Register of Patents Available for Licensing or Sale	679
Bulletin of Decisions of Patent Office on Trade-Marks	681
Trade-Mark Registrations Granted	687
Trade-Mark Registrations Renewed	690
Reissues	695
Patents Granted	696
Designs	781

July 30, 1946

Trade-Marks	76—No.	422,534	to No. 422,609,	inclusive.
T. M. Renewals	94			
Reissues	2—No.	22,774	to No. 22,775,	inclusive.
Patents	338—No.	2,404,769	to No. 2,405,106,	inclusive.
Designs	66—No.	145,280	to No. 145,345,	inclusive.
Total	576			

Adjudicated Patent

(D. C. N. J.) Jungersen patent, No. 2,118,468, for a method for jewelry casting, claims 1 to 4, inclusive, *Held* valid and claims 5 and 6 *Held* invalid. *Ostby & Barton Co. v. Jungersen,* 65 F. Supp. 652; 69 USPQ 362.

Notice

TITLE OF INVENTION

U. S. Patent Office, *Washington 25, D. C., July 1, 1946.*

The title of the invention in each application should be as specific as possible. General titles do not serve to throw any helpful light on the nature of the invention.

Where the title is not specific to the invention claimed, the examiner should require the substitution of a new title that is clearly indicative of the invention to which the claims are directed. This may result in slightly longer titles, but the loss in brevity of title will be more than offset by the gain in its informative value in indexing, classifying, searching, etc. If a satisfactory title is not supplied by the applicant, the examiner may change the title by Examiner's Amendment on or after allowance.

CASPER W. OOMS,
Commissioner.

Interference Notice

U. S. Patent Office, *Richmond, Va., July 15, 1946.*

James T. Hiroto, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Salinas Valley Vegetable Exchange, P. O. Box 247, Salinas, Calif., for registration of a trade-mark and trade-mark registered February 17, 1942, No. 393,497, to James T. Hiroto, P. O. Box 103, Coachella, Calif., and the Office having been unable to procure service of the notice of such declaration upon said Hiroto, notice is hereby given that unless said Hiroto, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notices

Many attorneys make a practice of sending in amendments in duplicate with a request that the extra copy be returned.

The Patent Office has neither the time nor the force to return these extra copies and they will therefore be destroyed.

Any attorney wishing a receipt for any paper should accompany the paper by a postal card addressed to himself and identifying the paper. The receiving stamp of the mail room will be placed on this card and it will be dropped in the outgoing mail.

U. S. Patent Office, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notice

United States Patent Office, Washington 25, D. C.

Under the act signed July 5, 1946, the price of copies of patents is increased from ten cents to twenty-five cents. The price of copies of trade-marks and designs remains at ten cents.

J. A. BREARLEY,
Chief Clerk.

July 11, 1946.

Condition of Applications Under Examination at Close of Business July 13, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 117,934; Trade-Mark Division, 8,033. Oldest new case, February 2, 1945; oldest amended, February 20, 1945.)

(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
ODBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and ers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Apr. 7	May 12	1983
RMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; ses; Tobacco; Textile Wringers; Butcheries.	Apr. 16	May 2	2456
MMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	Apr. 19	Apr. 19	1848
OP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; ders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying Ice Harvesting.	June 27	July 30	2035
NSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, ps.	Mar. 26	Mar. 23	3193
ESSE, E. W., Carbon Chemistry (part)	Aug. 24	Aug. 17	1774
OE, C. G., Optics, Photography	Sept. 7	Sept. 5	2072
, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 25	July 2	2664
SON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 2	Mar. 30	1945
RUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation erators, Wave Meters, Tuners); Modulators.	June 16	June 20	1370
HAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manu- ures; Nailing and Stapling; Whip Apparatus.	Dec. 10	Dec. 14	599
TMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 15	June 6	2127
LL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 27	1826
LIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 4	Aug. 22	1271
KIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Com- nds (part); Plastics.	June 28	Aug. 20	1374
EWELL, N. N., Telegraphy; Telephony	July 7	June 25	1234
ECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Fold- Sheet or Web Feeding; Type Setting.	Feb. 12	Feb. 20	1131
Z, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal nbustion Engines.	May 28	June 2	1658
RICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 4	Sept. 11	1393
WN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and nfection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1580
MPSON, T. J., Textiles	Aug. 31	Oct. 26	755
PENTER, B. H., Aeronautics; Firearms; Ordnance	Aug. 4	June 29	1676
IS, J. B., Cash Registers; Calculators (part)	May 28	June 6	263
BY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Sept. 4	Sept. 19	1060
KELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat tters and Comminutors; Distillation.	June 1	May 31	1451
NG, R. R., Electricity—Generation and Motive Power	May 2	May 7	1853
RK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 3	Apr. 9	1882
YOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons.	May 8	May 3	1300
LARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	May 19	May 19	1954
HOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humido- ts; Heating Systems; Ammunition and Explosive Devices.	May 21	June 12	2082
NCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 26	Dec. 13	989
H, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; rth Boring.	Aug. 6	Aug. 17	1658
, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; stic Block and Earthenware Apparatus.	May 25	May 28	2358
ERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	July 20	1096
MLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Am- mition and Explosive Charge Making.	June 29	July 31	1630
ADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 10	May 30	1308
AVER, M. E., Electricity, Circuit Makers and Breakers	May 28	May 3	1399
FFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	May 21	July 3	1253
ITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 10	Apr. 18	2154
JMMOND, E. J., Receptacles (part); Packages	Aug. 13	Aug. 24	2177
RTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting achines; Check-Controlled Apparatus.	Mar. 22	Feb. 24	791
RANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Aug. 23	Aug. 17	948
NE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; uid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 1	May 11	1361
RVEY, L. P., Refrigeration; Preserving	Mar. 27	May 2	1068
L, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrica- n; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land hicles (part); Spring, Weight and Horsepower Motors.	June 28	June 21	2131
ACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; quid Heaters and Vaporizers; Coating Apparatus.	July 7	July 28	1248
NOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Sept. 8	Sept. 4	2258
RNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 22	Mar. 23	1815
FFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Puri- ation.	July 28	July 30	1403
VIN, SAMUEL, Synthetic Resins	July 17	July 23	2224
EDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Re- ivers, Antennae).	May 1	May 1	2141
OTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fasten- gs; Pipes and Tubular Conduits.	Apr. 9	May 4	2814
NDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Station- y; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Parti- ons and Panels, Flexible and Portable.	Apr. 10	Apr. 13	2728
RACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; ght Sensitive Circuits; Ray Energy Applications.	Apr. 26	May 3	2019
WEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 7	July 7	1566
CKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	May 16	May 17	1549
OLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, ail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 2	Mar. 8	3442
WELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Nov. 8	Oct. 24	1089
EPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Apr. 12	Apr. 20	2020
ASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Con- mable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 25	Apr. 27	1862
NG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; ailway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 21	May 31	2245
GH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Feb. 26	Mar. 28	3017
NKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); ils and Fats.	Apr. 21	Apr. 24	2027
SH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 8	Dec. 7	1210
DERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave ransmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 8	May 10	2241
-MARKS: RICHMOND, F. A	Nov. 26	†Mar. 19	8033
S: KALUPY, H. H.	Oct. 26	†Feb. 4	5816

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

POLAROID CORPORATION AND SMITH

v.

MARKHAM, ALIEN PROPERTY CUSTODIAN,

AND

OOMS, COMMISSIONER OF PATENTS

No. 8,854. Decided September 24, 1945.

[151 F.(2d) 89; 67 USPQ 1]

1. SUIT UNDER SECTION 4915 R. S.—INTERFERENCE—FINDINGS.

"Reports of testimony, without more, are not adequate findings of fact."

2. SAME—SAME—SAME.

"Since operativeness, reduction to practice, and priority of invention are questions of fact, it was error to designate findings on these matters as conclusions of law. This error would be largely formal, and probably would not require a remand, if we could get a clear understanding of the basis of the court's judgment."

3. SAME—SAME—SAME.

"We must set aside the judgment and remand the case for a fuller compliance with the requirement of F. R. C. P. Rule 52(a) that the court 'find the facts specially and state separately its conclusions of law thereon . . .'"

APPEAL from the District Court of the United States for the District of Columbia. Remanded.

Mr. Charles Mikulka (*Mr. Cecil A. Beasley* and *Mr. Nathaniel R. French* of Counsel) for Polaroid Corporation and Smith.

Mr. B. F. Garvey (*Mr. Harry LeRoy Jones* and *Mr. Irving J. Levy* of counsel) for the Alien Property Custodian.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before GRONER, *Chief Justice*, and MILLER and EDGERTON, *Associate Justices*

PER CURIAM:

This is an appeal from a judgment of the District court in a suit under R. S. § 4915 to obtain a patent. The claim relates to a polarizing film placed between layers of transparent material. The film merges gradually, with decreasing polarizing effect, into the surrounding material. In December, 1939, a patent on this claim was awarded to Sauer, a German national whose rights are now vested in appellee the Alien Property Custodian. In June, 1940, Smith filed an application on the same claim. In an interference proceeding, priority was awarded to Sauer. Smith and his assignee the Polaroid Corporation, the present appellants, then brought this suit. The district court, after a hearing, dismissed the complaint.

It is not disputed that appellant Smith was the first to conceive the idea. In order to establish priority of invention Smith produced evidence to show (1) that he had been first to reduce the invention to practice and (2) that Sauer's disclosure was inoperative. This evidence was uncontradicted. The district court made the following "findings of fact": "9. For the purpose of proving inoperativeness of the Sauer specification . . . the witness Blake was examined by plaintiff . . . 12. Chubb testified that under the direction of Smith, on April 17, 1936, a sheet of polarizing material having a tapering thickness . . . was made by him . . . 13. Additional testimony from the witnesses Chubb, Blake and Smith was obtained . . . on the issue of actual reduction to practice of Smith," The court also made "conclusions of law" which included the following: "4. The plaintiff Smith has failed to prove reduction to practice of the invention at issue, prior to his filing date, June 26, 1940. 5. Proofs offered by the plaintiffs herein failed to show inoperativeness of the defendant Sauer's specification as to the subject matter of the count here at issue. 6. Sauer is the first inventor . . ."

[1][2][3] Reports of testimony, without more, are not adequate findings of fact. Since operativeness, reduction to practice, and priority of invention are questions of fact, it was error to designate findings on these matters as conclusions of law. This error would be largely formal, and probably would not require a remand, if we could get a clear understanding of the basis of the court's judgment. Cf. *Minnesota Mining & Mfg. Co.* v. *Coe*, 75 U. S. App. D. C. 131, 125 F.(2d) 198, 535 O. G. 691. But we cannot tell, from the findings and conclusions, whether the court disbelieved the uncontradicted testimony of appellants' witnesses or whether it considered that this testimony though true failed for some reason or reasons of law to establish inoperativeness and reduction to practice. The record of the proceedings in the Patent Office does not help us; no evidence was offered there on the issue of inoperativeness, and on the issue of reduction to practice the appellants presented considerable additional evidence in the district court. Accordingly we must set aside the judgment and remand the case for a fuller compliance with the requirement of F. R. C. P. Rule 52(a) that the court "find the facts specifically and state separately its conclusions of law thereon . . ." Cf. *United States* v. *Esnault-Pelterie*, 299 U. S. 201, 476 O. G. 483; *Interstate Circuit, Inc.*, v. *United States*, 304 U. S. 55; *Saginaw Broadcasting Co.* v. *Federal Communications Commission*, 68 App. D. C. 282, 287, 96 F.(2d) 554.

Remanded.

U. S. Court of Customs and Patent Appeals

RIDER v. GRIFFITH

No. 5,108. Decided March 6, 1946

[154 F.(2d) 193; 69 USPQ 112]

1. INTERFERENCE—ORIGINALITY.

"Since this issue is confined to originality, it will be sufficient for us to determine whether or not Rider has proved that Griffith derived the invention from him. The interesting analysis of the evidence by the board in holding that Rider failed to prove that he was in possession of the invention as alleged may properly, we think, be ignored here since it is immaterial whether Rider has met the requirements of the law to prove that he was, as alleged, in possession of the invention if it is held, as we do herein hold, that Rider has not satisfactorily shown that Griffith derived the invention from him."

2. SAME—SAME.

"Since it is obvious that the weight of the direct evidence on the question of originality is not with Rider, who bore the burden, Rider urges the application of the principles relating to circumstantial evidence. Since in this kind of case and in instances where fraud is the fact to be established the facts are difficult of direct proof and are usually shown by related circumstances, it is proper to here consider all the related circumstances shown in the record."

3. EVIDENCE—CIRCUMSTANCES.

"The circumstances relied upon to prove a fact must point to the existence of the fact to be established with reasonable certainty and may not be accepted as being fully probative of the fact to be proved unless they are consistent therewith and inconsistent with any other rational theory."

4. INTERFERENCE—ORIGINALITY.

Circumstances showing a strong motive and an abundance of opportunity for Griffith to have derived his invention from Rider *Held* insufficient alone to establish derivation.

5. SAME—SAME.

"Rider has failed to meet the burden of proof on the question of originality and since a determination of this issue is conclusive of the case it follows that the decision of the Board awarding priority of invention of the counts involved to Griffith must be affirmed."

APPEAL from the Patent Office. Affirmed.

Mr. W. B. Harpman (*Mr. Emory L. Groff* and *Mr. Herbert M. Birch* of counsel) for Rider.

Mr. W. Lee Helms for Griffith.

BLAND, *J.*:

This is an appeal by the senior party, Rider, from a decision of the Board of Interference Examiners of the United States Patent Office in which priority of the invention defined by six counts was awarded to the junior party, Griffith.

The issue with which we are here concerned is originality. Rider, in his brief, states:

The issue is originality. Rider charges that Griffith derived the invention from him, through one, E. A. Lowe and/or S. T. Van Houten, while the latter and Rider were employed by The Automatic Sprinkler Company of America. Hence, Rider being the original and first inventor, whatever Griffith did inures to Rider's benefit.

The invention relates to a thermostat responsive to heat which will close a circuit and put into operation a fire alarm system.

The device is somewhat larger than a pocket watch, the lower portion of which, when attached to the ceiling, is in the form of a thin metallic, semi-spherical shell. On the inside of the shell portion is a V-shaped spring metal strip, one end of which is securely fastened to the wall of the shell, the other end of which is fastened to the shell by fusible solder. When heat of a certain temperature comes in contact with said thin outer shell, the fusible solder quickly melts and the flexed spring presses upward on a metallic diaphragm in such a way as to make a circuit connection which brings about the sounding of the alarm.

The thermostat involved is an improvement upon a so-called "Lowe Thermoscope," the latter being so devised that when the air in the shell is heated to a certain temperature (and the parties refer to it as a "rate-of-rise" device) a diaphragm is actuated to perform the same functions as the device here involved. The improvement here rests for the most part in making the device more sensitive and quicker to respond to lower degrees of heat than the "Thermoscope" and is said to work on the "fixed temperature" principle.

The interference is between the application of the senior party, Rider, filed August 27, 1941, and the application of the junior party, Griffith, filed December 12, 1941.

At one time the interference involved three parties, Rider, Griffith, and S. T. Van Houten. The latter filed his application December 20, 1940.

In the Patent Office during the prosecution of the interference the party in interest of the Griffith application, being the assignee of both the Griffith and Van Houten applications, was required to make an election as to which application it would rely upon in the interference. Van Houten's application, filed nearly one year before the Griffith application, clearly discloses and claims the instant invention, as does each of the applications of the other parties hereto. The Griffith application was chosen.

Five of the counts, 1, 2, 3, 5 and 6, originated in the Rider application and count 4 originated in the Van Houten application. All three of the applications, including drawings, descriptions and claims, are almost identical, which fact is regarded by the parties as of importance for reasons which will hereinafter appear.

Count 5 is illustrative and reads (the particular elements here involved being italicized):

5. A thermostat comprising an insulating support having a pair of circuit terminals mounted thereon and a contact member mounted therethrough, a metallic conductor connected to one of the said terminals and to the said contact member, a secondary metallic contact member connected to the other one of the said terminals and spaced apart from the said contact member, a metallic shell positioned on the said support, *a spring metal strip affixed to the said metallic shell by means of fusible solder, the said spring metal strip being retained in strained position and adapted upon the fusing of the solder to forcefully engage the said secondary metallic conductor and move the same into engagement with the said contact member, so as to complete a circuit through the device.*

The contention of Rider is to the effect that he was the first to conceive the invention involved and that he was "in full possession" of the same as early as November 3, 1937, on which date he disclosed the same to one John A. Coakley, who was then vice president and is now president of The Automatic Sprinkler Company, hereinafter referred to as "Automatic," which manufactured devices like that at bar in Youngstown, Ohio, and maintained offices in the city of New York; and that subsequently Griffith derived the invention of his application from Rider.

Rider testified that on November 3, 1937, he showed a drawing of the device (Rider Exhibit 5) to Coakley and explained its operation. It might here be observed that its operation is so simple that it would be difficult to believe that any official of the company to whom it might have been explained would not be thoroughly informed as to the manner of its operation. Coakley's testimony relating to the circumstances of said alleged disclosure to him by Rider, which the Board regarded as of vital importance to Rider's case, was thoroughly considered by the Board and is the subject of spirited controversy here. The Board pointed out that Coakley's testimony wholly failed to meet the requirements of the law relating to corroborative testimony as to conception and disclosure inasmuch as the models relied upon, Rider Exhibits 6 and 23, which are particularly pertinent here, were made by persons who were not called as witnesses for Rider although they had been named in the Notice of Taking Testimony and Coakley's testimony did not identify these models clearly.

Coakley's testimony was not very definite and the Board concluded that it was defective in that it fails to show that he, when first shown the device, understood the nature of the invention that was supposed to be disclosed by the models. He admitted freely that in the early part of 1938 he was not sufficiently versed in the art of fire protection to pay much attention to the operation of the models. He stated, however, that later in the third quarter of 1938 he did completely understand the operation of the Rider device.

[1] From the decision of the Board it is inferred that, as the issues of the case were there presented, it was thought necessary for it to pass only upon the question as to whether or not Rider had satisfactorily proved that he was in possession of the invention as claimed so that Griffith could have derived it from him. In our view of the case, since this issue is confined to originality, it will be sufficient for us to determine whether or not Rider has proved that Griffith derived the invention from him. The interesting analysis of the evidence by the Board in holding that Rider failed to prove that he was in possession of the invention as alleged may properly, we think, be ignored here since it is immaterial whether Rider has met the requirements of the law to prove that he was, as alleged, in possession of the invention if it is held, as we do herein hold, that Rider has not satisfactorily shown that Griffith derived the invention from him.

Rider relies heavily on his Exhibit 5, which is a pencil drawing clearly disclosing the invention involved which has been notarized as having been signed by Rider on October 30, 1937. The importance of this exhibit, which has every appearance of being genuine, is minimized by Griffith with a suggestion that the lower portion of the same, which discloses the spring attachment (which is the gist of the invention in controversy), might have been added subsequent to the notarization. There is no evidence in the record or other circumstance which supports this contention, and if it were important (which it is not, in view of our conclusion) we would be constrained to hold that this exhibit is proper evidence for consideration on the question of conception on the part of Rider. October 30, 1937, is prior to any date to which Griffith is entitled. However, if it were held, contrary to the holding of the Board, that Rider, in 1937, had conceived and made disclosure of the invention to Coakley, it would avail Rider nothing as the issue is here presented unless he also showed that Griffith derived the invention from him.

It is not claimed by Rider that if he has not proved that Griffin derived the invention from him, directly or indirectly, he is entitled to an award of priority in this case. His application was filed months after Griffith's device was in commercial production, of which production Rider was aware at the time he filed his application, and there is no contention on the part of Rider that he is entitled to an award of priority except, as hereinbefore stated, on the theory of originality.

Rider, at the time of testifying and for many years prior thereto, had been employed by Automatic. E. A. Lowe also was for many years in the employ of Automatic and had had wide experience as an inventor of devices similar to that involved here, including his "Thermoscope" which has been hereinbefore described and the patent for which device was assigned by him to Automatic's subsidiary company, the Airelease Corporation. Rider worked under Lowe, and S. T. Van Houten, heretofore referred to, was manager of Automatic's New York office and worked with Lowe.

Lowe worked for Automatic for 23 years, 1916 to 1939. In 1929 Lowe made a ten-year contract with Automatic to serve in the capacity of consulting engineer, certain phases of which contract were terminated in 1936 but it was agreed that Lowe was to continue to perform services in his capacity as consulting engineer until 1939, when his relations with the company were severed and he became otherwise engaged, as will be hereinafter referred to.

The record shows a number of activities on the part of Lowe from 1936 to 1939 relating to improvements made for Automatic devices as consulting engineer. At the time Lowe assigned his "Thermoscope" patent to Airelease it was making a somewhat similar device known as "Automatic Fire Detector."

Van Houten was manager of Automatic's New York office from 1924 to 1939. During 1937 and 1938 Lowe made his headquarters with Van Houten in the New York office of Automatic. In 1940 Lowe, Van Houten, Griffith, and others formed a corporation known as "Lowe Laboratories, Inc." Griffith

was president of Lowe Laboratories, Inc., from 1940 to 1942. They produced a device embodying the present invention called "Spot Fire Detector." Lowe Laboratories, Inc., in 1943, changed its name to Fire Devices, Inc.

When Griffith's testimony was taken he was president of the Star Sprinkler Corporation, a competitor of Automatic, which began operations in 1923 and since 1941 has been manufacturing agent for Lowe and Lowe Laboratories.

Rider claims that on the 5th day of November, 1937, he disclosed to Lowe the involved invention by mailing to him, in New York (Rider being in Youngstown, Ohio), a copy of a sketch made by him (Rider) which completely disclosed the involved invention. Upon the original of this sketch, which is Rider Exhibit 7, is the notation, "Copy of this sketch sent E. A. L. 11/27/37. Please comment on patent possibility. H. N. R. Proposed Thermostat, 11/5/37. H. N. Rider." It is not claimed here that any letter accompanied this copy. The drawing with the said notation is regarded as a mailed communication. Although there was some misunderstanding on this subject during the proceedings it seems to have been cleared up here.

The record shows that on November 12, 1937, Rider wrote a letter to Lowe, the original of which is in the record and is known as Griffith Exhibit B, in which he enclosed a drawing and certain other matter not related to this invention, and called upon Lowe for his comment on patentability and that Lowe by letter, Rider Exhibit 8, answered the same on November 19, 1937. Rider does not claim that it was with this letter that the drawing disclosing the invention at bar was transmitted to Lowe but that this correspondence between himself and Lowe fixes the date at which time he claims to have sent the drawing disclosing the invention.

There is nothing in either of said letters of Rider and Lowe that suggests that he ever mailed a copy of Exhibit 7 to Lowe. Just why this correspondence is relied upon as proof by Rider that he sent Lowe a drawing disclosing the invention on that date is not made clear. It does show to some extent the relationship between Rider and Lowe at the time. Lowe denies having received the drawing. No other witness supports Rider's testimony that he sent the drawing.

Rider contends that not only was his invention disclosed by him to Lowe by the said drawing mailed as aforesaid, but that he also orally disclosed his invention and discussed it in Automatic's New York office with Lowe and Van Houten in 1938, and that Griffith became informed of the invention through Lowe and/or Van Houten. Rider points out that Griffith admitted that the invention was "foreign" to his line and urges that this circumstance is entitled to weight as having bearing on the question of the likelihood of Griffith being the inventor.

Lowe denies Rider's statement that there was any such conversation with Rider about the instant invention and Griffith affirmatively denies that he received the invention from either Lowe or Van Houten. Rider points to the fact that Van Houten was not put on the witness stand by Griffith and this fact is urged as being important since Van Houten not only knew about the activities of Automatic but was sufficiently informed about the invention as to file an application for a patent for the same in his own name. Griffith attempts explanation of this circumstance by stating that since Rider claimed that both Lowe and Van Houten were present when the New York conversation occurred it was thought sufficient to have Lowe only testify on this subject in rebuttal.

No witness corroborated Rider's testimony that in New York or elsewhere did Rider ever disclose the invention at bar to either Griffith, Lowe, or Van Houten.

It must be remembered that there was but one witness, Coakley, who testified in behalf of Rider. We have commented on this testimony, which went only to the question of whether or not Rider ever was in possession of the involved invention so that he could have disclosed it to anyone.

Coakley testified as to the bad relations that existed eventually between Lowe and Automatic, and Lowe's integrity is severely criticised. He is charged by Coakley with having taken an invention from Automatic that belonged to it and later selling the same to it for $10,000.00.

Rider earnestly urges here that the various circumstances to which we have alluded, and a number of others not referred to but which are so relatively unimportant as to require no special consideration, should be accepted as establishing that Griffith derived his invention from Rider and that these circumstances are corroborative of Rider's direct testimony on this question. Rider further urges that these circumstances relied upon here were not satisfactorily explained by Griffith and that they cannot be explained otherwise than against Griffith's interest.

[2] Since it is obvious that the weight of the direct evidence on the question of originality is not with Rider, who bore the burden, Rider urges the application of the principles relating to circumstantial evidence. Since in this kind of case and in instances where fraud is the fact to be established the facts are difficult of direct proof and are usually shown by related circumstances, it is proper to here consider all the related circumstances shown in the record. *Rinehart* v. *Gibson*, 39 App. D. C. 358, 185 O. G. 1383.

Proof of the fact inferred from circumstantial evidence cannot rest upon conjecture and speculation. *Adair* v. *Reorganization Inv. Co.*, 125 F.(2d) 901.

[3] The circumstances relied upon to prove a fact must point to the existence of the fact to be established with reasonable certainty and may not be accepted as being fully probative of the fact to be proved unless they are consistent therewith and inconsistent with any other rational theory. Jones on Evidence, Civil Cases, 4th Ed., vol. 3, sec. 890.

"A theory cannot be said to be established by circumstantial evidence, even in a civil action, unless the facts relied upon are of such nature and so related to each other that it is the only conclusion that can fairly or reasonably be drawn from them. It is not sufficient that they be consistent merely with that theory, for that may be true and yet they may have no tendency to prove the theory. This is the well-settled rule." *Asbach* v. *Chicago, B. & Q. R. Co.*, 74 Iowa 251, 37 N. W. 182.

[4] It must be conceded that there are certain phases of the relations between the parties hereto which under other circumstances might strongly suggest the possibility that Griffith derived his invention from Rider; that is to say, they show a strong motive and an abundance of opportunity for Griffith to have derived his invention from Rider. But proof of motive and opportunity alone is insufficient to bring about the result sought by Rider. We said in *Fersing* v. *Fast*, 28 C. C. P. A. (Patents) 1318, 121 F.(2d) 531, 50 USPQ 112, 532 O. G. 3, "suspicions cannot supply the requirements of the law."

Rider stresses as having an important bearing upon the question of originality the following:

> That he [Lowe] was a purveyor of ideas [is] too obvious for words from the undeniable fact that two substantially duplicate applications for patent stemmed from his admitted association with Griffith and Van Houten after he had broken with "Automatic." This plurality of applications from a common source makes the conclusion inescapable that since Lowe, the "consultant" was directly responsible for these applications he was also responsible for communicating what Rider had disclosed to him.

The fact that two applications "stemmed" from Lowe's knowledge after he had broken with Automatic might have an important bearing if proved and if there was also satisfactory proof that Rider disclosed to Lowe. The latter fact is the important fact in dispute and is the crux of the controversy.

The evidence as a whole, taking into consideration the business relations of the parties and their admitted dealings with each other, as nearly approaches establishing a breach of faith between an employee and employer relative to the duty of an employee to assign to his employer, under certain circumstances, his invention as it does that Griffith obtained the invention from Rider. But we do not mean to say that upon this record either inference could properly be drawn. On this phase of the case the Board very pertinently remarked:

> While at first blush it may seem that Lowe and Van Houten were attempting to capitalize at the expense of their former employer, the Automatic Sprinkler Company, and perhaps escape the effect of Lowe's duty to assign improvements by having Griffith file an application on a competing device to that developed by Lowe for "Automatic," the testimony when closely examined fails to establish that Rider was in possession of the invention so that he could disclose it to either or both Lowe and Van Houten and thus to Griffith. Thus no such inference can be drawn. Furthermore, only priority and not the contractural obligations of the parties can be considered here.

[5] Rider has failed to meet the burden of proof on the question of originality and since a determination of this issue is conclusive of the case it follows that the decision of the Board awarding priority of invention of the counts involved to Griffith must be affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE LOCKE STOVE COMPANY

No. 5,106. Decided March 6, 1946

[154 F.(2d) 200; 69 USPQ 108]

1. TRADE-MARKS—DESCRIPTIVENESS.
   The expression "Warm-Ever" *Held* descriptive of the water heater using solid fuels to which it is applied, and also descriptive of the character or quality of the heater, and therefore not registrable under the Trade-Mark Act of 1905.
2. SAME—PRECEDENTS.
   "We do not deem it essential to discuss the citations in which marks were either registered or denied registration, for the reason that it has been repeatedly held that such cases are of little, if of any, value in deciding trade-mark cases such as this."

APPEAL from the Patent Office. Affirmed.

Messrs. Fishburn & Mullendore (*Mr. Emory L. Groff* and *Mr. Claude A. Fishburn* of counsel) for Locke Stove Company.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Commissioner of Patents, 62 USPQ 318, affirming that of the Examiner of Trade-Marks denying registration under the Trade-Mark Act of 1905 to the expression "Warm-Ever" applied to water heaters using solid fuels, Serial No. 452,451, filed April 20, 1942. Appellant alleged use of the mark in its business from on or about January 1, 1942.

The drawing of the mark accompanying the application shows the words in vertical relation on a background, and the mark is said to be affixed to the heater by decalcomania.

The Examiner held the mark to be descriptive of appellant's goods and therefore not registrable. The Commissioner affirmed the holding for the same reason.

Appellant contends here that the mark is not descriptive, but may be considered as suggestive, citing many cases alleged to sustain that contention. In support of its contention, it is argued in the brief that the mark is not descriptive because no one could consider that the water in the heater would always be warm or hot, based on the fact that it is well known that without a fire in the heater the water would not be heated, and therefore the notation "Warm-Ever" could not be considered descriptive.

We think it clear that the term sought to be registered in relation to its application to the heater can have no other meaning but that one could have warm or hot water whenever one wished, and that it is not necessary to remake the fire as often as the water is needed. This, it seems to us, is the immediate and obvious impression to be derived from appellant's mark as he is using it. It does not require any particular mental effort or reasoned thinking to arrive at such impression.

[1] In our opinion appellant's mark is not only descriptive of the heater with which it is used, but

also of the character or quality of it, and is thus brought squarely within the prohibition of the act.

[2] We do not deem it essential to discuss the citations in which marks were either registered or denied registration, for the reason that it has been repeatedly held that such cases are of little, if of any, value in deciding trade-mark cases such as this. *In re Dutch Maid Ice Cream Company*, 25 C. C. P. A. (Patents) 1009, 95 F.(2d) 262, 37 USPQ 202, 495 O. G. 221.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Disclaimers

2,111,169.—*Thomas B. Clark*, Rockford, Ill. VALVE. Patent dated Mar. 15, 1938. Disclaimer filed June 28, 1946, by the assignee, *The Permutit Company*.

Hereby enters this disclaimer to claims 9 and 10 of said Letters Patent.

2,212,442.—*Victor W. Kliesrath*, South Bend, Ind., and *Roy S. Sanford*, New York, N. Y. HYDRAULIC GEAR SHIFT MECHANISM. Patent dated Aug. 20, 1940. Disclaimer filed July 3, 1946, by the assignee, *Bendix Products Corporation*.

Hereby disclaims claims 1 and 2 of said patent.

2,255,949.—*Edward J. Thompson*, Ludington, Mich. DRAWER CONSTRUCTION. Patent dated Sept. 16, 1941. Disclaimer filed July 3, 1946, by the assignee, *Thompson Cabinet Company*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,333,993.—*Le Roy H. Frailing*, Detroit, Mich. INTERNAL COMBUSTION ENGINE. Patent dated Nov. 9, 1943. Disclaimer filed June 24, 1946, by the assignee, *Packard Motor Car Company*.

Hereby enters this disclaimer to claim 2 of said Letters Patent.

T.-M. 319,793.—*Ruxton Products, Inc.*, New York, N. Y. INKS—NAMELY, WRITING INKS, PRINTING INKS, STAMP PAD INKS, DRAWING INKS, SILK SCREEN PROCESS COLORS, CARBON PAPER AND TYPEWRITER RIBBONS. Registered Dec. 4, 1934. Disclaimer filed June 28, 1946, by the registrant.

Hereby enters this disclaimer to so much of the above entitled trade-mark as relates to "typewriter ribbons."

T.-M. 412,485.—*Cohen-Weisman Sportswear Corp.*, New York, N. Y. LADIES' MISSES' AND GIRLS' SWEATERS; KNITTED HATS, KNITTED SCARFS, JACKETS, SLACKS, OUTER SHIRTS, BLOUSES, OUTER SHORTS, OVERALLS, COVERALLS AND BATHING-SUITS. Registered Mar. 6, 1945. Disclaimer filed June 27, 1946, by the registrant.

Hereby disclaims the use of the above enumerated trade-mark in connection with knitted hats, slacks, outer shorts, overalls, coveralls and bathing suits.

T.-M. 416,061.—*Compania Azucarera Central Toledo, S. A.*, Marianao City, Cuba. SUGAR CANDY, BONBONS, CARAMELS, ALMONDS COATED WITH SUGAR, SUGAR-COATED DRIED FRUIT, MARMALADE OF FRUIT, CANDIED FRUIT AND FRUITS TREATED IN HEAVY SYRUP. Registered Aug. 21, 1945. Disclaimer filed May 1, 1946, by the registrant.

Hereby disclaims the diamond-shaped figure as a part of its registered trade-mark.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 27, 1946.*

Robert Harris, his assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Anna-Jean Yuill, 1 North La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of Robert Harris, No. 358,116, dated June 28, 1938. The assignment records of this Office show a transfer of title to this registration to Alka Bromo Corporation, 6650 Franklin Ave., Los Angeles, Calif., which has been substituted for said Harris to defend the registration concerned. The notice of such proceeding sent by registered mail to Alka Bromo Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Alka Bromo Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., June 28, 1946.*

The Knorr-Schlaudt Notion Co., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Gallenkamp Stores Co., 422 Second St., San Francisco, Calif., to effect the cancellation of trade-mark registration of The Knorr-Schlaudt Notion Co., Hutchinson, Kans., No. 108,649, dated February 22, 1916, renewed by The Knorr-Schlaudt Wholesale Company, Inc. The Office having been unable to obtain service upon the respondent, notice is hereby given that unless The Knorr-Schlaudt Wholesale Company, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 8, 1946.*

The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Reid, Murdoch & Co., 325 N. La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of The Mon-Ark Medicine Corporation, Inc., 421 Elberon Ave., Cincinnati, Ohio, No. 273,229, dated July 22, 1930, and the notice of such proceeding sent by registered mail to the said The Mon-Ark Medicine Corporation, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,390,399. PAPER DISPENSER. Patented Dec. 4, 1945. For dispensing tissue, paper towels, or similar sheet material in roll form. Comprises a casing with a hinged closure member. Roll rests freely on bottom of casing with free end of paper extending vertically through a passageway between the top edge of the casing and closure member. Passageway is of angular or curved formation to exert braking action on the paper to prevent it from falling back into casing. Finger notch makes it possible to reach end of paper even though it may tear off below edge of casing. May be made of plastic or other material and mounted on or in a wall. (Co-owner) Gustave Holmgren, 126 Water St., Sheboygan Falls, Wis. Groups 33—73; 39—81; 40. Reg. No. 3,244.

Des. 137,608. DESIGN FOR A POKER CHIP OR SIMILAR ARTICLE. Patented Apr. 4, 1944. Chip is formed with ornamentation on its face with the exception of a circular portion in the center. (Co-owner) Gustave Holmgren, 126 Water St., Sheboygan Falls, Wis. Group 39—41. Reg. No. 3,245.

Pat. 2,381,636. ADJUSTABLE HEAD GOLF CLUB. Patented Aug. 7, 1945. Angle of the head may be varied between predetermined limits to correspond to the striking face of various clubs. Stem (integral with shaft) and head have mating helical splines and grooves. Head also has a gear for engaging cross teeth on stem. Edge of coin may be inserted into a slot for rotating gear to adjust head. Coin slot also serves as an indicator when adjusted relative to a scale on head. Head is normal in appearance and is capable of withstanding continued use. Club provided with this type of head eliminates necessity of carrying several different clubs. (Owners) Thomas Bancroft and Norman Blackburn. Address correspondence to Otto Munk, 41 Park Row, New York 7, N. Y. Group 39—49. Reg. No. 3,246.

Pat. 2,398,188. ANIMAL TRAP. Patented Apr. 9, 1946. Box-like enclosure into which animals are enticed and electrocuted, their bodies falling into a drawer in back of trap. Animal travels up a ramp and when attempting to descend a chute, his body bridges contacts and completes circuit. Danger of shock to person handling trap is eliminated by provision of two circuit breakers in the form of spring-pressed slides which are automatically released, one by withdrawing drawer, the other by lifting trap. Bulb lights when energized if trap is in working order. May be plugged into suitable source of power. (Owner) Paul Meehan, 4632 Shenandoah St., St. Louis 10, Mo. Groups 33—49; 36—21. Reg. No. 3,247.

Pat. 2,201,789. MEMORANDUM PAD HOLDER. Patented May 21, 1940. May be detachably clamped to steering post or screwed to dash of automobile. Holder comprises a flat plate with three of its edges bent to form flanges so that face of pad is always exposed. Pad is slid into holder beneath the flanges and held in place by a spring clip. An extension at one side edge holds pencil and has a spring clip for holding maps, loose leaves, or detached sheets from pad. Without removing pad from holder and without leaving driver's seat, operator may conveniently write on pad or glance at memoranda or other penciling thereon. (Owner) John D. Robilotto, % J. D. Robilotto Co. Inc., 194 West Fourth St., Sheridan Square, New York 14, N. Y. Groups 39—99; 40. Reg. No. 3,248.

Pat. 2,344,017. DEVICE FOR CLEANING AND DRYING ROLLER STIPPLERS. Patented Mar. 14, 1944. Cleaning and drying is achieved by rotating roller stipplers at high speed. A spindle, which may be attached to an electric drill or other small motor, will accommodate roller stipplers of various lengths. The roller is placed on the spindle between a fixed, pronged plate at one end and a slidable compression spring on the other end. The spring may be placed at various points on the spindle, depending upon the length of the roller, and held at such points by passing a pin through one of a series of holes in the spindle. (Owner) Max Ashpes, 1426 East Third St., Brooklyn, N. Y. Groups 33—73; 35—69. Reg. No. 3,249.

Pat. 2,382,529. PREPARATION OF CHLORINATED RUBBER COMPOSITIONS. Patented Aug. 14, 1945. The process relates to the treatment of low cost fatty oils (corn, castor, cottonseed) which are not usually employed in the compounding of chlorinated rubber compositions. The oil is first treated with a salt capable of promoting heat-bodying and heated at temperatures ranging between 100° C. and 300° C. While at a high temperature, a dissolution promoting agent is sometimes added to render certain oils soluble in the solvent with which the chlorinated rubber is later blended. The addition of the oils provides protective or decorative coatings of easy brushing or spraying consistency. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J. Groups 28—11—34; 30—41. Reg. No. 3,250.

Pat. 2,382,530. MANUFACTURE OF SOAPS. Patented Aug. 14, 1945. Group 28—41. Reg. No. 3,251.

Pat. 2,382,531. SOAP MANUFACTURE. Patented Aug. 14, 1945. Group 28—41. Reg. No. 3,252.

The two patents listed above relate to an anhydrous method of making soap from fatty oils, waste fatty materials, and the like. The method uses a closed vessel in which an alkali agent, rosin and the oil are heated for half an hour to relatively high temperatures of 150° C. to 350° C. The rosin functions to lighten the color and diminish the odor of soaps evolved from fish oils. Hydrogen peroxide is also added as a bleaching agent. The hardness of the product is controlled by amount of water added to the cooled mixture. The batch is then kneaded to guarantee uniformity. The method has several advantages, one of which is that it eliminates the drying step and its usual accompanying equipment. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J.

Pat. 2,382,532. VULCANIZED FATTY OIL EMULSIONS. Patented Aug. 14, 1945. Groups 28—11—34; 30—41. Reg. No. 3,253.

Pat. 2,382,533. OIL IN WATER DISPERSIONS. Patented Aug. 14, 1945. Groups 28—11—34; 30—41. Reg. No. 3,254.

The two patents listed above relate to the treatment of oil-in-water dispersions of vulcanized fatty oils (tung, olive, linseed, etc.) with one to two percent of methyl cellulose (by weight) in combination with a wetting agent (soap, etc.) known to reduce the surface tension at the oil and water interface. The emulsions produced in the process show good stability and are easily dilutable with water and may be used as rubber extenders or to render waterproof the surfaces of paper, stucco, wood, plaster, and cement. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J.

Pat. 2,384,061. MODIFICATION OF ROSIN. Patented Sept. 4, 1945. Group 28—11—81. Reg. No. 3,255.

Pat. 2,384,062. PROCESS FOR MODIFYING ROSIN. Patented Sept. 4, 1945. Group 28—11—81. Reg. No. 3,256.

Pat. 2,384,063. AMINE TREATMENT OF ROSIN. Patented Sept. 4, 1945. Group 28—11—81. Reg. No. 3,257.

Pat. 2,384,064. TREATMENT OF ROSIN WITH AMINES. Patented Sept. 4, 1945. Group 28—11—81. Reg. No. 3,258.

Pat. 2,396,671. ROSIN TREATMENT. Patented Mar. 19, 1946. Group 28—11—81. Reg. No. 3,259.

The five patents listed above pertain to the treatment of gum or wood rosin so that various inherent properties such as brittleness, low melting point, or the like are modified and the rosin rendered soft or liquid, etc., better adapting it to industrial uses such as paper sizing, soap manufacture, the making of plastics, varnishes, etc. The process involves the heating of the rosin in the presence of a modifying agent, such as a metal soap or an aromatic amino compound at temperatures ranging from 100° C. to 350° C., the temperatures being kept below boiling point to avoid distillation. Examples are given wherein varying percentages of the modifying agent are used and in which the reactions are carried out under vacuum, atmospheric pressure, using carbon dioxide, etc. The inventor claims the process imparts improved aging characteristics, water and alkali resistance, and other qualities to the final product. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J.

Pat. 2,396,669. TREATMENT OF BITUMINOUS MATERIAL. Patented Mar. 19, 1946. Benzidine, diphenyl-amine and like organic compounds, at percentages varying from 1% to 10%, are incorporated in bituminous materials such as asphalt, peat, lignite, shale, tar, and like materials and heated for half an hour at a temperature of 250° C. The process, when employed in the making of such articles as battery boxes, molded plastics, road making materials, paints and varnishes, imparts improved characteristics such as increased fusion point and toughness. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J. Group 28—11—34—83. Reg. No. 3,260.

Pat. 2,396,670. PROCESS FOR MODIFYING FATTY OILS. Patented Mar. 19, 1946. Such oils as olive, soya bean, linseed, and other fatty oils are modified by the addition of fluorescein and heated at temperatures which avoid cracking or distillation. When used as an ingredient of plastics and varnishes the treated oil accelerates the rate of bodying, improves the drying characteristics and renders the varnish, etc., water and alkali resistant. (Owner) Laszlo Auer, P. O. Box 184, 88 Harding Drive, South Orange, N. J. Group 28—11—34—83. Reg. No. 3,261.

Pat. 2,397,063. DETERMINING GREAT CIRCLE ROUTES. Patented Mar. 19, 1946. A device for indicating great circle courses between geographical locations for aviation, educational, or other purposes. Consists of a transparent sheet marked with arcs of different curvatures scaled to correspond to the great circle routes represented on the azimuthal map in combination with which it is used. The diagram sheet overlies the map and is movable so that it may be brought into register with any portion of the map. The sheet has a number of perforations through which a pencil may be inserted to dot the course, the dots being later connected on the map after the sheet has been removed. (Owner) J. Parker Van Zandt, % Brookings Institution, 722 Jackson Place, N. W., Washington 6, D. C. Group 39—11. Reg. No. 3,262.

Pat. 2,381,842. AIRCRAFT WHEEL CONTROL DEVICE. Patented Aug. 7, 1945. Hydraulic control device moves wheels of airplane from retracted to extended position, the device being selectively operable as a motor or brake; the motor being used to rotate the wheels prior to landing, commensurate with the speed of the engine to prevent skidding. Upon landing, telescoping pistons of the device act as shock absorbers, also breaking the motor circuit. The heat generated by the usual friction brakes is dissipated by circulation of the hydraulic fluid through various lines and through a cooler. (Owner) Fred N. Schwend, 4331 Kenwood Ave., Los Angeles 37, Calif. Group 37—22. Reg. No. 3,263.

Patent Dedicated to the Public

The United States Steel Corporation of Delaware and the Carnegie-Illinois Steel Corporation do * * * forever abandon and dedicate the invention described and claimed by said Letters Patent * * *

Pat. 2,389,043. STEEL IN ELEVATED TEMPERATURE SERVICE UNDER STRESS. Patented Nov. 13, 1945. To maintain stress and prevent graphitizing of ordinary carbon-molybdenum steel, subjected to temperature ranges of 850° F. to 1100° F., .15 to less than 1% chromium is added. Substantially all of the carbon in the steel is fixed in the form of a carbide enabling it to withstand high temperatures for prolonged periods.

All correspondence relating to the above dedicated patent should be directed to H. S. Shepard, 1317 F St., N. W., Washington 4, D. C.

Correction

Pat. 1,837,674. HATCH FOR SHIPS AND BOATS. Patented Dec. 22, 1931. Hatchway has no projections on its inside so that cargo may be loaded or unloaded without damage. Ends of webs or bridles, usually secured inside the hatch coamings, are longer than the width of a hatchway and are completely housed in channels, being supported outside the side plates which allows the webs or bridles to be lifted vertically. Several modifications shown. (Owner) Robert Buchanan Reith. Address correspondence to Williams, Bradbury & Hinkle, 2300 Board of Trade Building, Chicago, Ill. Group 37—31. Reg. No. 2,530.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING JUNE, 1946

THE CROWN OVERALL MFG. CO *v.* BOWMAN HAT COMPANY, Opposition No. 24,246.

In a decision rendered June 4, 1946 (169 Ms. Dec. 53, 69 USPQ 467), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences denying the motion of the applicant, Bowman Hat Company, of Knoxville, Tenn., to dismiss an opposition instigated by The Crown Overall Mfg. Co., of Cincinnati, Ohio, where applicant had filed a paper whereby it formally abandons said application, but without abandoning the trade-mark set forth therein, and abandons the contest of the opposition, but reversed the action of the Examiner refusing to enter the abandonment of the application in the absence of opposer's consent.

It was held that an application to register may be abandoned by the application at any time as a matter of right, but that unless the trade-mark involved is likewise abandoned, one who has previously filed a notice of opposition to the application is nevertheless entitled to have the case proceed to judgment.

EX PARTE CARTER PRODUCTS, INC., Serial No. 477,322.

In a decision rendered June 6, 1946 (169 Ms. Dec. 55, 69 USPQ 468), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Carter Products, Inc., of New York, N. Y., under the provisions of the act of February 20, 1905, a mark comprising the representation of a lady's hand with the fingers extended into an open jar of the deodorant as a trade-mark for a cream deodorant, on the ground that it is descriptive of the manner of using the goods.

It was held that the Examiner rightly refused registration, since the picture of a hand, with the fingers poised over an open jar, clearly informs the user of the method by which the cream should be applied, and in connection with these particular goods the mark could have no other possible significance.

SILENT HOIST WINCH & CRANE CO. *v.* WILLAMETTE HYSTER COMPANY, Cancellation No. 4317.

In a decision rendered June 6, 1946 (169 Ms. Dec. 56, 69 USPQ 469), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the petition of Silent Hoist Winch & Crane Co., of Brooklyn, N. Y., to cancel registration No. 399,641, issued January 19, 1943, under the provisions of the act of March 19, 1920, to Willamette Hyster Company, of Portland, Oreg., the mark of the registration sought to be canceled being the notation "Karry Krane," in which the upper arm of each initial letter is extended horizontally in simulation of a crane boom, appropriated to a self-propelling vehicle having crane mounted thereon. The mark relied upon by petitioner, which is likewise registered under the act of 1920, is the notation "Krane Kar" for portable hoists or cranes. Respondent conceded priority of use in petitioner, and that the goods of the parties have the same descriptive properties.

In response to petitioner's contention that the appeal should be dismissed because respondent has applied for registration, under the act of 1905, of a composite mark for similar merchandise, which includes the words "Karry Krane," and has disclaimed these words in the application, it was held that that proceeding is not of record in the instant case, and may not be considered for the purpose indicated, but that it seems proper to say that a disclaimer filed in an application under the 1905 act does not preclude registration under the 1920 act of the matter disclaimed.

It was held that in the marks of both parties the word "Krane" is phonetically the same as "crane," so that it is thus merely the name of the goods, and incapable of trade-mark significance.

It was held that "Kar" and "Karry" are likewise the same as "car" and "carry," respectively, and that while these two words are partially similar in appearance, they do not sound alike nor have the same meaning; moreover, they are so commonly used and so universally understood that confusion between them would seem well-nigh impossible; nor do the marks as a whole have any other feature of resemblance save the substitution of the letter "K" for the letter "C"; and petitioner cannot successfully claim a monopoly of this rather common expedient in the forming of trade-marks.

After noting that in an effort to prove the existence of actual confusion, petitioner introduced as exhibits a number of letters which it had received making reference to "Karry Krane" equipment, which exhibits respondent moved to strike, and assigned as error the Examiner's denial of its motion, it was held that it was unnecessary to rule upon this assignment, because, even assuming its competency, the evidence does not establish trade-mark confusion.

It was held that finally, it must be remembered that petitioner's mark is purely descriptive, and having selected a descriptive expression, petitioner is not entitled to the high degree of protection that might attach to an arbitrary trade-mark.

EX PARTE CLAY-ADAMS COMPANY, INC., Serial No. 478,030.

In a decision rendered June 7, 1946 (169 Ms. Dec. 58, 69 USPQ 548), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks who had refused to register on the application of Clay-Adams Company, Inc., of New York, N. Y., the word "Sealskin" as a trade-mark for liquid coating material used as a substitute for surgical adhesive plaster for use in forming a film over wounds, because it was the Examiner's opinion that the mark describes the goods in that the goods seal the skin.

It was held that applicant's product may not properly be said to heal the skin, so that the mark is no more than suggestive of the intended function of the goods, and in the absence of opposition is registrable.

THE BORDEN COMPANY *v.* BLUE MOON FOODS, INC., Opposition No. 22,918.

In a decision rendered June 7, 1946 (169 Ms. Dec. 58, 69 USPQ 547), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences who had sustained the opposition of The Borden Company, of New York, N. Y., to the application of Blue Moon Foods, Inc., of Thorp, Wis., for registration of the notation "Old Smokey" as a trade-mark for cheese spread, on the ground that the mark is merely descriptive of the goods.

It was held that if the mark is descriptive of the goods, opposer, being a manufacturer of cheese products, would be damaged by the proposed registration.

It was held that the fact that the mark is descriptive is amply established by applicant's own evidence; that such descriptive terms are expressly forbidden registration by the statute, and that the fact that applicant has used its mark extensively and over a considerable period of time does not alter the situation.

MCKESSON & ROBBINS, INCORPORATED, *v.* GUM INCORPORATED (BY CHANGE OF NAME, BOWMAN GUM, INC.), Opposition No. 23,518.

In a decision rendered June 11, 1946 (169 Ms. Dec. 59, 69 USPQ 549), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of McKesson & Robbins, Incorporated, of New York, N. Y., to the application of Gum Incorporated (by change of name Bowman Gum, Inc.), of Philadelphia, Pa., for registration of the notation "Cin-A-Mint" as a trade-mark for chewing gum. Opposer relied upon its ownership of two registrations of the trade-mark "Cytamin," both effected under the act of February 20, 1905, one being for medicinal preparations for internal use, said preparations consisting of a metabolic stimulant and cell activating agent particularly useful in the treatment of diseases due to deficiency in diet, while the other is for a vitamin preparation.

It was held that the second registration is without probative effect in the instant proceeding however, because it issued upon an application filed more than a year later than the application here opposed.

It was therefore held that the determinative question to be decided is whether the medicinal preparations set forth in opposer's earlier registration have the same descriptive properties as applicant's chewing gum, for if they do, the trade-marks of the parties are so nearly similar as to be likely to cause confusion.

In response to counsel's request to take judicial notice that chewing gum has been sold for many years with the claim that it is useful and valuable for digestive purposes, also that the public has bought it in that belief, as well as for its agreeable flavor, it was held that even if that be assumed, it does not necessarily follow that the claim is well founded; and certainly this masticatory product has never been regarded as a medicine even by its most enthusiastic advocates so that upon the record presented, the Examiner of Interferences rightly ruled that the goods of the parties are so clearly distinct as to be of different descriptive properties.

WHITE LABORATORIES, INC., AND PHARMACO, INC. *v.* GUM INCORPORATED (BY CHANGE OF NAME BOWMAN GUM, INC.), Opposition No. 23,523.

In a decision rendered June 11, 1946 (169 Ms. Dec. 60, 69 USPQ 550), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of White Laboratories, Inc., and Pharmaco, Inc., of Newark, N. J., to the application of Gum Incorporated (by change of name Bowman Gum, Inc.), of Philadelphia, Pa., for registration of the notation "Cin-A-Mint" as a trade-mark for chewing gum, the word "Mint" being disclaimed and the mark having been in use since December 11, 1942. The opposition was predicated upon the trade-mark "Feen-a-mint", registered July 17, 1923, and renewed for a laxative chewing gum, the registration being owned by White Laboratories, Inc., of which Pharmaco, Inc., is the wholly owned subsidiary and exclusive licensee.

After noting that joinder of the two opposers was permitted by the Examiner of Interferences with the approval of applicant, it was held that its propriety, though somewhat doubtful, need not be discussed here.

After noting that the chewing gums of the parties differ in that one is medicated while the other is not, in other words, "Cin-A-Mint" is a confection and "Feen-a-mint" is essentially a laxative, it was held that both are consumed in the same fashion; and purchasers of "Feen-a-mint" are advised that three minutes of mastication will serve to extract its medicinal content, after which "chew it, if you like, as you would your favorite gum"; and applicant concedes that both products are sold in the same stores, over the same counters, to the general public and that both products are sometimes to be found in the same display racks in such stores, so

that the Examiner of Interferences rightly ruled that the goods of the parties are of the same descriptive properties and the opposition was properly sustained.

AMERICAN HOME PRODUCTS CORPORATION *v.* VITAMIN CORPORATION OF AMERICA, Opposition No. 22,603.

In a decision rendered June 11, 1946 (169 Ms. Dec. 62, 69 USPQ 548), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of American Home Products Corporation, of Jersey City, N. J., to the application of Vitamin Corporation of America, of Newark, N. J., for registration of a trade-mark including the letters VCA extending over an outline of a map of the United States which is held in the spread out arms of the figure of a giant, the naked torso of the giant appearing above the map while his legs are visible underneath the map along with some shading indicating the ground upon which the giant stands, the picture being enclosed in a circular frame. Opposer relied upon its ownership of a registered trade-mark which comprises the notation "I. V. C." displayed against a circular background. Both marks are appropriated to vitamin preparations.

After noting that opposer's priority of use is conceded, it was held that the only question to be determined is whether the marks are confusingly similar.

After noting that applicant points to obvious differences, it was held that the Examiner of Interferences rightly ruled that when considered as a whole their similarities predominate over the dissimilarities to such an extent that confusion in trade is reasonably likely, since it seems clear that the portions of the marks purchasers would be most likely to remember as indicating origin of the goods are "VCA" and "I. V. C." and that the marks are therefore respectively dominated thereby.

THE GREYHOUND CORPORATION *v.* OHLEN-BISHOP MANUFACTURING COMPANY, Opposition No. 22,726.

In a decision rendered June 12, 1946 (169 Ms. Dec. 63, 69 USPQ 551), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of The Greyhound Corporation, of Chicago, Ill., to the application of Ohlen-Bishop Manufacturing Company, of Columbus, Ohio, for registration of a trade-mark for saws, the mark being the word "Greyhound" in association with the pictorial representation of a greyhound dog, on the ground that the mark constitutes a complete appropriation of the opposer's corporate name.

In response to applicant's argument that since it has used its mark continuously since January 1, 1894, and opposer did not adopt its present corporate name until February 1930, opposer therefore cannot be given the benefit of the corporate name provision of the Trade-Mark Act of 1905 because the name "Greyhound" was already the property of the applicant, it was held that the application to register was filed May 3, 1943, at which time opposer's name had been The Greyhound Corporation for more than thirteen years and the statute precludes registration to another of the mere name of a corporation in existence when the application to register is filed.

It was held that "Greyhound" is opposer's entire corporate name and the fact that the parties are engaged in unrelated activities is therefore immaterial; nor is it material that applicant's mark includes the picture of a dog for clearly the mark is dominated by the name.

In response to applicant's argument that because the word "Greyhound" alone was registered to one of applicant's predecessors in interest on March 8, 1910, for saws and various other hand tools, which registration was permitted to expire, as registered owner of the trade-mark "Greyhound" prior to and subsequent to the adoption of the word "Greyhound" by opposer in its corporate name, applicant had the right to renew or, as in this case, not having abandoned its trade-mark rights to the word "Greyhound" acquired prior to opposer's adoption of the word, it has the legal right to re-register the mark in accordance with well established trade-mark law, it was held that it may be conceded that applicant had the right to renew but it failed to exercise that right; and the cases cited in support of its asserted right to re-register go no further than to hold that the transferee of a subsisting registration may re-register in his own name.

In response to applicant's contention that it is entitled to the proposed registration under the so-called ten-year proviso of section 5 of the act of 1905, it was held that to be so entitled, however, it must appear that the mark was in actual and exclusive use as a trade-mark of the applicant or his predecessors from whom he derived title for ten years next preceding February 20, 1905, and neither the expired registration nor the instant application sets forth any claim of exclusive use during the critical period, nor is there any evidence of such exclusive use.

MORTON MANUFACTURING CORPORATION *v.* THE DELLAND CORPORATION, Opposition No. 23,183.

In a decision rendered June 14, 1946 (169 Ms. Dec. 65, 69 USPQ 616), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Morton Manufacturing Corporation, of Lynchburg, Va., to the application of The Delland Corporation, of New York, N. Y., for registration of the notation "Slick Stick," claimed to have been used since June 8, 1942, as a trade-mark for a shaving stick, the word "Stick" being disclaimed apart from the mark shown in the drawing and the product being essentially a combination of earth minerals which is applied to the skin preparatory to shaving. Opposer relied upon its ownership of the trade-mark "Chap Stick," registered under the ten-year proviso of the act of February 20, 1905, for a medicinal preparation for chapped skin, sunburn, and hang-nails.

After noting that opposer's product is packaged in stick form and also in jars, it has been widely advertised and extensively sold and that according to the testimony it is also useful as an after shaving emollient, it was held that broadly speaking the goods of the parties were properly held to have the same descriptive properties.

After agreeing with the opposer that by virtue of its registration under the ten-year proviso, its trade-mark is entitled to exactly the same treatment and protection as any mark registered under the main provisions of the act of 1905, it was held that it is entitled to no greater protection and descriptive portions of many composite marks registered under the act have been disregarded in resolving the question of their similarity to other marks. It was held that the registration thus affords prima facie evidence of opposer's ownership of the mark as registered but that mark is "Chap Stick," and opposer owns neither word standing alone.

It was further held that "Chap Stick and "Slick Stick" bear no resemblance save in the word "Stick" which is descriptive of the goods of both parties; "Chap" and "Slick" are different in sound, appearance, and meaning; moreover, being ordinary words used in everyday conversation, they are less likely to be confused than would be words that were not so generally understood so that in view of the differences between the goods to which they are applied, the marks as a whole differ sufficiently to be used in trade without likelihood of confusion.

THE RICH LADDER & MANUFACTURING CO. *v.* THE J. R. CLARK COMPANY, Opposition No. 23,508, Cancellation No. 4453, and Cancellation No. 4516.

In a decision rendered June 20, 1946 (169 Ms. Dec. 67, 70 USPQ 1), *First Assistant Commissioner Frazer* affirmed in each of the three proceedings that were submitted upon the same record, were briefed and argued together, and involve substantially the same issues, the decision of the Examiner of Interferences sustaining the opposition of The Rich Ladder & Manufacturing Co., of Cincinnati, Ohio, to the application of The J. R. Clark Company, of Minneapolis, Minn., to register the notation "Rid-Jid" as a trade-mark for ironing tables, sustaining the petition of The Rich Ladder & Manufacturing Company to cancel a registration of the same marks for the same goods, issued to Rid-Jid Products Corporation, and renewed to The J. R. Clark Company, and sustaining the petition of The Rich Ladder & Manufacturing Co. to cancel a second registration of the same mark, issued to The J. R. Clark Company for step ladders and step ladder stools, on the ground that Clark's trade-mark is merely descriptive of the merchandise to which it is applied.

After noting that it need hardly be added that the Examiner's finding of descriptiveness was based on the obvious fact that "Rid-Jid" is the phonetic equivalent of the word "rigid," it was held that since the trade-mark in question is descriptive of the character and quality of the goods with which it is used, its registration for such goods is expressly prohibited by statute so that the decision of the Examiner of Interferences in each case was correct.

GRATON & KNIGHT COMPANY *v.* KNIGHT LEATHER PRODUCTS CO., INC., Opposition No. 23,461 and Opposition No. 23, 471.

In a decision rendered June 25, 1946 (169 Ms. Dec. 70, 70 USPQ 3), *First Assistant Commissioner Frazer* affirmed, in each of two cases submitted on the same record and briefed together on appeal, the action of the Examiner of Interferences dismissing the opposition of Graton & Knight Company, of Worcester, Mass., to the applications for registration filed by Knight Leather Products Co., Inc., of Boston, Mass. Both of applicant's marks are dominated by the word "Knight" and include the representation of a knight in armor. One is appropriated to billfolds, fitted and unfitted toilet cases, and pocketbooks made of fabric and leather, while the other is appropriated to wallets.

After noting that opposer owns a number of registrations on which it relies, chiefly for various types of mechanical belts and belting, it was held that aside from the fact that these articles are made of leather they have nothing in common with applicant's goods and clearly are of different descriptive properties.

After further noting that one of opposer's registrations is for leather for boots and shoes, it was held that there is nothing to indicate that such leather is suitable for making any of the items in which applicant deals, nor that opposer sells leather that would be suitable for that purpose.

In response to opposer's assertion in its brief that it manufactures various leathers in the piece, it was held that there is no evidence that it deals in piece leather at all other than that set forth in the registration just mentioned, nor is there any evidence that it makes leather articles other than those listed in its additional registrations of record and that statements in the brief and references to registrations that are not in evidence cannot be accepted as proof.

In response to opposer's argument that the Examiner of Interferences erred in ruling that the goods covered by applicant's mark could not be considered as being within the logical expansion of opposer's business, it was held that there is nothing in the record however upon which a contrary ruling could have been based.

It was held that the conclusion of the Examiner of Interferences that it was unnecessary to consider the question of similarities of the marks, since he held the goods of the party to be of different descriptive properties was warranted, but it seems proper to add that all of opposer's marks differ sufficiently from each of applicant's marks that confusion would be unlikely unless the goods were very closely related; true, the word "Knight" appears in some of them, as does also the picture of a knight; but both word and picture are parts of composites that do not resemble either of applicant's marks when viewed as a whole.

B. T. FOOKS MANUFACTURING COMPANY *v.* MONROE HARRISON, Cancellation No. 4306.

In a decision rendered June 25, 1946 (169 Ms. Dec. 69, 70 USPQ 2), *First Assistant Commissioner Frazer reversed the Examiner of Interferences* who had upon a petition of B. T. Fooks Manufacturing Company of Camden, Ark., recommended cancellation of a trade-mark registration issued to Monroe Harrison, of Chicago, Ill., and dismissed the petition.

After noting that in the petition Harrison's registration is identified as "451,382, registered May 18, 1843," but that the proceeding has been treated by all concerned, since the Examiner of Interferences noted the impossibility of that number, as a petition to cancel registration No. 402,679, it was held that since the petition has never been amended and since there is no reference therein to registration No. 402,679, the pleading is manifestly insufficient to support the judgment.

THE SEVEN UP COMPANY *v.* WILTZ W. WAGNER, Opposition No. 23,336.

In a decision rendered June 25, 1946 (169 Ms. Dec. 72, 70 USPQ 3), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of The Seven Up Company, of St. Louis, Mo., to the application of Wiltz W. Wagner, of New Orleans, La., for registration of the notation "Thumbs-Up" as a trade-mark for a fruit preparation for flavoring ice cream, said preparation including melons and fruit, other than citrus fruits, cut into small pieces and mixed with their juices and with nuts and syrup. The opposer owns the trade-marks "Seven Up" and "7up," both registered for a soft drink of that name and for syrups, extracts, and flavors used in making the same. The earliest of its registrations was issued in 1929.

After noting that Wagner's application was filed on December 18, 1941, that he then claimed to have used his mark only since December 9, 1941, and that he has attempted to prove a much earlier use, it was held that upon the record presented the Examiner was clearly right in finding opposer is the prior user as between the parties.

Nevertheless it was held that the opposition should be dismissed because although it may be that the goods of the parties have the same descriptive properties in a broad sense of the term, obviously they differ widely in all respects save that both are likely to be consumed at soda fountains; the marks are equally dissimilar, their only resemblance being in the word "up"; both are to be found in the dictionaries, and both are commonly used expressions of well understood meaning.

HOWARD PRESERVING COMPANY, INC. (HOWARD PRESERVING COMPANY, ASSIGNEE, SUBSTITUTED) *v.* THE GRIFFITH LABORATORIES, INC., Opposition No. 22,920.

In a decision rendered June 26, 1946 (169 Ms. Dec. 73, 70 USPQ 4), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Howard Preserving Company, Inc. (Howard Preserving Company, Assignee, Substituted), of Miami, Fla., to the application of The Griffith Laboratories, Inc., of Chicago, Ill., for registration of the word "Kokolette," which has been used since March 1943 as a trade-mark for cocoa shells and refusing the proposed registration ex parte. The opposition was predicated upon opposer's ownership of the trade-mark "Koko Whip" registered June 9, 1942, under the act of February 20, 1905, for canned, bottled and packaged preparations of which coconut is the principal ingredient, the descriptive word "Whip" being disclaimed apart from the mark shown.

After noting that opposer's mark is dominated by the word "Koko," in response to applicant's argument that this word is likewise descriptive of opposer's goods, it was held that it is well settled that the validity of an opposer's registered trade-mark may not be questioned unless directly challenged in accordance with section 13 of the act.

After noting that the preparation to which opposer currently applies its mark, according to opposer's witness, is sold to manufacturers, wholesalers, and retailers, including bakeries, candy manufacturers, and manufacturers of beverages, and is used for mixing with drinks, for cakes, pies, cookies, milk shakes, etc., it was held that it would thus appear to be directly competitive with applicant's product and clearly is of the same descriptive properties.

In response to applicant's contention that its own mark is dominated by the syllable "lette," it was held that be that as it may, "Koko" is a prominent part thereof and constitutes the entire undisclaimed portion of opposer's mark; moreover, the complete marks when written do not differ greatly in appearance, and when spoken are quite similar in sound so that in view of the close relationship of the goods involved, these marks are so nearly similar when considered in their entireties as to be likely to lead to confusion in trade.

After noting that applicant introduced a number of registrations to third parties of marks in an effort to prove that "Koko" is a descriptive word meaning "Cocoa" which has been adopted by many firms either alone or in combination with other words; and that one such registration, issued January 6, 1931, of the word "Koko" alone, for chocolate was held by the Examiner of Interferences to be an additional bar to the registration of applicant's mark, it was held that the action of the Examiner of Interferences was right since applicant does not question the Examiner's ruling that chocolate and its own goods are of the same de-

scriptive properties; here again, validity of the cited registration must be presumed; and the confusing similarity of the marks is apparent.

WILLIAM R. WARNER & CO., INC., *v.* EFFERVESCENT PRODUCTS, INC. (BY CHANGE OF NAME, AMES COMPANY, INC.), Opposition No. 23,614.

In a decision rendered June 28, 1946 (169 Ms. Dec. 77, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of William R. Warner & Co., Inc., of New York, N. Y., to the application of Effervescent Products, Inc. (by change of name, Ames Company, Inc.), of Elkhart, Ind., for registration of the notation "Sulfathia-Vess," claimed to have been used since April 11, 1944, as a trade-mark for effervescent tablets containing sulfathiazole for medicinal use in the treatment of upper respiratory infections including laryngitis, pharyngitis and pneumonia; scarlet fever; bacterial forms of intestinal and genito-urinary conditions associated with streptococcus and staphylococcus infections and further adjudged ex parte that applicant is not entitled to the proposed registration. Opposer relied upon its ownership of the trade-mark "Sulfathiadox" registered December 22, 1942, under the act of February 20, 1905, for an ointment containing a modified form of sulfathiazole to be used in the treatment of burns and other superficial injuries.

In response to applicant's assertion that the goods have nothing in common except that both contain sulfathiazole as their essential ingredient, it was held that two medicinal preparations having the same "essential ingredient" are necessarily of the same descriptive properties, if for no other reason that they would doubtless be assumed to emanate from the same source; moreover, this information is readily available to purchasers for the sulfathiazole content of each product is plainly indicated on the label.

After agreeing with applicant that the word "Sulfathia" standing alone is descriptive, it was held that the mark as a whole must be looked to regardless of descriptive portions and it must be determined whether or not the use of the whole mark in the same field in which the mark of another is used would be likely to cause confusion and applying that rule here, it becomes apparent that applicant's mark and opposer's are very nearly alike; it is true that they differ in the terminal syllable, but in the first four they are identical; and while experts such as applicant's witness probably would have no difficulty in distinguishing between them, it seems that the general public might well be confused so that the opposition was properly sustained.

It was further held that applicant's mark is not registrable under the act of 1905 regardless of opposer's rights since "Sulfathia" is admittedly descriptive and "Vess" is merely the name of an individual so that the mark thus consists in two words, neither of which is separately registrable and their combination does not result in registrability.

WEIL & DURRSE *v.* THE UNITED PIECE DYE WORKS, Opposition No. 23, 533.

In a decision rendered June 28, 1946 (169 Ms. Dec. 75, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of Weil & Durrse, of New York, N. Y., to the application of The United Piece Dye Works, of Lodi, N. J., for registration of the word "Unidure" as a trade-mark for a chemical preparation for treating and finishing fabrics to render the same crease resistant and further adjudging applicant's mark not registrable. Opposer relied upon its prior use and registration of the notation "Genuine Wilendur Cloth," in which the words "Genuine" and "Cloth" are disclaimed, as a mark for napkins, scarfs for furniture throws, toweling in the piece, tablecloths, and linen and cotton piece goods.

In response to opposer's argument that applicant's goods and its own are of the same descriptive properties because both applicant and the opposer attach their respective trade-marks to piece goods, it was held that applicant is not seeking registration of its mark for piece goods and opposer's mark is not used in connection with chemical preparations; to say that these two products belong to the same class of merchandise merely because one is employed in processing the other would be far-fetched in the extreme; and that if applicant is using its mark in a manner to denote origin of fabrics, that is a use not sanctioned by the proposed registration and such damage as opposer might sustain would result from the misuse of the mark rather than from its registration.

It was held that since the goods involved are of different descriptive properties, the alleged similarity of the marks becomes immaterial, but that these marks contain well defined differences which constitute an additional factor in obviating the likelihood of confusion.

It was further held that although the opposition was properly dismissed, nevertheless the application as presented should not be allowed since the Examiner of Interferences rightly held that the misinformation conveyed by applicant's distribution of an advertising pamphlet with a tag attached, both bearing applicant's name and its "Unidure" trade-mark with the notation "Reg. U. S. Pat. Off." constitutes such deception as to bar registration at least in the absence of sufficient explanation thereof and on the record presented the inference is inescapable that use of the offending tags was deliberate, as was also applicant's attempt to deceive the Patent Office.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 30, 1946

422,534. PREPARATIONS FOR WATER REPELLANT FINISH TREATMENT OF TEXTILE FIBRES AND FABRICS BOTH NATURAL AND SYNTHETIC. JOSEPH GEORGE NATHANSON, doing business as Soluol Chemical Company, East Greenwich, R. I.
Filed April 14, 1943. Serial No. 459,883. PUBLISHED APRIL 30, 1946. Class 6.

422,535. GINGER ALE AND ROOT BEER. REID, MURDOCH & CO., Chicago, Ill.
Filed May 10, 1943. Serial No. 460,539. PUBLISHED JULY 25, 1944. Class 45.

422,536. PERFUME, TOILET WATER, COLOGNE, SOLID COLOGNE, TALCUM POWDER, DUSTING POWDER, SACHET POWDER, AND BATH SALTS. LUCIEN LELONG, INC., Chicago, Ill.
Filed February 9, 1944. Serial No. 467,294. PUBLISHED MARCH 27, 1945. Class 6.

422,537. VITAMIN CAPSULES AND TABLETS. JULIUS BLACKMAN CORPORATION, doing business as Supreme Pharmaceutical Company, New York, N. Y.
Filed February 22, 1944. Serial No. 467,643. PUBLISHED JUNE 6, 1944. Class 6.

422,538. X-RAY APPARATUS, PARTS, APPURTENANCES, AND APPLIANCES THEREFOR AND FOR USE IN CONNECTION THEREWITH. THE KELLEY-KOETT MANUFACTURING COMPANY, Covington, Ky.
Filed March 3, 1944. Serial No. 467,945. PUBLISHED MAY 7, 1946. Class 44.

422,539. LIQUID DEODORANT FOR PERSONAL USE ONLY. ROSE B. CALDWELL, Chicago, Ill.
Filed March 28, 1944. Serial No. 468,744. PUBLISHED APRIL 3, 1945. Class 6.

422,540. PREPARATION IN LIQUID FORM FOR THE RELIEF OF DISCOMFORTS DUE TO COLDS AND GRIPPE. DODE WRIGHT, doing business as Hy-Ko Products Co., Kansas City, Mo.
Filed July 26, 1944. Serial No. 472,658. PUBLISHED APRIL 30, 1946. Class 6.

422,541. FACE POWDERS. THE GUERLAIN PERFUMERY CORPORATION, Wilmington, Del., and New York, N. Y.
Filed August 17, 1944. Serial No. 473,377. PUBLISHED MARCH 26, 1946. Class 6.

422,542. TOILET CREAMS, TOILET POWDERS, TOILET LOTIONS, FACE CREAMS, FACE POWDERS, FACE LOTIONS, AND PERFUMES. PERSONALITY BEAUTY PRODUCTS LIMITED, Leicestershire, England.
Filed September 18, 1944. Serial No. 474,353. PUBLISHED APRIL 30, 1946. Class 6.

422,543. NON-EATABLE TOY BONES FOR AMUSING DOGS. FRANK E. HUDSON, doing business as J. R. Hudson Company, Everett, Mass.
Filed September 20, 1944. Serial No. 474,413. PUBLISHED MAY 7, 1946. Class 22.

422,544. INCENSE, PERFUME, TOILET WATER, FACE CREAMS, HAND LOTIONS, ROUGE, TOILET POWDERS, LIPSTICK, COLOGNE, SHAMPOO, HAIR TONICS, AND SACHET POWDER. MAURICIO BRAVO, doing business as Bravo Manufacturing Co., Chicago, Ill.
Filed November 1, 1944. Serial No. 475,942. PUBLISHED APRIL 30, 1946. Class 6.

422,545. SALVE FOR THE TREATMENT OF RHEUMATISM. SAMUEL COHEN, doing business as S. C. Sales Company, Baltimore, Md.
Filed November 6, 1944. Serial No. 476,140. PUBLISHED APRIL 30, 1946. Class 6.

422,546. SEDATIVE OF PHENOBARBITAL AND PENTOBARBITAL. BENJAMIN G. MILLER, doing business as Penn Pharmacal Company, New York, N. Y.
Filed November 22, 1944. Serial No. 476,779. PUBLISHED APRIL 30, 1946. Class 6.

422,547. DANDRUFF REMEDY. 4 CCCC INC., New York, N. Y.
Filed December 13, 1944. Serial No. 477,502. PUBLISHED NOVEMBER 20, 1945. Class 6.

422,548. COMPOUND OF A SULFONAMIDE AND A VASOCONSTRICTOR. FREDERICK M. TURNBULL, Los Angeles, Calif.
Filed December 26, 1944. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 477,956. PUBLISHED APRIL 30, 1946. Class 6.

422,549. THREAD AND YARN. R. WOLFENDEN & SONS, Attleboro, Mass.
Filed January 17, 1945. Serial No. 478,731. PUBLISHED MAY 7, 1946. Class 43.

422,550. BOTTLE CARRIERS—NAMELY, SOFT DRINK BOTTLE CARRIERS OF CARDBOARD AND PAPER BOARD. UNIVERSAL CORPORATION, Dallas, Tex.
Filed April 4, 1945. Serial No. 481,725. PUBLISHED MAY 7, 1946. Class 2.

422,551. MANICURE IMPLEMENT SETS, MANICURE SCISSORS, NAIL FILES, CUTICLE PUSHERS, CUTICLE KNIVES, TWEEZERS, AND NAIL BUFFERS. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill., now by change of name Associated Products, Inc.
Filed April 12, 1945. Serial No. 482,038. PUBLISHED MAY 7, 1946. Class 44.

422,552. COMPOUND TO ABATE ITCHING AND PAIN CAUSED BY POISON OAK AND POISON IVY AND TO HASTEN RECOVERY. THE OKUR CO., San Francisco, Calif.
Filed April 20, 1945. Serial No. 482,388. PUBLISHED APRIL 30, 1946. Class 6.

422,553. BRUSH AND COMB SETS, COMBS, BUTTONS, GARMENT BUCKLES, PIN CUSHIONS, AND FITTED SEWING BOXES, ALL OF WHICH ARE NOT MADE OF A PRECIOUS METAL OR METALS. SYRACUSE ORNAMENTAL CO., Syracuse, N. Y.
Filed May 11, 1945. Serial No. 483,245. PUBLISHED APRIL 16, 1946. Class 40.

422,554. ICELESS AND FIRELESS RECEPTACLES FOR RETAINING HEAT OR COLD. HEMP AND COMPANY, INCORPORATED, Macomb, Ill.
Filed May 25, 1945. Serial No. 483,772. PUBLISHED MAY 7, 1946. Class 2.

422,555. PHARMACEUTICALS—NAMELY, LIQUIDS AND OINTMENTS FOR USE AS BACTERICIDES, GERMICIDES, AND ANTIBIOTICS, AND A LIVER EXTRACT WITH ADDED FACTORS OF B-COMPLEX FOR USE IN THE TREATMENT OF ANEMIA AND FOR ALLEVIATION OF DIETARY DEFICIENCIES. WALLACE LABORATORIES, INC., New Brunswick, N. J.
Filed May 30, 1945. Serial No. 484,000. PUBLISHED APRIL 30, 1946. Class 6.

422,556. ROUGE, LIPSTICK, FACE POWDER, CLEANSING CREAM, HAND CREAM, TISSUE CREAM, AND PERSONAL DEODORANT. THE LINDFORS CORPORATION, New York, N. Y.
Filed June 9, 1945. Serial No. 484,351. PUBLISHED APRIL 30, 1946. Class 6.

422,557. WOODEN TOYS—NAMELY, TOY BOXES ON WHEELS, SMALL TOY WAGONS, HOBBY HORSES, ETC. SCANDIA TOYS, Los Angeles, Calif.
Filed June 15, 1945. Serial No. 484,594. PUBLISHED MAY 7, 1946. Class 22.

422,558. HEAVY WHITE MINERAL OIL SOLD IN BULK IN TANK CARS AND DRUMS FOR USE AS A TEXTILE LUBRICANT AND INDUSTRIAL LUBRICANT; A NONFATTENING VEGETABLE OIL SUBSTITUTE; A CATALYST CARRIER IN THE HYDROGENATION OF VEGETABLE OILS; A PLASTICIZER IN LIQUID PRINTING INKS AND INSULATING VARNISHES; A PLASTICIZNG INGREDIENT IN TOOTHPASTE; A PAPER IMPREGNANT IN THE MANUFACTURE OF TRACING PAPERS; AN INGREDIENT IN COSMETICS, CREAMS, AND SIMILAR TOILET PREPARATIONS, AND FOR MEDICINAL PREPARATIONS. L. SONNEBORN SONS, INC., New York, N. Y.
Filed June 28, 1945. Serial No. 485,167. PUBLISHED APRIL 30, 1946. Class 6.

422,559. BIAS BINDING, BLANKET BINDING, BIAS FOLD TAPE, AND DRESS SHIELDS MADE OF MUSLIN FABRIC. DUMARI TEXTILE CO., INC., New York, N. Y.
Filed June 29, 1945. Serial No. 485,204. PUBLISHED MAY 7, 1946. Class 40.

422,560. FILAMENTS, FIBRES AND THREADS MADE FROM REGENERATED VEGETABLE, ANIMAL OR FISH PROTEINS, ETC. I. C. I. (EXPLOSIVES) LIMITED, doing business as Nobel's Explosives Company, Slough, Buckinghamshire, England.
Filed June 29, 1945. Serial No. 485,220. PUBLISHED MAY 14, 1946. Class 43.

422,561. PERFUME, TOILET WATER, AND FACE POWDER. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed July 3, 1945. Serial No. 485,422. PUBLISHED APRIL 30, 1946. Class 6.

422,562. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS FOR MAKING THE SAME. DR. PEPPER COMPANY, Dallas, Tex.
Filed July 10, 1945. Serial No. 485,631. PUBLISHED APRIL 30, 1946. Class 45.

422,563. OINTMENT FOR THE RELIEF OF ITCHING, BURNING, IRRITATED SKIN, AND MINOR SKIN INJURIES. JOSEPH STEM, doing business as Legulo, Chicago, Ill.
Filed July 16, 1945. Serial No. 485,891. PUBLISHED APRIL 30, 1946. Class 6.

422,564. WINES. HORACE O. LANZA, San Francisco, Calif.
Filed August 8, 1945. Serial No. 486,903. PUBLISHED OCTOBER 30, 1945. Class 47.

422,565. KNITTING PINS FOR HAND KNITTING MANUFACTURED FROM ALUMINUM OR ALUMINUM ALLOY WIRE. AVIATION PRODUCTS COMPANY, Montreal, Quebec, Canada.
Filed August 9, 1945. Serial No. 487,023. PUBLISHED MAY 7, 1946. Class 40.

422,566. BRUSH AND COMB SETS, COMBS, ORNAMENTAL PINS, BUTTONS, GARMENT BUCKLES, AND PIN CUSHIONS, ALL OF WHICH ARE NOT MADE OF PRECIOUS METALS. SYRACUSE ORNAMENTAL CO., Syracuse, N. Y.
Filed August 18, 1945. Serial No. 487,291. PUBLISHED MARCH 26, 1946. Class 40.

422,567. COMPARTMENT LUGGAGE—NAMELY, SUITCASES, VALISES, TRAVELLING BAGS, AND TRUNKS. KARL V. WOLSEY, Malden, Mass.
Filed August 21, 1945. Serial No. 487,401. PUBLISHED MAY 7, 1946. Class 3.

422,568. LAUNDRY STARCH, STARCH FINISH, BEING A PREPARATION TO BE ADDED TO STARCH TO FACILITATE STARCHING AND IRONING AND TO WHITEN THE MATERIAL BEING IRONED, LAUNDRY BLUE, AND DENTIFRICE. THE GRAND UNION COMPANY, New York, N. Y.
Filed September 4, 1945. Serial No. 487,940. PUBLISHED APRIL 30, 1946. Class 6.

422,569. STERILIZER AND DEODORANT IN POWDERED FORM HAVING INCIDENTAL CLEANSING PROPERTIES. ACME CHEMICAL COMPANY, Milwaukee, Wis.
Filed September 7, 1945. Serial No. 488,069. PUBLISHED APRIL 30, 1946. Class 6.

422,570. SHOULDER PADS FOR GARMENTS. DOROTHY NOLAN COUGHLIN, Hollywood, Calif.
Filed September 15, 1945. Serial No. 488,513. PUBLISHED APRIL 16, 1946. Class 40.

422,571. NAIL ENAMEL, LIPSTICKS, FACE POWDER, AND ROUGE. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed September 22, 1945. Serial No. 488,869. PUBLISHED MARCH 26, 1946. Class 6.

422,572. WATER PHASE EMULSION WITH SULFATHIAZOLE SUSPENDED THEREIN, IN A COLLOIDAL FORM, FOR EXTERNAL TREATMENT OF VARIOUS SKIN AFFECTIONS, ETC. CROWE LABORATORIES INCORPORATED, Tulsa, Okla.
Filed September 27, 1945. Serial No. 489,042. PUBLISHED APRIL 30, 1946. Class 6.

422,573. PERFUMED HAIR DRESSING LOTION. PARFUM L'ORLE, INC., New York, N. Y.
Filed October 10, 1945. Serial No. 489,756. PUBLISHED APRIL 30, 1946. Class 6.

422,574. ALUMINUM PHOSPHATE. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed October 11, 1945. Serial No. 489,795. PUBLISHED APRIL 30, 1946. Class 6.

422,575. LINIMENT FOR EXTERNAL USE IN TREATMENT OF RHEUMATISM, INSECT BITES, SINUS TROUBLE, COLDS, SPRAINS, ETC. ARTIE L. EGGLESTON, Houston, Tex.
Filed October 15, 1945. Serial No. 489,951. PUBLISHED APRIL 30, 1946. Class 6.

422,576. FLOOR TILE. THE SPARTA CERAMIC COMPANY, East Sparta, Ohio.
Filed October 22, 1945. Serial No. 490,336. PUBLISHED MAY 7, 1946. Class 12.

422,577. TETRASODIUM PYROPHOSPHATE POWDER PREPARATIONS FOR USE IN WASHING PRESERVATIVE SPRAYS AND COATINGS FROM FRUITS AND VEGETABLES. PHILIP FLEISCHMAN, New York, N. Y.
Filed November 5, 1945. Serial No. 491,076. PUBLISHED APRIL 30, 1946. Class 6.

422,578. YARNS OF WOOL, WORSTED, OR HAIR. JAMES TEMPLETON & SON LIMITED, Ayrshire, Scotland.
Filed November 15, 1945. Serial No. 491,686. PUBLISHED APRIL 9, 1946. Class 43.

422,579. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, EAU DE COLOGNE, FACE CREAMS, BATH SALTS, TALCUM POWDERS, AND ROUGES. COTY, INC., New York, N. Y.
Filed November 19, 1945. Serial No. 491,806. PUBLISHED APRIL 30, 1946. Class 6.

422,580. TABLET FOR THE TREATMENT OF HEART CONDITIONS. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed November 19, 1945. Serial No. 491,872. PUBLISHED APRIL 30, 1946. Class 6.

422,581. THREAD. J. & P. COATS (R. I.) INC., Pawtucket, R. I.
Filed November 20, 1945. Serial No. 491,911. PUBLISHED APRIL 16, 1946. Class 43.

422,582. PARASOLS AND UMBRELLAS. M. HAUSMAN & SONS, New York, N. Y.
Filed November 21, 1945. Serial No. 491,977. PUBLISHED APRIL 9, 1946. Class 41.

422,583. PARASOLS AND UMBRELLAS. M. HAUSMAN & SONS, New York, N. Y.
Filed November 21, 1945. Serial No. 491,979. PUBLISHED APRIL 9, 1946. Class 41.

422,584. CHEMICAL PRODUCT USEFUL AS PERFUME INGREDIENT. GIVAUDAN-DELAWANNA, INC., New York, N. Y.
Filed November 23, 1945. Serial No. 492,039. PUBLISHED APRIL 30, 1946. Class 6.

422,585. SEWING THREADS AND YARNS. MUKAMAL COMPANY, New York, N. Y.
Filed November 23, 1945. Serial No. 492,080. PUBLISHED MAY 7, 1946. Class 43.

422,586. ANTIBACTERIAL PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 23, 1945. Serial No. 492,117. PUBLISHED APRIL 30, 1946. Class 6.

422,587. CANES, UMBRELLAS, AND PARASOLS. ARKWRIGHT, INCORPORATED, New York, N. Y.
Filed November 24, 1945. Serial No. 492,124. PUBLISHED MAY 7, 1946. Class 41.

422,588. INSECTICIDE. EIGHT-IN-ONE PRODUCTS COMPANY, Valdosta, Ga.
Filed November 27, 1945. Serial No. 492,261. PUBLISHED APRIL 30, 1946. Class 6.

422,589. MEDICINAL PREPARATION FOR THE TREATMENT OF MIGRAINE AND OTHER NEUROVEGETATIVE SYNDROMES. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed December 3, 1945. Serial No. 492,586. PUBLISHED APRIL 30, 1946. Class 6.

422,590. MEDICINAL PREPARATION FOR THE TREATMENT OF MIGRAINE AND OTHER NEUROVEGETATIVE SYNDROMES. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed December 3, 1945. Serial No. 492,587. PUBLISHED APRIL 30, 1946. Class 6.

422,591. INSECTICIDE AND INSECT REPELLENT. ROBERT D. SPIERS, doing business as Robert D. Spiers Laboratories, St. Petersburg, Fla.
Filed December 5, 1945. Serial No. 492,745. PUBLISHED APRIL 30, 1946. Class 6.

422,592. PENICILLIN IN ORAL DOSAGE FORM. WYETH-STILLE, S. A., Mexico City, Mexico, assignor to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware
Filed December 11, 1945. Serial No. 493,092. PUBLISHED APRIL 30, 1946. Class 6.

422,593. DYESTUFFS. GENERAL DYESTUFF CORPORATION, New York, N. Y.
Filed December 15, 1945. Serial No. 493,341. PUBLISHED APRIL 30, 1946. Class 6.

422,594. TOOTHPASTE. LEADWAY STORES CORPORATION, doing business as Leadway Foods, Chicago, Ill.
Filed December 17, 1945. Serial No. 493,446. PUBLISHED APRIL 30, 1946. Class 6.

422,595. ROUGE, LIPSTICK, PERFUME, AND FACE POWDER. RICHARD HUDNUT, New York, N. Y.
Filed December 20, 1945. Serial No. 493,599. PUBLISHED APRIL 30, 1946. Class 6.

422,596. FIRE BRICK. METROPOLITAN REFRACTORIES CORPORATION, New York, N. Y.
Filed December 20, 1945. Serial No. 493,613. PUBLISHED MAY 7, 1946. Class 12.

422,597. PERFUME AND COLOGNE. HUGH GENSKE, Philadelphia, Pa.
Filed December 26, 1945. Serial No. 493,885. PUBLISHED APRIL 30, 1946. Class 6.

422,598. ADHESIVE BELT CEMENT. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed December 29, 1945. Serial No. 494,063. PUBLISHED MAY 7, 1946. Class 5.

422,599. PNEUMATIC TIRES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 19, 1946. Serial No. 495,026. PUBLISHED MAY 7, 1946. Class 35.

422,600. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,052. PUBLISHED MAY 7, 1946. Class 2.

422,601. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,056. PUBLISHED MAY 7, 1946. Class 2.

422,602. TOILET PREPARATIONS, PERFUMERY, AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIPSTICKS, FACE POWDER, TOILET CREAMS, AND ROUGE. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,067. PUBLISHED APRIL 30, 1946. Class 6.

422,603. LADIES' HAND BAGS. LINCOLN LEATHER GOODS CO., INC., New York, N. Y.
Filed January 22, 1946. Serial No. 495,175. PUBLISHED MAY 7, 1946. Class 3.

422,604. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,299. PUBLISHED MAY 7, 1946. Class 2.

422,605. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,302. PUBLISHED MAY 7, 1946. Class 2.

422,606. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,308. PUBLISHED MAY 7, 1946. Class 2.

422,607. VANITY CASES, COMPACTS, AND LIPSTICK HOLDERS MADE OF BASE METAL AND PLASTIC AND SOLD IN TRADE EMPTY. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,311. PUBLISHED MAY 7, 1946. Class 2.

422,608. ARTIFICIAL TEETH. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa.
Filed February 5, 1946. Serial No. 496,054. PUBLISHED MAY 7, 1946. Class 44.

422,609. LADIES' HANDBAGS OF LEATHER, FABRIC, PLASTIC, AND COMBINATIONS THEREOF. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed February 4, 1946. Serial No. 495,946. PUBLISHED MAY 7, 1946. Class 3.

TRADE-MARK REGISTRATIONS RENEWED

27,388. **STYPTICIN.** SOPORIFICS. Registered Dec. 3, 1895. FIRM OF E. MERCK, Darmstadt, Germany. Renewed Dec. 3, 1945, to The Chemical Foundation, Incorporated, New York, N. Y., a corporation of New York. Class 6.

28,050. **"B SPECIAL" AND DESIGN.** RAZORS. Registered Mar. 31, 1896. CHARLES F. BUTCHER, Sheffield, England. Re-renewed Mar. 31, 1946, to Durham-Enders Razor Corporation, Mystic, Conn., a corporation of New York. Class 23.

46,471. **CUTICLE.** MEDICINAL SOAP, TOILET SOAP, AND SHAVING-SOAP. Registered Sept. 19, 1905. PASFIELD SOAP COMPANY, Brooklyn, N. Y. Re-renewed Sept. 19, 1945, to Amelia Marie Pasfield Sammis, administratrix of the estate of Charles J. Pasfield, doing business as Pasfield Soap Co., Mount Vernon, N. Y. Class 4.

48,251. **"THE BIKE" AND DRAWING.** JOCK-STRAP SUSPENSORIES. Registered Dec. 19, 1905. SHARP & SMITH. Re-renewed Dec. 19, 1945, to The Bike Web Company, Chicago, Ill., a corporation of Illinois. Class 44.

50,131. **BROOKS.** CYCLE-SADDLES. Registered Mar. 6, 1906. J. B. BROOKS AND COMPANY LIMITED, Birmingham, England, a registered company of Great Britain. Re-renewed Mar. 6, 1946. Class 19.

50,139. **OKONITE.** RUBBER INSULATING COMPOUND. Registered Mar. 6, 1906. THE OKONITE COMPANY, LIMITED, New York, N. Y. Re-renewed Mar. 6, 1946, to The Okonite Company, Passaic, N. J., a corporation of New Jersey. Class 21.

51,888. **"REVERE" AND DRAWING.** LIQUID PAINT. Registered Apr. 24, 1906. GEO. D. WETHERILL & CO., INC., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Apr. 24, 1946. Class 16.

52,153. **LIBERTY.** DRESS-SILK. Registered May 1, 1906. LIBERTY SILK COMPANY, New York, N. Y. Re-renewed May 1, 1946, to Liberty & Co. Limited, London, England, an incorporated company of Great Britain. Class 42.

53,735. **BLEACHETTE.** BLUING. Registered June 12, 1906. THE ULTRAMARINE COMPANY. Re-renewed June 12, 1946, to American Cyanamid Company, New York, N. Y., a corporation of Maine. Class 6.

53,948. **DRYOL.** VARNISH, JAPAN, DRIERS, AND LIQUID FILLERS. Registered June 19, 1906. BOSTON VARNISH COMPANY. Re-renewed June 19, 1946, to Boston Varnish Company, Everett, Mass., a corporation of Massachusetts. Class 16.

54,749. **HERSEY.** FLUID-METERS. Registered June 26, 1906. HERSEY MANUFACTURING COMPANY, Boston, Mass. Re-renewed June 26, 1946, to Hersey Manufacturing Company, South Boston, Mass., a corporation of Massachusetts. Class 26.

55,011. **"PRATT'S" ETC. AND DRAWING.** NAPHTHA. Registered Aug. 7, 1906. STANDARD OIL CO. OF NEW YORK, New York, N. Y. Re-renewed Aug. 7, 1946, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York. Class 15.

55,077. **FLEXIBLE FLYER.** SLEDS. Registered Aug. 7, 1906. S. L. ALLEN & CO. Re-renewed Aug. 7, 1946, to S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Class 22.

55,598. **"PHILLIPS'" ETC. AND DESIGN.** LIQUID MAGNESIA PREPARATION. Registered Aug. 21, 1906. THE CHAS. H. PHILLIPS CHEMICAL CO., New York, N. Y. Re-renewed Aug. 21, 1946, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

55,599. **REPRESENTATION OF A CIRCULAR DESIGN ETC.** QUININE PREPARATION. Registered Aug. 21, 1906. THE CHAS. H. PHILLIPS CHEMICAL CO., New York, N. Y. Re-renewed Aug. 21, 1946, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

55,600. **REPRESENTATION OF A CIRCULAR DESIGN ETC.** COD-LIVER-OIL EMULSION. Registered Aug. 21, 1906. THE CHAS. H. PHILLIPS CHEMICAL CO., New York, N. Y. Re-renewed Aug. 21, 1946, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware. Class 6.

55,688. **"STERLING KID" AND DRAWING.** PATENT LEATHER. Registered Aug. 21, 1906. KEYSTONE LEATHER CO., Philadelphia, Pa. Re-renewed Aug. 21, 1946, to Allied Kid Company, Boston, Mass., a corporation of Massachusetts. Class 1.

55,923. **ATHENIA.** CORSETS. Registered Aug. 21, 1906. GEORGE CHANDLER. Re-renewed Aug. 21, 1946, to Cora Chandler's Inc., Boston, Mass., a corporation of Massachusetts. Class 39.

55,965. **AMERICAN.** BAGGING. Registered Aug. 21, 1906. THE AMERICAN MANUFACTURING COMPANY, New York, N. Y. Re-renewed Aug. 21, 1946, to American Manufacturing Company, Brooklyn, N. Y., a corporation of Massachusetts. Class 42.

56,070. **H.** SHAVING-BLADES AND WHITENING-BLADES FOR USE IN TANNERIES AND OTHER ESTABLISHMENTS. Registered Aug. 21, 1906. L. HARDY COMPANY, Worcester, Mass., a corporation of Massachusetts. Re-renewed Aug. 21, 1946. Class 23.

56,074. **FRONTIER.** COFFEE. Registered Aug. 21, 1906. NAVE-MCCORD MERCANTILE COMPANY, St. Joseph, Mo. Re-renewed Aug. 21, 1946, to John Morrell & Co., Ottumwa, Iowa, a corporation of Maine. Class 46.

56,243. **REPRESENTATION OF A HARP ETC.** PIANOS. Registered Sept. 4, 1906. B. H. JANSSEN. Re-renewed Sept. 4, 1946, to Janssen Piano Company, Inc., New York, N. Y., a corporation of New York. Class 36.

56,296. **"NE CEDE MALIS" AND DRAWING.** COFFEE. Registered Sept. 4, 1906. CHASE & SANBORN, Boston, Mass. Re-renewed Sept. 4, 1946, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

196,233. **SIPPERS.** DRINKING STRAWS. Registered Mar. 10, 1925. ALEXANDER HERZ, doing business as The Hygeia Antiseptic Tooth Pick Co. Renewed Mar. 10, 1945, to Herz Manufacturing Corporation, New York, N. Y., a corporation of New York. Class 50.

199,918. **PAIN ESSENTIEL.** PREPARED BREAD FOR INFANTS AND INVALIDS. Registered June 23, 1925. SOCIETE ANONYME L'ALIMENT ESSENTIEL, Nanterre, France, an organized company of France. Renewed June 23, 1945. Class 46.

204,103. **SO BOSS.** COW HOBBLE AND TAIL HOLDER. Registered Oct. 6, 1925. SIMONSEN IRON WORKS. Renewed Oct. 6, 1945, to N. C. Simonsen, doing business as the Simonsen Iron Works, Sioux Rapids, Iowa. Class 50.

205,917. **CHERRY BRAND.** HAMS, CALI HAMS, BACON, LAMB, BEEF, PORK, VEAL, MEAT LOAF, ALL KINDS OF COOKED AND UNCOOKED SAUSAGES, AND LARD. Registered Nov. 17, 1925. EDWARD T. DANAHY CO., INC. Renewed Nov. 17, 1945, to Danahy-Faxon Stores, Inc., Buffalo, N. Y., a corporation of New York. Class 46.

207,165. **BEST UNIVERSAL.** LOCKS, KEYS, AND PARTS OF LOCKS. Registered Dec. 22, 1925. BEST UNIVERSAL LOCK CO., Seattle, Wash. Renewed Dec. 22, 1945, to Best Universal Lock Co., Indianapolis, Ind., a corporation of Washington. Class 25.

207,292. **"AMERICAN MAID" AND DRAWING.** MACARONI, CUT MACARONI, SPAGHETTI, CUT SPAGHETTI, NOODLES, AND VERMICELLI. Registered Dec. 29, 1925. UNION MACARONI COMPANY. Renewed Dec. 29, 1945, to L. Masculine, doing business as Union Macaroni Mfg. Co., Beaumont, Tex. Class 46.

207,581. **OFOME.** SOAP. Registered Jan. 5, 1926. THE "OFOME" COMPANY, LIMITED, London, England. Renewed Jan. 5, 1946, to The "Ofome" Company, Limited, Darwen, England, a United Kingdom corporation. Class 4.

208,305. **"K & S" AND DESIGN.** WHEAT FLOUR, PANCAKE FLOUR, BUCKWHEAT AND WHEAT FLOUR, PURE BUCKWHEAT FLOUR, GRAHAM FLOUR, CORN MEAL, PANCAKE SIRUP, AND EVAPORATED MILK. Registered Jan. 26, 1926. JOHN KNOBEL & SON, Freeport, Ill., a partnership. Renewed Jan. 26, 1946. Class 46.

209,202. **AUTOHOT.** INSTANTANEOUS AUTOMATIC GAS-FIRED HEATERS. Registered Feb. 16, 1926. RUUD MANUFACTURING COMPANY. Renewed Feb. 16, 1946, to Ruud Manufacturing Company, Pittsburgh, Pa., a corporation of Delaware. Class 34.

210,174. **MARINELLO.** FACE POWDER, TALCUM POWDER, ROUGE AND POWDER COMPACTS, COSMETICS FOR BROWS AND EYELASHES, SACHETS, TOILET WATER, PERFUMES, AND CONCENTRATED PERFUME, PREPARATIONS FOR SHAMPOOING HAIR, BRILLIANTINE, HAIR-CURLING FLUID, HAIR WHITENER, BANDOLINE; NAIL BLEACH, CREAM AND POLISH; LIQUID NAIL POLISH AND REMOVER, A PREPARATION TO BE USED IN CONNECTION WITH SOFTENING CUTICLE, FOOT POWDER, FOOT LOTION, DIPILATORY, DEODORANT, PASTES FOR USE ON THE SKIN, MUSCLE OIL, PHENOLENE, A PREPARATION TO BE USED IN CONNECTION WITH ELECTROLYSIS, LIP CREAM, AND PORE CLEANSER. Registered Mar. 9, 1926. MARINELLO COMPANY, Chicago, Ill. Renewed Mar. 9, 1946, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York. Class 6.

210,456. **KOLITE.** ELECTRICAL DISPLAY SIGNS, SUCH AS ARE USED FOR OUTDOOR ADVERTISING PURPOSES. Registered Mar. 16, 1926. JOSEPH KOLLATH. Renewed Mar. 16, 1946, to Kolite Corporation, Schenectady, N. Y., a corporation of New York. Class 21.

210,725. **"CORN FLY" AND DESIGN.** REMEDY FOR CORNS AND BUNIONS, AND FOOT-BATH TABLETS. Registered Mar. 23, 1926. HI-GENE CO. Renewed Mar. 23, 1946, to Elmer H. Stickel, doing business as Hi-Gene Co., Newark, N. J. Class 6.

210,793. **H. R. H.** FACE POWDER. Registered Mar. 23, 1926. AHLSCHLAGER & EDWARDS, Chicago, Ill. Renewed Mar. 23, 1946, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey. Class 6.

210,812. **MARVEL.** WHEAT FLOUR. Registered Mar. 23, 1926. THE KANSAS FLOUR MILLS COMPANY, Wichita, Kans. Renewed Mar. 23, 1946, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey. Class 46.

211,073. **Y. B. STOUT.** CORSETS, BRASSIÈRES, GIRDLES, AND BANDEAUX. Registered Apr. 6, 1926. VENUS BRASSIERE CO., Renewed Apr. 6, 1946, to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware. Class 39.

211,092. **CORSETALLS.** CORSETS, BRASSIÈRES, GIRDLES, AND BANDEAUX. Registered Apr. 6, 1926. VENUS BRASSIERE CO. Renewed Apr. 6, 1946, to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware. Class 39.

211,096. **"VENUS" AND DESIGN.** CORSETS BRASSIÈRES, GIRDLES, AND BANDEAUX. Registered Apr. 6, 1926. VENUS BRASSIERE CO. Renewed Apr. 6, 1946, to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware. Class 39.

211,235. **SUPER MAID COOK-WARE.** COOKING UTENSILS, INCLUDING TRIPLICATE SETS, TEAKETTLES, WAFFLE MOLDS, COFFEEPOTS AND STANDS, FRY PANS, CASSEROLES, DOUBLE FRY PANS, PRESERVING KETTLES, ROASTERS, ROUND SELF-BASTING ROASTERS, COMBINATION SELF-BASTING ROASTERS, SAUCEPANS, COMBINATION GRIDDLES AND BROILERS, AND TEAPOTS. Registered Apr. 6, 1926. SUPER MAID COOK-WARE CORPORATION. Renewed Apr. 6, 1946, to Advance Aluminum Castings, Chicago, Ill., a corporation of Illinois. Class 13.

211,264. **WE-FU-GO.** MACHINERY FOR PURIFYING AND SOFTENING WATER. Registered Apr. 6, 1926. WM. B. SCAIFE & SONS COMPANY, Pittsburgh, Pa. Renewed Apr. 6, 1946, to Scaife Company, Oakmont, Pa., a corporation of Pennsylvania. Class 23.

211,650. **"PUREX" AND DESIGN.** GENERAL CLEANING PREPARATION IN LIQUID FORM WITH INCIDENTAL WATER-SOFTENING PROPERTIES. Registered Apr. 13, 1926. RAY A. PRECOURT, Los Angeles, Calif. Renewed Apr. 13, 1946, to Purex Corporation, Ltd., South Gate, Calif., a corporation of California. Class 4.

211,728. **BUNTING'S ADCATALOG FOR "HOME HARDWARE".** PUBLICATION ISSUED MONTHLY. Registered Apr. 20, 1926. THE BUNTING PUBLICATIONS, INC., Waukegan, Ill. Renewed Apr. 20, 1946, to The Bunting Publications, Inc., North Chicago, Ill., a corporation of Delaware. Class 38.

212,095. **POSITIVE.** MILD STEEL, IRON, AND HIGH-CARBON WELDING RODS. Registered Apr. 27, 1926. STOODY COMPANY. Renewed Apr. 27, 1946, to Stoody Company, Whittier, Calif., a corporation of California. Class 14.

212,119. **STOODITE.** SELF-HARDENING ALLOY-STEEL WELDING RODS. Registered Apr. 27, 1926. STOODY COMPANY. Renewed Apr. 27, 1946, to Stoody Company, Whittier, Calif., a corporation of California. Class 14.

213,300. **"TWIN-ETTES".** CORSETS, BRASSIÈRES, CORSET BRASSIÈRES, CORSET COMBINATIONS WHICH IS A ONE-PIECE GARMENT EMBODYING A BRASSIÈRE OR BUST CONFINER AND GIRDLE, BUST CONFINERS, BUST SUPPORTERS, UNDERWEAR MADE OF BOTH KNITTED AND TEXTILE FABRICS FOR THE USE OF WOMEN, CAMISOLES, BANDEAUX, BELTS FOR PERSONAL WEAR, HIP CONFINERS, AND GIRDLES. Registered May 25, 1926. JACKSON CORSET COMPANY, Jackson, Mich. Renewed May 25, 1946, to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware. Class 39.

213,637. **"JANTZEN" AND DRAWING.** SWIMMING SUITS, KNITTED SWEATER COATS, GLOVES OF LEATHER, RUBBER, FABRIC, AND A COMBINATION THEREOF, SUITS FOR MEN, WOMEN, AND CHILDREN; UNDERWEAR OF TEXTILE FABRIC, ROBES, HOSIERY; HATS FOR MEN, WOMEN, AND CHILDREN; CAPS FOR MEN, WOMEN, AND CHILDREN; JERSEY VESTS, AND SCARFS. Registered June 1, 1926. JANTZEN KNITTING MILLS, Portland, Oreg., a corporation of Oregon. Renewed June 1, 1946. Class 39.

213,638. **ARCADIA.** ARTISTS', CALCIMINE, COUNTER DUSTERS, FITCH, FRESCO, FLOOR SWEEPS, FLOWING, FURNITURE-RUBBING, GLUE, PAINT, PASTE, PAINTER DUSTERS, PAPER-HANGERS', PLASTERERS', RADIATOR, ROOF, SASH, SHIP-SEAMING, STAIR DUSTERS, STUCCO, STENCIL, STIPPLING, VARNISH, WHITEWASH AND WASHING BRUSHES. Registered June 1, 1926. PITTSBURGH PLATE GLASS COMPANY, RENNOUS-KLEINLE DIVISION, Baltimore, Md. Renewed June 1, 1946, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Class 29.

213,839. **"KEE YEE" AND DRAWING.** RHEUMATISM MEDICINE. Registered June 8, 1926. CHIN QUONG, San Francisco, Calif. Renewed June 8, 1946. Class 6.

213,989. **AEROIDS.** CYANIDES. Registered June 8, 1926. AMERICAN CYANAMID COMPANY, New York, N. Y., a corporation of Maine. Renewed June 8, 1946. Class 6.

214,131. **"STONEWALL JACKSON" AND PORTRAIT.** SELF-RISING AND PLAIN WHEAT FLOUR. Registered June 15, 1926. SHENANDOAH MILLING COMPANY, INCORPORATED, Shenandoah, Va. Renewed June 15, 1946, to Charles Banks Stout, Memphis, Tenn. Class 46.

214,177. **MIDTEXSO.** SOAP PRODUCT PREPARED FOR WET CLEANING. Registered June 15, 1926. THE MIDLAND CHEMICAL LABORATORIES, INC. Renewed June 15, 1946, to Midland Laboratories, Dubuque, Iowa, a corporation of Iowa. Class 4.

214,337. **"TRIAD" AND DESIGN.** WATER HEATERS. Registered June 22, 1926. RICHARD LOUIS GEASLEN, doing business as Triad Products Co. Renewed June 22, 1946, to Triad Products Corporation, Chicago, Ill., a corporation of Illinois. Class 34.

214,560. **"BOOM" AND DRAWING.** LATHES, PLANERS, DRILL PRESSES, BORING MILLS, SHAPERS, BAND SAWS, SAW TABLES, HACKSAWS, BOLT CUTTERS, PUNCH PRESSES, SHEARS, ROLLS, CLUTCHES, KEY SEATERS, INTERNAL-COMBUSTION ENGINES, CHISELS, PUNCHES, REAMERS, TAPS, DIES, DRILLS, FILES, CUTTERS, SAW BLADES, AND HAMMERS. Registered June 29, 1926. WILLIAM B. BOOM, Cleveland, Ohio. Renewed June 29, 1946. Class 23.

214,651. **GAUZETS.** SANITARY NAPKINS. Registered June 29, 1926. UNITED DRUG COMPANY, Boston, Mass. Renewed June 29, 1946, to United-Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Class 44.

214,659. **A F CO.** ADVERTISING AND PUBLICITY MOTION-PICTURE FILMS. Registered June 29, 1926. ALEXANDER INDUSTRIES, INC., Englewood, Colo. Renewed June 29, 1946, to Alexander Film Co., Colorado Springs, Colo., a corporation of Delaware. Class 26.

214,849. **SPODE.** CHINA AND EARTHENWARE. Registered July 6, 1926. W. T. COPELAND & SONS. Renewed July 6, 1946, to W. T. Copeland & Sons, Limited, Stoke-on-Trent, Staffordshire, England, a United Kingdom corporation. Class 30.

215,224. **CYANOGAS.** DUSTERS—NAMELY, SPRAYERS AND PARTS THEREOF. Registered July 13, 1926. AMERICAN CYANAMID COMPANY, New York, N. Y., a corporation of Maine. Renewed July 13, 1946. Class 23.

215,285. **"ARTPLATE ELECTROS" AND DESIGN.** ELECTROTYPE. Registered July 13, 1926. THE ART ELETROTYPE FOUNDRY COMPANY. Renewed July 13, 1946, to The Art Electrotype Co., Cleveland, Ohio, a corporation of Ohio. Class 50.

215,525. **"ADVANCE" ETC.** CAST-ALUMINUM COOKING UTENSILS. Registered July 20, 1926. ADVANCE PATTERN & FOUNDRY COMPANY. Renewed July 20, 1946, to Advance Aluminum Castings Corp., Chicago, Ill., a corporation of Illinois. Class 13.

215,832. **DORWIC.** MEDICAL PREPARATIONS—NAMELY, AN OINTMENT FOR BURNS, CAPSULES CONTAINING MEDICINE FOR RELIEF OF INDIGESTION, AND A TREATMENT FOR NEURITIS, SCIATICA, AND RHEUMATISM. Registered July 27, 1926. LESTER D. WINDSOR, Salisbury, Md. Renewed July 27, 1946. Class 6.

216,018. **ARC-LITE.** READY-MIXED PAINT AND PAINT ENAMEL. Registered Aug. 3, 1926. BOSTON VARNISH COMPANY, Everett, Mass., a corporation of Massachusetts. Renewed Aug. 3, 1946. Class 16.

216,019. **TUDOR.** PAINT ENAMELS AND VARNISHES. Registered Aug. 3, 1926. BOSTON VARNISH COMPANY, Everett, Mass., a corporation of Massachusetts. Renewed Aug. 3, 1946. Class 16.

216,032. **DOLLY-DIMPLE.** SHIRTINGS, DRESS GOODS, AND DRAPERY FABRICS IN THE PIECE. Registered Aug. 3, 1926. THE LORTEX COMPANY. Renewed Aug. 3, 1946, to American Bleached Goods Company, Inc., New York, N. Y., a corporation of Delaware. Class 42.

216,084. **"SUNTONE" AND DRAWING.** DRY POWDER TO BE MIXED WITH COLD WATER AND USED AS A DECORATIVE WALL COATING. Registered Aug. 3, 1926. THE MURALO COMPANY, INC., New Brighton, N. Y. Renewed Aug. 3, 1946, to The Muralo Company, Inc., Staten Island, N. Y., a corporation of New York. Class 16.

216,257. **"A & P" AND DESIGN.** PREPARED FOODS SPECIFICALLY FARINA, AND THE FOLLOWING CANNED FOODS—NAMELY, SALMON, TUNNY, EVAPORATED MILK, SQUASH, ASPARAGUS, PEACHES, TOMATOES, LIMA BEANS, SUCCOTASH, PEAS, APPLE SAUCE, CHERRIES, CORN, TINY PEAS, EARLY VARIETY PEAS, PORK AND BEANS, GOLDEN BANTAM CORN, CRUSHED PINEAPPLE, LOGANBERRIES, RED RASPBERRIES, SLICED PINEAPPLE, STRINGLESS BEANS, ASPARAGUS TIPS, APRICOTS, SPINACH, BARTLETT PEARS, BEETS, PUMPKIN, BIRD FOOD, GELATIN, COCOA, SALAD OIL PRESSED FROM COTTON SEED, AND OTHER CERTAIN NAMED FOOD PRODUCTS. Registered Aug. 10, 1926. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, Jersey City, N. J. Renewed Aug. 10, 1946, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a corporation of New Jersey. Class 46.

216,292. **REPRESENTATION OF A COW AND BLUE TRIANGLE.** CANNED EVAPORATED MILK. Registered Aug. 10, 1926. LIBBY, MCNEILL & LIBBY, Chicago, Ill., a corporation of Maine. Renewed Aug. 10, 1946. Class 46.

216,605. **CALIFORANGE.** CONCENTRATED CALIFORNIA CITROUS FRUIT JUICES FOR SOFT-DRINK PURPOSES. Registered Aug. 17, 1926. THE EXCHANGE ORANGE PRODUCTS CO., San Dimas, Calif. Renewed Aug. 17, 1946, to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California. Class 45.

216,625. **FARMER BOY.** CANE SIRUP FOR FOOD PURPOSES. Registered Aug. 17, 1926. ALABAMA-GEORGIA SYRUP COMPANY, Montgomery, Ala., a corporation of Alabama. Renewed Aug. 17, 1946. Class 46.

216,645. **"LEVENSPILLEN VAN DR. ROSS" ETC, AND DRAWING.** PREPARATIONS FOR THE TREATMENT OF BOWEL AND LIVER DISEASES. Registered Aug. 17, 1926. THE SYDNEY ROSS CO., Newark, N. J., a corporation of New Jersey. Renewed Aug. 17, 1946. Class 6.

216,646. **"PILULES DE VIE DU DR. ROSS" ETC. AND DRAWING.** PREPARATIONS FOR THE TREATMENT OF BOWEL AND LIVER DISEASES. Registered Aug. 17, 1926. THE SYDNEY ROSS CO., Newark, N. J., a corporation of New Jersey. Renewed Aug. 17, 1946. Class 6.

216,700. **"DR. ROSS' LIFE PILLS" (IN ARABIC), ETC. AND DRAWING.** PREPARATIONS FOR THE TREATMENT OF BOWEL AND LIVER DISEASES. Registered Aug. 17, 1926. THE SYDNEY ROSS CO., Newark, N. J., a corporation of New Jersey. Renewed Aug. 17, 1946. Class 6.

216,701. **"PILULAS DE VIDA DO DR. ROSS" ETC. AND DRAWING.** PREPARATIONS FOR THE TREATMENT OF BOWEL AND LIVER DISEASES. Registered Aug. 17, 1926. THE SYDNEY ROSS CO., Newark, N. J., a corporation of New Jersey. Renewed Aug. 17, 1946. Class 6.

216,741. **"SPHINX" AND DRAWING.** NAPHTHA, GASOLINE, AND BENZENE. Registered Aug. 17, 1926. VACUUM OIL COMPANY. Renewed Aug. 17, 1946, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York. Class 15.

216,812. **KAYTEX.** HOSIERY FOR MEN, WOMEN, AND CHILDREN MADE OF SILK, ARTIFICIAL SILK, COTTON, LISLE AND COMBINATIONS THEREOF, FABRIC GLOVES, AND KNITTED OR TEXTILE UNDERWEAR. Registered Aug. 24, 1926. JULIUS KAYSER AND CO., New York, N. Y., a corporation of New York. Renewed Aug. 24, 1946. Class 39.

216,917. **"MAMOLITH" AND DRAWING.** READY-MIXED PAINTS AND PAINT ENAMELS. Registered Aug. 24, 1926. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Renewed Aug. 24, 1946, to The Foy Paint Company, Inc., Norwood, Cincinnati, Ohio, a corporation of Ohio. Class 16.

216,918. **"XL" IN A MONOGRAM.** PIPE COUPLINGS AND NIPPLES. Registered Aug. 24, 1926. WHEELING MACHINE PRODUCTS CO., Wheeling, W. Va., a corporation of West Virginia. Renewed Aug. 24, 1946. Class 13.

216,923. **RIVERDALE.** CANNED VEGETABLES AND BUTTER. Registered Aug. 24, 1926. JOHN MORRELL & CO., Ottumwa, Iowa, a corporation of Maine. Renewed Aug. 24, 1946. Class 46.

216,967. **PERSIAN GARDEN.** TOILET PREPARATIONS—NAMELY, COLD CREAM, VANISHING CREAM, FACE POWDER, ROSE CREAM LOTION, OLIVE SHAMPOO, HONEY AND ALMOND CREAM, QUININE HAIR TONIC, LILAC TOILET WATER, AND LEMON LOTION. Registered Aug. 24, 1926. GEORGE C. WILSON, doing business as The Wilson Chemical Company. Renewed Aug. 24, 1946, to The Wilson Chemical Company, Tyrone, Pa., a corporation of Delaware. Class 6.

216,982. **REPRESENTATION OF AN ARCH AND HAND.** LEATHER SHOES. Registered Aug. 24, 1926. CRADDOCK-TERRY CO. Renewed Aug. 24, 1946, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia. Class 39.

216,996. **QUEEN QUALITY OSTEOS.** MEN'S, WOMEN'S, CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. Registered Aug. 24, 1926. THOMAS G. PLANT COMPANY, Boston, Mass. Renewed Aug. 24, 1946, to International Shoe Company, St. Louis, Mo., a corporation of Delaware. Class 39.

217,024. **"DR. MARSHALL'S" ETC. AND DESIGN.** CATARRH SNUFF. Registered Aug. 24, 1926. WILLIAMS MANUFACTURING CO., Cleveland, Ohio, a firm. Renewed Aug. 24, 1946. Class 6.

217,072. **"PANSY" AND DRAWING.** CANE SIRUP FOR FOOD PURPOSES. Registered Aug. 24, 1926. ALABAMA-GEORGIA SYRUP COMPANY, Montgomery, Ala., a corporation of Alabama. Renewed Aug. 24, 1946. Class 46.

217,083. **SKIP-FLEA.** FLEA OR INSECT POWDER. Registered Aug. 24, 1926. POLK MILLER PRODUCTS CORPORATION, Richmond, Va., a corporation of Virginia. Renewed Aug. 24, 1946. Class 6.

217,134. **"LEMCO".** CASEMENTS. Registered Aug. 24, 1926. LUNDELL-ECKBERG MANUFACTURING CO. INC., Jamestown, N. Y., a corporation of New York. Renewed Aug. 24, 1946. Class 12.

217,172. **GRANOLITH.** READY-MIXED PAINTS. Registered Aug. 24, 1926. UNITED STATES GUTTA PERCHA PAINT COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed Aug. 24, 1946. Class 16.

217,231. **WHITEX.** BLUING FOR FABRICS. Registered Aug. 31, 1926. WHITEX CORPORATION. Renewed Aug. 31, 1946, to Park & Tilford, New York, N. Y., a corporation of New York. Class 6.

217,246. **MOBILUBRICANT.** OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS FOR LUBRICATING, ILLUMINATING, HEATING, AND FUEL PURPOSES, ALSO GASOLINE. Registered Aug. 31, 1926. VACUUM OIL COMPANY. Renewed Aug. 31, 1946, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York. Class 15.

217,267. **"WEBER" AND DESIGN.** PALETTES, PALETTE CUPS, AND PALETTE KNIVES, MODELING TOOLS, ETCHERS' PRESSES, ROLLERS, PAINTS, ERASING KNIVES, ARTISTS' SCRAPERS, GRAVERS, AND BURNISHERS. Registered Aug. 31, 1926. F. WEBER CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 31, 1946. Class 23.

217,281. **LAIDTONE.** BLANK PAPER, TRANSLUCENT PAPER, COATED BOOK PAPER, BOX PAPER, COVER PAPER, CALENDAR-STOCK PAPER, PAPER FOR MOUNTING PHOTOGRAPHIC PRINTS, AND GREETING CARDS. Registered Aug. 31, 1926. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 31, 1946. Class 37.

217,348. **HEGGIE-SIMPLEX.** HEATING BOILERS AND GARBAGE BURNERS. Registered Aug. 31, 1926. HEGGIE-SIMPLEX BOILER COMPANY, Joliet, Ill. Renewed Aug. 31, 1946, to Lookout Boiler and Manufacturing Company, Chattanooga, Tenn., a corporation of Tennessee. Class 34.

217,438. **"MURAL-TEX" AND DESIGN.** DRY POWDER TO BE MIXED WITH WATER AND USED AS A PLASTIC PAINT FOR WALL AND CEILING SURFACES. Registered Aug. 31, 1926. THE MURALO COMPANY, INC., New Brighton, N. Y. Renewed Aug. 31, 1946, to The Muralo Company, Inc., Staten Island, N. Y., a corporation of New York. Class 16.

217,456. **SUN-LAC.** LACQUERS. Registered Aug. 31, 1926. UNITED STATES GUTTA PERCHA PAINT COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed Aug. 31, 1946. Class 16.

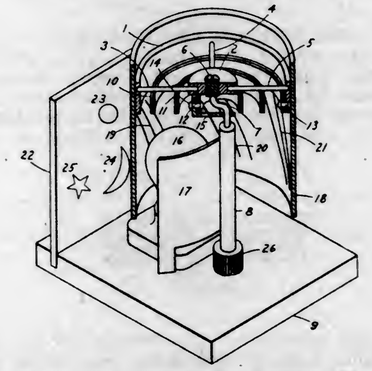
22,774

ROTARY HEAT MOTOR

George W. Crise, Columbus, Ohio

Original No. 2,337,084, dated December 21, 1943, Serial No. 349,791, August 2, 1940. Application for reissue October 21, 1944, Serial No. 559,717

3 Claims. (Cl. 60—23)



3. A heat motor comprising a spiral thermally distortable bimetallic coil, a rotor to which one end of said coil is secured, means mounting the rotor for rotation on an axis eccentric with respect to the axis about which the other end of the coil winds, and means for so producing a temperature differential in different regions of said coil as to cause distortion thereof through the alternate heating and cooling to produce rotation.

22,775

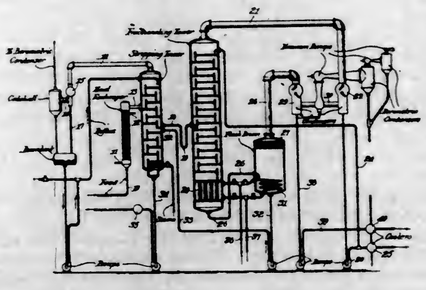
TREATING FATTY ACID-CONTAINING STOCK

Ralph H. Potts, La Grange, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

Original No. 2,322,056, dated June 15, 1943, Serial No. 298,722, October 9, 1939. Application for reissue February 10, 1945, Serial No. 577,252

16 Claims. (Cl. 202—53)

16. In a method for treating stock containing a mixture of saturated and unsaturated fatty acids of different boiling points, the unsaturated fatty acids having relatively high boiling points, the steps of removing substantially all water from said stock, subjecting said stock to fractional distillation in a fractionating zone in the substantial absence of steam, maintaining a pressure in the neighborhood of 2 mm. mercury at the upper portion of said zone, the pressure in the lower portion of said zone being in the neighborhood of 32 mm. mercury, withdrawing from the upper portion of said zone a vaporous low boiling fatty acid fraction, condensing at least a portion of said vaporous low boiling fraction, returning at least a part of the condensate to the upper portion of said zone as reflux liquid, with-



drawing from the lower portion of said zone a liquid fatty acid fraction containing predominantly unsaturated fatty acids, passing said withdrawn liquid fraction into a flash zone having a pressure in the neighborhood of 2 mm. mercury adding heat to the flash zone to maintain the temperature of the fraction in said flash zone at least substantially as high as that in the lower portion of said fractionating zone whereby the more volatile portions of the unsaturated fatty acid fraction are vaporized in said flash zone, and withdrawing a vaporous fatty acid fraction and a liquid fatty acid fraction from said flash zone.

PATENTS

GRANTED JULY 30, 1946

2,404,769

DIRECT DYE PLANOGRAPHIC PRINTING COMPOSITIONS

Chester A. Amick, Bound Brook, N. J., assignor to American Cyanamid Company, Bound Brook, N. J., a corporation of Maine

No Drawing. Application December 23, 1944, Serial No. 569,624

20 Claims. (Cl. 8—62)

1. A putty suitable for planographic printing comprising a color capable of being directly fixed on cellulose without mordanting, a carbohydrate gum as the essential bodying ingredient and an amide of an acid included in the group consisting of carbonic acid, thiocarbonic acid and cyanuric acid, all of the ionizable hydrogen atoms of the acid being amidified and the amide having at least one free reactive hydrogen atom and being present in the form of a reaction product with the carbohydrate gum, the putty being hard at room temperature, thermoplastic, displaying plasticity through a range from about 37 to 40° F. to about 113° F., and showing good keeping qualities when exposed to ordinary moist atmosphere, the putty containing from 45 to 65% of carbohydrate gum, and from 6 to 25% of the amide.

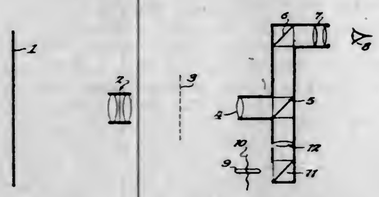
2,404,770

OPTICAL SCANNING DEVICE AND PROCESS OF MAKING ARTICLES THEREWITH

Alva H. Bennett, Kenmore, N. Y., and Edgar D. Tillyer, Southbridge, Mass., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association

Application August 19, 1943, Serial No. 499,280

7 Claims. (Cl. 51—165)



1. In a device of the character described, means for supporting a blank relative to a tool, a master to be duplicated on said blank, an optical system for projecting an image of said master on said blank and optical means for observing said image in said superimposed relation while guiding said tool and blank relative to each other to duplicate said master on said blank.

2,404,771

MONOTHIAZYL DITHIOCARBONATES AND METHOD FOR PREPARING SAME

Edward S. Blake, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Original application February 26, 1941, Serial No. 380,677. Divided and this application June 23, 1943, Serial No. 491,921

18 Claims. (Cl. 260—306)

1. The chemical product comprising a monothiazyl dithiocarbonate in which the said thiazyl radical is linked to one sulfur atom of the dithiocarbonate nucleus and a radical selected from the group consisting of alkyl, aralkyl, aryl, alicyclic and terpene radicals is directly linked to the second sulfur atom of the same dithiocarbonate nucleus.

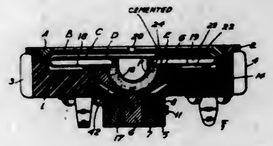
2,404,772

TELEPHONE TRANSMITTER

George H. Brodie, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois

Application December 21, 1942, Serial No. 469,767

5 Claims. (Cl. 179—122)



5. A sub-assembly for a telephone transmitter comprising a metal diaphragm having an electrode portion formed integrally therewith, said electrode portion comprising a cylindrical connecting part ending in a generally hemispherical electrode, a collar secured around the cylindrical part, and a flexible annular member having its inner portion secured to said diaphragm and electrode by said collar.

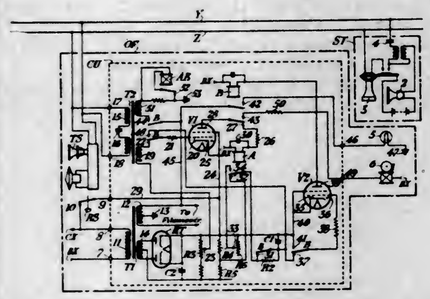
2,404,773

APPARATUS FOR COMMUNICATION SYSTEMS

Robert H. Brown, Westview, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application August 30, 1945, Serial No. 613,627

10 Claims. (Cl. 179—2)



1. In apparatus for communication systems, the combination comprising, supply means to transmit a calling current, a selector circuit adapted to receive such calling current, a controlled ionization tube provided with an anode cathode circuit including a power source and an electromagnet and with a control electrode cathode circuit including a capacitor, a charging circuit including a source of direct voltage, a discharging circuit including a resistor, circuit means

governed by said selector circuit and operable to connect either said charging circuit or said discharging circuit across said capacitor according as calling current is not or is being received, said charging circuit to charge the capacitor at a voltage as required to bias said control electrode negative in potential with respect to said cathode to retain the tube deionized, said discharging circuit to discharge said capacitor at a preselected rate to permit said tube to be ionized and said electromagnet energized in a preselected time interval, and a call indicator governed by said electromagnet.

2,404,774

PHOTOGRAPHIC DEVELOPING PROCESS

Fritz Dersch, Binghamton, and Newton Heimbach, Johnson City, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 2, 1943, Serial No. 493,254

19 Claims. (Cl. 95—88)

2. A process for the development of a gelatino silver halide emulsion which comprises developing such an emulsion in a developer containing a compound of the general formula



wherein Y represents a member of the group consisting of oxygen and NH, X represents a member of a group consisting of hydrogen, methyl, and allyl radicals and cyanogen, but cyanogen only when Y represents NH, in a concentration of from about 50 to 150 grams to 1 liter of developing solution.

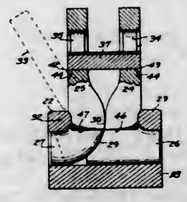
2,404,775

HAMMER FOR IMPACT CRUSHERS

Leslie G. Ehmann, Portland, Oreg., assignor to Electric Steel Foundry Company, Portland, Oreg., a corporation of Oregon

Application December 9, 1941, Serial No. 422,205

12 Claims. (Cl. 241—197)



1. An impact hammer for rotary crushers comprising a hammer head, an elongated recess in the upper surface of said head, a pair of shoulders overhanging the opposite ends of said recess, a pair of arms each having an end extending into corresponding ends of said recess, said arm ends having lateral projections extending cooperatively under corresponding of said overhanging shoulders, said arms being insertable separately into said recess, a first of said pair of arms having a concave curved surface opposite the lateral projection thereof, the second of said arms having a convex curved surface opposite the lateral projection thereof for abutting cooperatively against the curved surface of said first arm when said two arms are assembled in said recess for preventing disengagement of said projections from said shoulders, the curvatures of said convex and concave curved surfaces being such that said second of the arms is moved into assembled relation with the first arm and head from a position angularly away from said first arm.

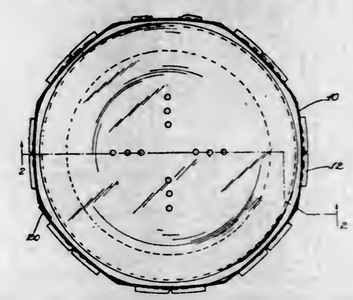
2,404,776

COVER HOLDING BAND FOR PIES AND THE LIKE

William Ehrlich, Fox River, Wis.

Application May 15, 1943, Serial No. 487,405

1 Claim. (Cl. 206—44)



A cover-holding band for pies and the like comprising a strip of material having its ends joined, a series of longitudinal slits in the strip adjacent the middle line thereof and at regular intervals therearound, and a shorter transverse slit adjacent each longitudinal slit, and connecting into the middle portion thereof, the longitudinal slit having its ends turned downwardly and inwardly, the associated slits, when opened, being for the gripping reception of parts of the periphery of a pie-supporting plate and a co-operating cover therefor, the band adapted for encircling the periphery of such pie plate and associated cover, with portions of the pie plate and cover projecting through the opened slits.

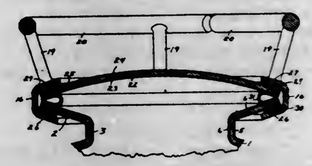
2,404,777

CONTAINER AND CLOSURE THEREFOR

Walter S. Gaines, Chagrin Falls, Ohio, assignor, by mesne assignments, to Republic Industries, Inc., New York, N. Y., a corporation of Delaware

Application January 29, 1942, Serial No. 428,731

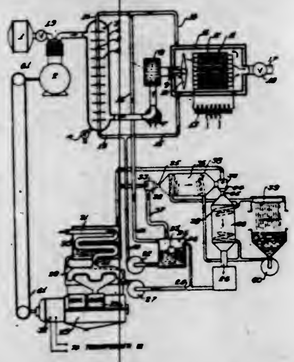
1 Claim. (Cl. 220—61)



A sealing closure for the opening of a steel-walled vessel having an outwardly and upwardly flaring frusto-conical flange surrounding the opening, and a coat of vitreous enamel on the inside of the vessel extending outwardly over the flange; a yieldable sealing gasket of generally annular form having its mid-zone folded inwardly on such enamelled flange and its lower margin turned under the flange; a cover overlying the opening and having a peripheral frusto-conical portion; a coat of enamel on the portion of the cover engaging the gasket, said gasket having its upper margin folded over onto the top of the cover; and means to force the cover to-

ward the opening to sealingly press the margins of the gasket against the under surface of the flange and the top surface of the cover and press its mid-zone between the enamel-coated surfaces of the flange and cover.

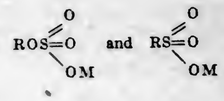
2,404,778
APPARATUS FOR PRODUCING OZONE
Donald K. Allison, Beverly Hills, Calif.
Application June 29, 1942, Serial No. 448,987
3 Claims. (Cl. 204—314)



1. An apparatus for producing ozone comprising an air compressor, a refrigerating unit for chilling air compressed by said compressor, an ozonizing chamber having electrical means associated therewith, means for conducting chilled air from said unit to said chamber for ozonization by said electrical means, means for varying the amount of ozonized air withdrawn from said chamber thereby varying the load on said compressor and electrical means, and means for supplying a refrigerant to said refrigerating unit and for automatically regulating the refrigerating effect thereof in accordance with variations in the amount of ozonized air withdrawn from the chamber, comprising a heat responsive refrigerating system including said refrigerating unit, an electrical generator for energizing said electrical means, an internal combustion engine drivably connected with said compressor and generator, the power output of said engine then varying in proportion to the load on the compressor and electrical means and hence varying in accordance with the variations in the amount of ozonized air withdrawn, and means to transmit heat generated incidental to operation of the engine to said heat responsive refrigerating system.

2,404,779
PROCESS FOR THE COPOLYMERIZATION OF ASYMMETRICAL DIHALOGENATED ETHYLENES
Harold W. Arnold, Marshallton, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 19, 1941, Serial No. 407,415
7 Claims. (Cl. 260—84)

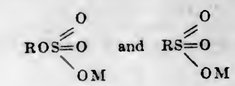
3. A polymerization process for obtaining a resinous material, which consists in emulsifying a mixture containing 20–95% by weight of an asymmetrical dihalogenated ethylene and a polymerizable compound from the group consisting of an alkyl ester and nitrile of an alpha-methylene monocarboxylic acid, in an aqueous medium having a pH ranging from about 1 to 5, an aqueous to non-aqueous phase ratio of from 10:1 to 1:1, and containing from 0.1% to 10%, based on the weight of the monomers, of a dissolved salt of perdisulfuric acid and from about .2% to 5% of a dispersing agent selected from the group consisting of



wherein R is an acyclic hydrocarbon radical of 12 to 18 carbon atoms and M is an alkali metal, and maintaining the resulting emulsion at a temperature ranging from 0° C.–80° C. until desired polymerization becomes effected.

2,404,780
PROCESS FOR THE CONJOINT POLYMERIZATION OF VINYL CHLORIDE WITH FUMARIC ESTERS
Harold W. Arnold, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1942, Serial No. 427,921
7 Claims. (Cl. 260—78)

1. The process for obtaining a resinous material which comprises polymerizing at a temperature ranging from about 0° C.–80° C. the polymerizable components of an emulsion consisting of vinyl chloride in admixture with from 1–25% by weight of said polymerizable components of a fumaric diester of a saturated, single monohydric alcohol containing not more than 2 carbon atoms in an aqueous medium wherein the ratio of aqueous to non-aqueous phase ranges from 10:1 to 1:1, and having a pH ranging from about 1 to 5 and containing a catalytic amount of a dissolved salt of perdisulfuric acid and from .2% to .5%, based on the weight of said aqueous medium, of a dispersing agent selected from the group consisting of

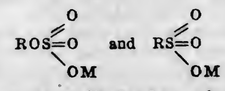


wherein R is an acyclic hydrocarbon of 12–18 carbon atoms and M is an alkali metal.

2,404,781
VINYL POLYMERS
Harold W. Arnold, Wilmington, Del., Merlin Martin Brubaker, Boothwyn, Pa., and George L. Dorough, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1942, Serial No. 427,922
2 Claims. (Cl. 260—84)

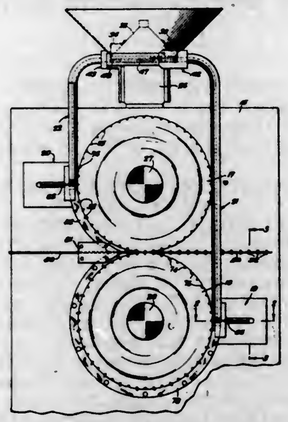
1. A polymerization process for obtaining a resinous material which consists in emulsifying in an aqueous medium a mixture of a vinyl halide with an alkyl ester of an alpha-methylene aliphatic monocarboxylic acid, employing a 5–95% by weight amount of vinyl halide in said mixture, said medium having a ratio of aqueous to non-aqueous phase of from between 10:1 and 1:1 and containing from 0.1% to 4%, based on the weight of monomers employed, of a dissolved salt of perdisulfuric acid, and from 0.5% to 3%, based on the weight of the aqueous medium, of a

dispersing agent selected from the group consisting of



wherein R is an acyclic hydrocarbon containing 12–18 carbon atoms and M is an alkali metal, and then polymerizing the emulsified mixture at a temperature ranging from 0° C. to 80° C.

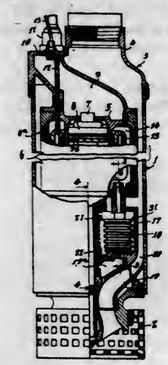
2,404,782
ASSEMBLING APPARATUS
George E. Berggren, Baltimore, Edward Bertalan, Glen Arm, and Alexander Logan, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 30, 1944, Serial No. 565,840
6 Claims. (Cl. 29—200)



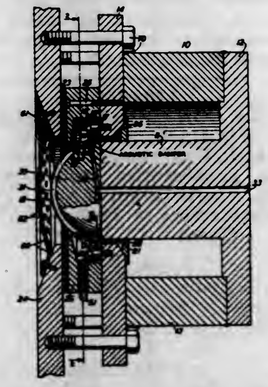
1. In an apparatus for applying soft annular discs to a conductor, means for feeding a plurality of such discs along a predetermined path and to a conductor, and means adjacent to said path including means for cutting each of the annular discs advanced therealong to form discontinuous annuli, means passing through the resulting cuts in the discs for expanding the cuts and means entering the expanded cuts for maintaining them expanded, said last mentioned means extending to the conductor, whereby the conductor slides freely through the expanded cuts without damaging the discs.

2,404,783
SUBMERSIBLE MOTOR
Carl J. Blom, San Marino, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application August 1, 1944, Serial No. 547,617
15 Claims. (Cl. 103—87)

1. An electric motor driven pump structure comprising: a motor chamber and a seal chamber at one end thereof, said chambers adapted to contain a dielectric liquid, a motor in said motor chamber, a shaft extending from said motor through said seal chamber to the exterior thereof, a pump impeller on the extended end of said shaft, mechanical seal units surrounding said shaft to isolate said seal chamber from liquid transfer along said shaft from the exterior or from said motor chamber, and a flexible partition having one side exposed to said motor chamber and its other side exposed to said seal chamber to compensate for changes in volume of the liquid in the seal chamber.

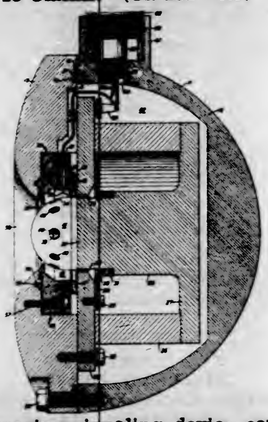


2,404,784
ACOUSTIC DEVICE
Lee G. Bostwick, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 7, 1940, Serial No. 339,261
10 Claims. (Cl. 177—386)



9. A submarine sound receiver comprising a structure including magnetic means having a center pole, and a plate pole spaced therefrom to define an annular air-gap, a diaphragm of thin non-magnetic metal having a central, outwardly convex dome portion and a resilient supporting flange portion secured to said plate pole, a sound current coil secured to the diaphragm and positioned in the air-gap, an outwardly convex stop member secured to said center pole, spaced from the dome portion of the diaphragm and defining therewith a chamber, a ring of rubber-like material secured to said structure and to the convex side of the diaphragm, intermediate the center and the supporting flange thereof, to limit a portion only of the diaphragm dome to external pressure, a portion each of the ring, the structure and the diaphragm defining a second chamber, behind said ring and outside of the diaphragm, the portion of the diaphragm between the ring and flange containing perforations through which said chambers are interconnected, and acoustic resistance material secured to the diaphragm over said perforations.

2,404,785
ELECTROMECHANICAL DEVICE
Lee G. Bostwick and John H. King, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 5, 1942, Serial No. 445,974
15 Claims. (Cl. 181—0.5)



1. A submarine signaling device comprising a diaphragm having a portion bowed outwardly with respect to the water, and a centrally apertured member of sheet material secured at its inner peripheral portion to said diaphragm portion to restrict the area of the latter exposed to the water, said sheet member being bowed oppositely to that of the diaphragm.

2,404,786
MOISTURE CONTROL IN AN ELECTROMECHANICAL DEVICE
Lee G. Bostwick, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 15, 1942, Serial No. 458,421
1 Claim. (Cl. 181—0.5)



An underwater wave translating device comprising a hollow container, a wave translating unit including a diaphragm mounted in the wall of said container so that the outer side of said diaphragm engages the water, a submersible hollow chamber having an elastic wall pervious to water, hollow means having a wall impervious to water for interconnecting the interiors of said container and said chamber, said container, hollow means and chamber being filled with an inert gas, said chamber changing its volume in response to variations of hydrostatic pressure and thereby varying the gas pressure on the inner side of said diaphragm substantially to compensate for the variations of hydrostatic pressure on the outer side of said diaphragm, and desiccating means positioned interiorly of said container for adsorbing water vapor passing thereinto as a consequence of diffusion through said chamber wall.

2,404,787
HYDROXY-DI-(DIHYDRONORDICYCLOPENTADIENE)
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application March 14, 1944, Serial No. 526,484
5 Claims. (Cl. 260—617)

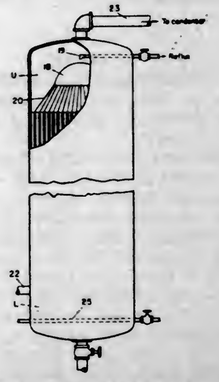
1. As a new compound, hydroxy-di-(dihydronordicyclopentadiene), a secondary alcohol, having the formula $C_{20}H_{25}OH$, and possessing two double bonds in the molecule, said alcohol being the product formed by condensation of two molecules of hydroxydihydronordicyclopentadiene at 180°–250° C. in the presence of a strongly alkaline catalyst.

2. A method for making hydroxy-di-(dihydronordicyclopentadiene), $C_{20}H_{25}OH$, which comprises heating at 180° to 250° C. hydroxydihydronordicyclopentadiene, $C_{10}H_{13}OH$, the acid-catalyzed, addition-rearrangement product of water and dicyclopentadiene, in the presence of a strongly alkaline catalyst.

2,404,788
POLYMERIZING OLEFINS
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 22, 1941, Serial No. 416,104
12 Claims. (Cl. 260—683.15)

1. A process of the character described, which comprises contacting an olefin with 0.2 to 25 mol per cent (based on the olefin) of boron fluoride as the catalyst for polymerizing the olefin, while promoting the catalytic activity of the boron fluoride with 0.05 to 5 mol per cent (based on the olefin) of an oxygen-containing compound of an element from the third series of the periodic classification selected from the group consisting of elements having atomic numbers of 13 and 14, the amount of the oxygen-containing promoter being less than the amount of the boron fluoride.

2,404,789
APPARATUS FOR FRACTIONAL DISTILLATION
Robert E. Burk, Cleveland Heights, and Einar Kropp, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
Application November 10, 1941, Serial No. 418,518
4 Claims. (Cl. 261—112)



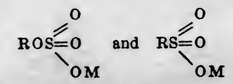
1. Contact apparatus arranged for upward gas flow and for drainage of liquid in film form, which comprises a unit having multiple unobstructed narrow ascending vapor passways with walls providing smooth continuous free drainage of liquid in film and formed of spirally wound radially spaced sheet material with attached continuous vertical spacing strips, such passways being open below to a space for input, and open above to a space for off-take.

2,404,790

WITHDRAWN

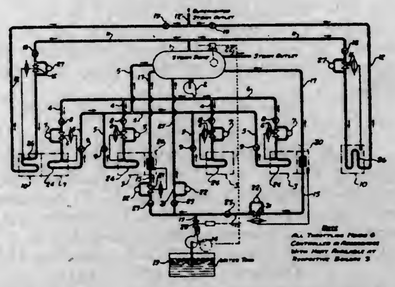
2,404,791
VINYL POLYMERS
Donald D. Coffman and Frank C. McGrew, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1942, Serial No. 427,946
4 Claims. (Cl. 260—88)

1. A process for obtaining a resinous material which consists in emulsifying a vinyl halide in an aqueous medium wherein the ratio of aqueous to non-aqueous phase ranges from 10:1 to 1:1 by weight and having a pH within the range of 10 to 12, said medium containing from 0.1% to 10%, based on the weight of the vinyl halide, of a dissolved salt of perdisulfuric acid and from 0.2% to 5%, based on the weight of the aqueous phase, of a dispersing agent from the group consisting of



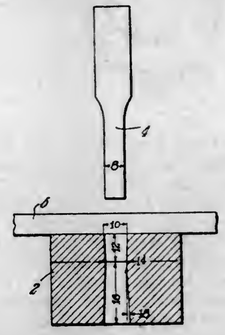
wherein R is an acyclic hydrocarbon of 12 to 18 carbon atoms and M is an alkali metal, and polymerizing the resulting emulsion at a temperature ranging from 0° C. to 80° C., while maintaining an inert, gaseous, oxygen-free atmosphere over said emulsion.

2,404,792
METHOD OF AND APPARATUS FOR UTILIZING WASTE HEAT
David Dalin, Sodertalje, Sweden
Application January 11, 1944, Serial No. 517,852
In Sweden December 3, 1942
8 Claims. (Cl. 122—7)



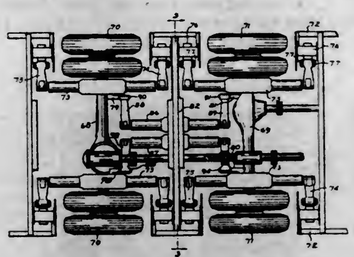
1. A method of utilizing waste heat available at a plurality of widely scattered heat sources, comprising: placing a steam boiler in heat transfer relation to each of such heat sources; positively circulating boiler water through all of said boilers from and back to a common steam dome; regulating the flow of the boiler water circulating through each boiler to maintain at least three times as much (by weight) water circulating through each boiler as the amount (by weight) of the steam generated thereat; withdrawing for use the steam accumulated in the common steam dome; and feeding water into the steam dome to compensate for the steam withdrawn and maintain a predetermined water level in the steam dome.

2,404,793
TOOL
Hubert E. Dickerman, Springfield, Mass.
Application December 27, 1944, Serial No. 569,956
3 Claims. (Cl. 164—124)



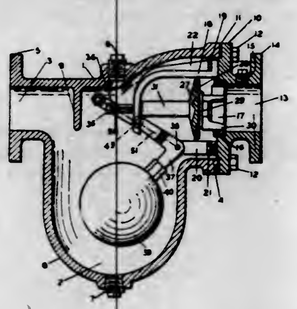
1. A punching construction comprising in combination, a punch and a die having a punch receiving hole therein, said hole having a restricted portion disposed downwardly from the entrance thereof, and the side walls of the hole diverging in opposite directions from said restricted portion, the diameter of the restricted portion of the hole being from 5 to 13% greater than the diameter of the punch.

2,404,794
VEHICLE SUSPENSION
William B. Fageol, Kent, Ohio, assignor to Twin Coach Company, Kent, Ohio, a corporation of Delaware
Application August 7, 1943, Serial No. 497,822
18 Claims. (Cl. 280—124)



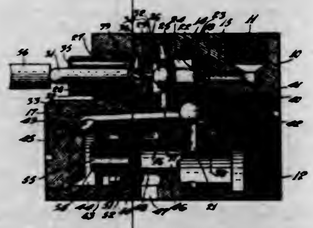
1. A spring suspension for dual axles of a multi-wheel vehicle comprising torsion spring members secured adjacent opposite ends of each axle and having crank arms shackled to the frame adjacent the ends of said arms and further equalizing torsion spring members extending transversely to the axles and pivoted to the vehicle frame between the axles and having crank arms at their ends shackled to the respective axles.

2,404,795
FLOAT CONTROL VALVE
Owen L. Garretson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 16, 1943, Serial No. 510,521
7 Claims. (Cl. 137—68)



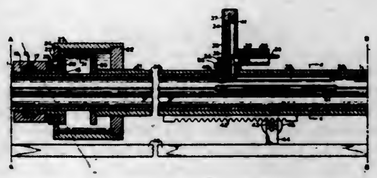
2. A liquid trap gas valve for trapping any liquids occurring in a gas line, comprising in combination a valve housing having a chamber, said chamber having a dependent liquid accumulating portion, an inlet connected to the gas supplying portion of the gas line and to the chamber, an outlet connecting the chamber to the gas receiving portion of the gas line, a valve seat mounted in said outlet and extending into the chamber, a valve head in the chamber adapted to seat on said seat in closed position and close the outlet and to move to open position and open the outlet, a float in said liquid accumulating portion connected to said valve head by a toggle linkage, the float being normally actuated by gravity in the absence of sufficient liquid in said liquid accumulating portion to substantially straighten out the toggle to substantially dead center position and to move said valve to said open position, the float being floated by any accumulating liquids in said liquid accumulating portion to close said valve.

2,404,796
FLUID PRESSURE CONTROL DEVICE
Harry C. Grant, Jr., New York, N. Y., and William A. V. Thomsen, Glen Ridge, N. J., assignors to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application October 1, 1942, Serial No. 460,350
1 Claim. (Cl. 121—46.5)



In combination, a valve housing having a plurality of bore portions including, in one position of the housing, a top series of communicating portions including in order from right to left an inlet, a valve chamber and an operating compartment opening from the housing, a series of communicating portions between the top and bottom of the housing including in order from right to left a spring receiving pocket, a check valve chamber and a dead end passage, a bottom series of communicating portions including in order from right to left an outlet, a piston valve cylinder and a cylinder entrance, ports joining said dead end passage to said valve chamber, to said piston valve cylinder and through said check valve chamber to said outlet, respectively, and an exhaust duct from said cylinder for residual fluid in said outlet; means in said compartment including a valve seat and a bushing having operating and piston vent passages; movable valve means in said valve chamber responsive to fluid pressure from said inlet for opening said inlet and seating against said valve seat; an operating member in said operating passage for said valve means for unseating the latter from said valve seat and closing said inlet passage; a check valve in said check valve chamber biased by a spring in said pocket to normally maintain the check valve chamber closed to said dead end passage; closure means for said pocket backing said spring; a piston valve unit in said cylinder; and closure means for said entrance.

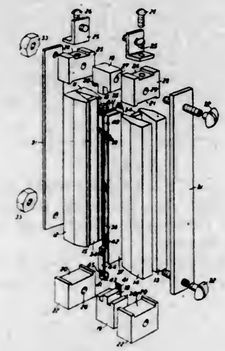
2,404,797
CONCENTRIC LINE MEASURING DEVICE
William W. Hansen, Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application December 12, 1941, Serial No. 422,716
14 Claims. (Cl. 171—95)



6. Apparatus for exploring the voltage along a concentric line having an axial opening in the outer conductor thereof, comprising a probe, a sleeve enclosing said outer conductor, means for mounting said probe in said sleeve to project through said opening to be capacitively coupled to the inner conductor of said line, means for moving said sleeve relative to said line whereby said probe explores different sections of said line, means for indicating the voltage picked up by said probe, and means connected to the inner conductor of said line for compensating for the change in impedance of said line due to said opening.

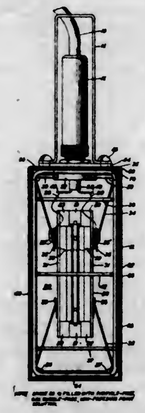
2,404,798
ELECTROMECHANICAL DEVICE
William R. Harry, New York, N. Y., and Frank F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 15, 1941, Serial No. 415,032
2 Claims. (Cl. 177—386)

1. A device for detecting signal pressure variations in a liquid medium, said device comprising a coil, means to support said coil to expose the coil directly to the liquid medium, means providing a magnetic field having an air-gap, said supporting means disposing said coil in said air-gap for translational movement in said magnetic field in response to pressure gradient set up between different portions of said coil by the signal pressure variations, said air-gap allowing a mechani-



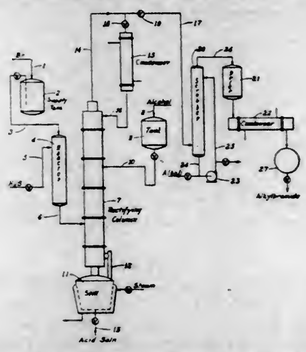
cal clearance between the coil and magnetic polepieces sufficient to allow the liquid medium to flow therebetween but small enough to present high impedance to the signal pressure variations.

2,404,799
SUBMARINE SIGNAL DEVICE
William R. Harry, New York, N. Y., and Frank F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1942, Serial No. 449,604
4 Claims. (Cl. 177—386)



1. A receiver of subaqueous sound waves comprising a pressure-gradient responsive electrical pick-up unit, a supporting box-like frame composed of upright and cross frame members rigidly secured together, means for resiliently suspending said unit within said frame in a central position so as to be spaced away from said frame on all sides, a fluid-tight container adapted to enclose said frame and unit, said frame having a sliding fit in said container, and a liquid filling all the remaining space in said container, the walls of said container being of yieldable construction and permitting free transfer of compressional waves from the water in which the receiver is immersed to the fluid within the container.

2,404,800
PROCESS FOR THE PRODUCTION OF ALKYL BROMIDES
Wilhelm Hirschkind, Berkeley, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application January 31, 1944, Serial No. 520,487
4 Claims. (Cl. 260—657)



1. A process for making an alkyl bromide which comprises causing a reaction between hydrogen sulphide, bromine and a monohydric aliphatic alcohol selected from the group consisting of methanol and ethanol in approximately the molecular proportions given by the equation;

$$H_2S+4Br_2+8ROH \rightarrow 8RBr+H_2SO_4+4H_2O$$

2,404,801
REINFORCING EXPANDER TUBE CONSTRUCTION
Charles Hollerith, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application June 17, 1943, Serial No. 491,174
6 Claims. (Cl. 137—156)

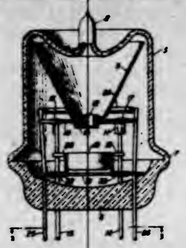


1. In combination with an expander tube of generally cylindrical form for a hydraulic brake or the like, a generally cylindrical, transversely corrugated, peripheral, spring metal, endless band about the outer periphery only of the tube and in contact therewith.

2,404,802
ELECTRON DISCHARGE DEVICE
Joseph P. Laico and Victor L. Ronci, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 25, 1940, Serial No. 337,186
16 Claims. (Cl. 250—165)

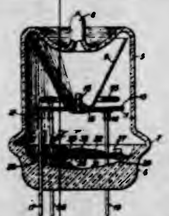
1. An electron discharge device comprising an evacuated container, a cathode at one end of said

container, an anode in operative relation to said cathode, a support for cathode sensitizing material at the other end of said container, a heat-



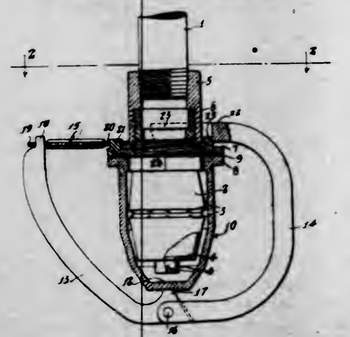
resisting baffle supported intermediate said photocathode and said support, and a second heat-resisting baffle intermediate the said support and the adjacent end of the evacuated container.

2,404,803
SPACE DISCHARGE DEVICE
Alfred E. Stafford, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 25, 1941, Serial No. 375,879
12 Claims. (Cl. 250—165)



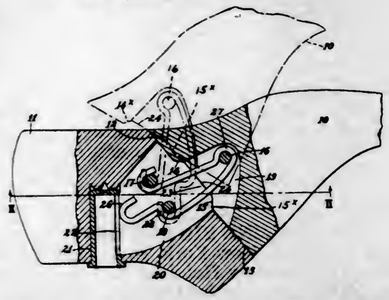
1. A space discharge device comprising a container, electrodes supported within said container, and a holder for vaporizable material supported within said container, said holder comprising a substantially flat imperforate metallic disc and an elastic flexed gauze disc rigidly secured to said first disc at points around the periphery of said discs and pressing said vaporizable material firmly against said flat disc.

2,404,804
FIRE EXTINGUISHING DEVICE
Floyd J. Lee, La Habra, Calif., assignor to John C. Burnam, Whittier, Calif.
Application October 16, 1944, Serial No. 558,846
4 Claims. (Cl. 169—40)



1. An apparatus for exteriorly controlling the movement of fire extinguishing fluid through a spray head of a fire extinguishing installation, said apparatus including a ring member to be fixed to said installation, a dome-shaped closure member for enclosing said spray head and forming a fluid-tight seal with said ring member, and clamping means for releasably clamping said closure member against said ring-shaped member, said clamping means including two pivoted levers, one of which is pressed against said closure member near the pivot point of said levers, one of said levers contacting said ring-shaped member, and a fusible link interconnecting the other lever with said ring-shaped member.

2,404,805
TWO-PART COLLAPSIBLE LAST
Victor J. Levaggi, Jr., Beverly, Mass., assignor to United Last Company, Portland, Maine, a corporation of Maine
Application July 10, 1945, Serial No. 604,119
14 Claims. (Cl. 12—136)

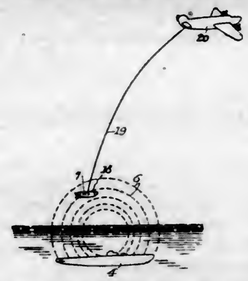


1. A two-part last comprising a forepart and a heel part having abutting oblique joint surfaces, the abutting portion of the heel part including a truncate wedge-shaped ridge having sloping shoulders and extending widthwise, the abutting portion of the forepart including a wedge-shaped valley extending widthwise to receive said ridge and thereby register the parts in last-forming relation, each of said parts also having a kerf extending heightwise and intersecting its wedge-shaped formation, a pivot pin bridging the kerf in one of said parts, a latching pin bridging the kerf in the other one of said parts, and a spring-loaded link arranged in said kerfs, the link being pivotally mounted on said pivot pin and having a latching shoulder arranged to hook said latching pin when said ridge is nested in said valley.

2,404,806
SUBMARINE DETECTOR
Henry A. D. Lindsey, United States Army, Hickam Field, Honolulu, Territory of Hawaii
Original application March 19, 1942, Serial No. 435,263, now Patent No. 2,379,447, dated July 3, 1945. Divided and this application March 29, 1943, Serial No. 480,955
5 Claims. (Cl. 177—385)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

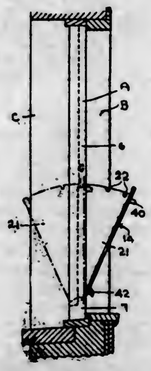
1. In a submarine detecting apparatus adapted to cooperate with a variable magnetic field created immediately above the surface of a body of water by the electrical equipment of a submarine submerged beneath such surface, the combination of a towing plane, a miniature scanning plane attached to the towing plane and adapted to be drawn through said magnetic field in scanning relation with respect to the surface of said body of water, a pickup unit in connection with said scanning plane, said unit including a magnetic induction device and an amplifying system provided with input and output circuits, said

induction device comprising two pairs of relatively stationary coils, the coils of each pair thereof being series connected and adapted to be linked to the same magnetic circuit, the respective pairs of coils being arranged in planes normal to each other and connected in electrical opposition to the input of said amplifying system whereby no current flow occurs in the coils of said device during its passage through a uniform magnetic field, but when said device is drawn through a variable magnetic field, the cur-



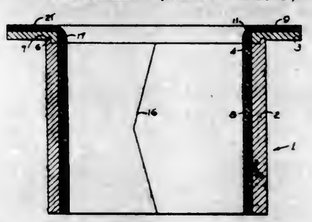
rent induced in its coils by the variations of the magnetic field and the spaced position therein of said coils, will produce a current flow in the input and output circuits of said amplifying system, and an indicator carried by said towing plane and in electrical relation with the output circuit of said amplifying system, said indicator being responsive to the current flow in said output circuit to indicate the presence of said submarine under conditions precluding the transmission thereto of detectable impulses.

2,404,807
VENTILATED WINDOW
Otto Kubatzky, St. Louis, Mo., assignor of one-fourth to Frank W. Watkins, Cleveland, Ohio
Application September 24, 1943, Serial No. 503,699
6 Claims. (Cl. 98—88)



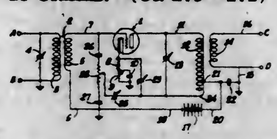
1. In a window construction, a sash comprising a frame having top and bottom rails, side rails and a parting rail, said parting rail being provided with a sealing strip of yieldable material extending outwardly of the inner vertical face thereof, a glazed portion above the parting rail, a trough on the bottom rail, a strip of yieldable material in such trough, a deflecting shield rockable upon said strip in said trough with its upper portion closing against said parting rail, guides for the ends of the deflecting shield and rockable therewith, a guide channel on each side rail of the sash frame above said parting rail and with which said guides align when the deflecting shield is closed against the sealing strip, and means for retaining the shield in a raised position in said guide channels.

2,404,808
METHOD OF MAKING BEARINGS
Francis J. Lowey, Olmsted Falls, Ohio, assignor to The S. K. Wellman Company, Cleveland, Ohio, a corporation of Ohio
Application May 31, 1943, Serial No. 489,132
2 Claims. (Cl. 29—149.5)



1. The method of lining annular, cylindrical solid metal backing members having a cylindrical inner surface and a radial surface in contiguous relation comprising the steps of pressing metal powder to form an annular cylindrical facing of outside diameter slightly larger than the diameter of said cylindrical surface; forcing said annular facing into said backing; pressing metal powder to form an annular, radial facing of inside diameter substantially equal to the inside diameter of said cylindrical facing; placing said radial facing on the radial surface of the backing member and in contact with the cylindrical facing; and heating said assembled facings and backing to sinter and unite the facings and bond them to the backing.

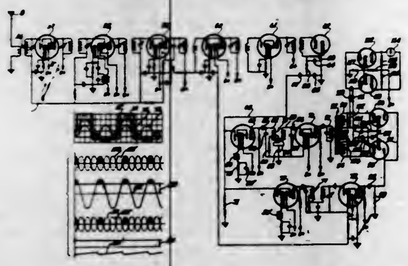
2,404,809
COMPENSATING CIRCUIT
William J. O'Brien, Los Angeles, Calif., assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application August 5, 1941, Serial No. 405,496
13 Claims. (Cl. 179—171)



1. In an alternating voltage amplifier, the combination of: a thermionic vacuum tube including a grid, a plate and a cathode; means for applying a variable grid bias voltage to said grid; an in-put circuit including a coupling means connected to said grid and said cathode; an out-put circuit including a coupling means connected to said plate and said cathode; compensating means to neutralize the effect of changes in said in-put circuit capacity coupling between said grid and the space charge of said thermionic vacuum tube and resulting from variations in said grid bias voltage, said compensating means comprising a resistance in series with said cathode, at least a part of said resistance being common to both in-put and out-put circuits; means including a condenser connected from a point in said in-put circuit to a point in said out-put circuit for preventing changes in the effective capacity of said in-put circuit caused by variations in the ratio of in-put to out-put voltages; and means includ-

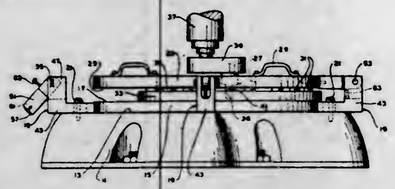
ing a condenser connected from said out-put circuit to said resistance for preventing changes in the effective capacity of said out-put circuit caused by the combined effects of said resistance and plate to cathode capacity.

2,404,810
RECEIVING APPARATUS FOR RADIO BEACON SYSTEMS
William J. O'Brien, Los Angeles, Calif., assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application December 23, 1941, Serial No. 424,159
4 Claims. (Cl. 172—245)



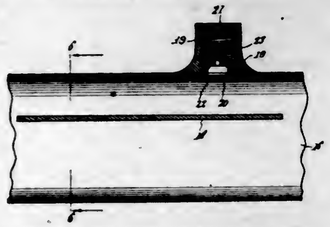
1. The method of visually indicating the predominance in intensity of one of two radio signals of like frequency which are produced alternately in a recurring time cycle and for unequal periods in each cycle which consists in receiving and rectifying said signals to produce a direct potential which pulsates in accordance with the alternate production of said signals, separating the direct potential component from the alternating potential component of said pulsating potential, ascertaining the polarity of the maximum potential peak of said alternating potential component by separating from said alternating potential component the fundamental and second harmonic sine wave components, and determining the multiple phase relation between said sine wave components.

2,404,811
LAPPING MACHINE
Frank Orio, Long Branch, N. J.
Application November 4, 1944, Serial No. 562,009
2 Claims. (Cl. 51—161)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



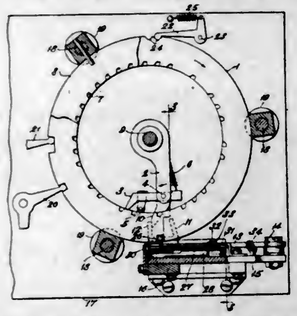
2. An aligning bracket member comprising a bracket, said bracket including substantially vertically and horizontally disposed arms, means on said horizontally disposed arm to allow the bracket to be translated horizontally to a plurality of positions and rotated about vertical axes, a spacer finger pivotably secured to the vertically disposed arm, means to adjustably support said finger in a substantially horizontal operating position, said finger being pivotable from its said operating position upwardly through in excess of ninety degrees to a nonoperating position.

2,404,812
DEVICE FOR ATOMIZING CERTAIN CHEMICALS AND OILS FOR THE PRODUCTION OF DRY OIL STEAM FOR SIGNALING
John G. Rankin, Tulare, Calif.
Application April 19, 1941, Serial No. 389,476
12 Claims. (Cl. 40—127)



1. In a device of the character described, an exhaust pipe, a plate in said exhaust pipe heated by the exhaust products passing therethrough, a jet disposed through said pipe angularly to said plate, and means for supplying under pressure to said jet a smoke-forming material.

2,404,813
MISSELECTION INDICATOR
Leonhard F. Reinhold, Staten Island, N. Y., and James A. Spencer, Teaneck, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application October 7, 1944, Serial No. 557,620
9 Claims. (Cl. 178—34)

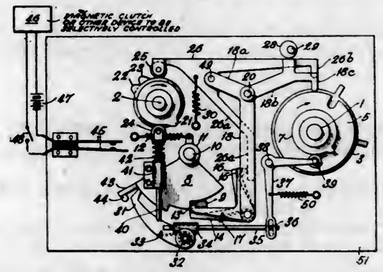


1. In an error detector which responds to the reception of mutilated code signals, a plurality of wedge members each separately pivoted at one end and being tapered inwardly from their free ends, a plurality of spacer rods each having a portion slideable against the tapered edges of said wedge members, means responsive to the reception of different code elements of a signal for independently actuating said spacer rods whereby the disposition of the wedge members is variably expanded and contracted, and means operable under joint control of said wedge members for producing an error-detecting response whenever the number of actuated spacer rods is more or less than is required for unmutilated code signal reception.

2,404,814
SELECTOR
Leonhard F. Reinhold, Staten Island, N. Y., and James A. Spencer, Teaneck, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 24, 1945, Serial No. 574,288
10 Claims. (Cl. 178—69.6)

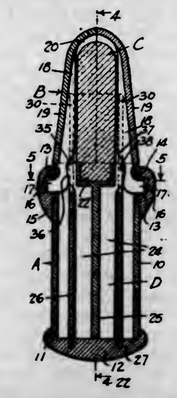
1. A selector of the type which is controlled by a telegraph receiver responsive to code signals,

said selector comprising a plurality of selecting discs each carrying a projecting digit and each firmly mounted on a shaft the orientation of which is selectively obtained by said telegraph receiver, an operating cam shaft having a plurality of cams thereon, each cyclic revolution of which is effected subsequent to the reception of each selecting code signal, said orientable shaft being arrested in a signal-controlled position during a part of said cyclic revolution, a ratchet and pawl combination corresponding to each of said selecting discs, the several ratchets being rotatable as a unit, an operating lever for individually



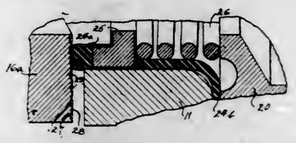
supporting each pawl, the several levers having a common pivot, a cam follower lever linked to each said pawl operating lever, means operable by an appropriate one of said cams through its cam follower lever when the associated selecting disc is oriented into a selecting position for causing that cam follower lever to be pivoted at the apex of the digit on that disc, whereby the associated pawl is actuated for stepwise advancement of its ratchet, and means responsive to a condition of orienting a selecting disc into a nonselecting position for causing the associated ratchet to be released by its pawl.

2,404,815
SANITARY APPLICATOR
Frank Satz and Mel Berns, Los Angeles, Calif.; said Satz assignor of one-half of his right to Samuel Sontag, Los Angeles, Calif.
Application June 13, 1944, Serial No. 540,170
9 Claims. (Cl. 206—56)



5. A device of the class described comprising: an elongated case; a guide element supported in the case in spaced relation to the sides thereof; a plurality of cover sections rockably mounted on the case between said sides of the case and the guide element, for movement laterally of the case to open and close an end thereof; the cover sections and guide element having co-acting means to maintain said sections in alined relationship; an article support reciprocably mounted in the guide element to occupy retracted and advanced positions; means on said cover sections and support co-acting to open or close the cover sections according as the support is advanced or retracted; and means connected to the support by which the latter can be actuated.

2,404,816
SEAL SURFACE
Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 8, 1945, Serial No. 571,834
6 Claims. (Cl. 251—113)



3. In a seal assembly, relatively movable parts in sealing engagement, one of said parts being deformable, the other of said parts being rigid and having a minutely pitted surface in sealing contact with said deformable part.

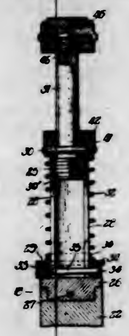
2,404,817
PRODUCTION OF COPOLYMERS OF MONOETHENOID COMPOUNDS
Daniel E. Strain, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 19, 1941, Serial No. 407,416
7 Claims. (Cl. 260—84)

3. A polymerization process which comprises emulsifying a mixture of asymmetrical dichlorethylene with acrylonitrile in an aqueous solution at a pH ranging from about 2–4 and containing a dispersing agent selected from the group consisting of alkali metal salts of long chain sulfates and sulfonates and an oxygen-yielding polymerization catalyst, employing in said mixture an amount of acrylonitrile, by weight, ranging from 5–50% of the total polymerizable materials present and an aqueous-non-aqueous phase ratio in said solution of 4:1 to 1:1 and maintaining the resulting emulsion at a temperature between about 30–60° C. until polymerization becomes effected.

2,404,818
VALVE ACTION FOR CORNETS, TRUMPETS, AND LIKE INSTRUMENTS
Oscar E. Swinehart, Elkhart, Ind., assignor to The Martin Band Instrument Company, Elkhart, Ind., a corporation of Indiana
Application August 31, 1944, Serial No. 552,106
4 Claims. (Cl. 84—292)

1. In a valve action of the class described, in combination, a valve casing, a piston valve operable in said casing, a tubular spring barrel on the outer end of said valve and provided with a pair of diametrically opposite and longitudinally elongated guide slots, an abutment member comprising a collar encircling the inner end of said spring barrel and held against tilting by cooperation with said barrel, an abutment on the

outer end of the spring barrel, a relatively large diameter coiled spring disposed outside said spring barrel with its convolutions encircling said barrel and abutting at opposite ends said abutment member and said abutment, a pair of diametrically opposite lugs carried by the inner side of said abutment member with one lug only ex-



tending radially beyond the outer periphery of the piston for engagement in a single guideway in the valve casing, and a diametrical pin passing through the guide slots in the spring barrel and engaged at opposite ends in said lugs to hold the abutment member against turning on the spring barrel.

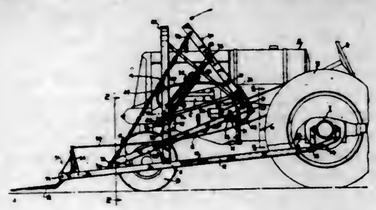
2,404,819
TUNNEL LINER SEGMENT
Thomas L. White, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a corporation of Ohio
Application July 21, 1945, Serial No. 606,359
6 Claims. (Cl. 61—45)



6. A liner segment comprising a skin plate curved longitudinally except adjacent its ends, the end portions of the plate being tangent to the intermediate portion, and inwardly extending flanges at the ends of the plate.

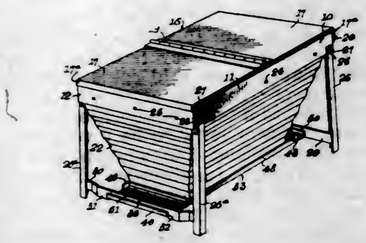
2,404,820
LOADER
Paul P. Wuertz, Melrose, and Elmer J. Wuertz, Paynesville, Minn., assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware
Application June 21, 1944, Serial No. 541,322
18 Claims. (Cl. 214—141)

1. In a tractor mounted loader, a longitudinally extending boom disposed at each side of the tractor, each boom comprising two telescopic sections the rear one of which is pivoted at its rear end on the tractor and supporting the forward section for up and down movements at its forward end, a load carrier supported by the forward ends of the boom, power lift means mounted on the tractor and connected to forward sections of the booms to raise and lower said carrier, said power lift means including a member movable forwardly in response to raising movements of the lift means and connected to the



forward section of each boom to extend the same in a forward direction as the carrier is raised.

2,404,821
COLLAPSIBLE CONTACT PRINTER
Wilbur Ulric Zeller, United States Army, New York, N. Y.
Application January 26, 1945, Serial No. 574,669
4 Claims. (Cl. 95—73)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

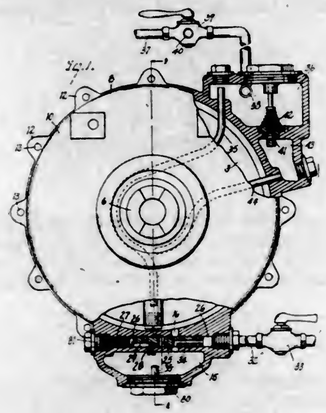


1. A collapsible contact printer, comprising a frame, a copying plate mounted adjacent the upper end of said frame, leg members pivotally connected to said frame adjacent the ends thereof, said leg members being adapted to be folded upon said frame, leg braces secured to adjacent pairs of leg members at the ends of said frame, a flexible bellows, the upper edges of said bellows being attached to the lower end of said frame, a light panel, illuminating means mounted on said light panel, and a light panel support having a pair of spaced flange members adjacent each end thereof and adapted to engage said leg braces, said light panel and said light panel support being attached to the lower edges of and supported by said bellows.

2,404,822
FLUID ACTUATED CLUTCH
Adrian P. Adney, Battle Creek, Mich., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich., a corporation of Michigan
Application August 16, 1943, Serial No. 498,785
31 Claims. (Cl. 192—85)

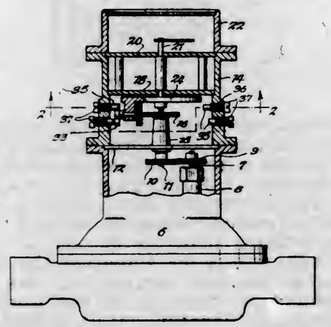
1. In a clutch, the combination of a casing having a sump associated therewith, a chambered driving member adapted to receive a fluent material and provided with discharge ports discharging into said casing, normally open valves coacting with said ports, said valves being seated by rotation of said driving member, a driven member disposed within said driving member, a plurality of clutch elements radially movable relative to both members and rotatably connected with one member and drivingly engageable with the other, a reservoir having a suction connection to said

sump and a valved connection to a source of vacuum, and a discharge connection for said



reservoir for delivering fluent material into said driving member chamber.

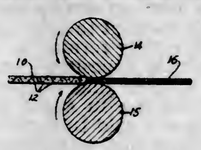
2,404,823
ACCURACY REGULATING MEANS FOR FLUID METERS
Robert S. Bassett, Buffalo, N. Y.
Application August 2, 1944, Serial No. 547,771
14 Claims. (Cl. 73—233)



1. An accuracy regulator for a liquid meter having a measuring mechanism and a registering mechanism including a driving shaft therefor, said regulator including gearing connected with said measuring mechanism and a transmission carrier for said gearing and secured to said shaft, and stationary means on said meter for actuating said gearing to produce relative movement of said registering mechanism relatively to said measuring mechanism with a complete cycle of said relative movement for each revolution of said shaft.

2,404,824
ELECTROLYTIC CONDENSER AND ELECTRODE THEREFOR
James Marvin Booe, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application February 10, 1942, Serial No. 430,173
7 Claims. (Cl. 175—315)

1. An electrolytic condenser comprising cooperating electrodes and an electrolyte in contact therewith, at least one of said electrodes com-



prising a compressed layer of finely divided cohering particles of film-forming metal.

2,404,825
WELL TESTER
Luther E. Brown, Greggton, and Ollin W. Williams, Mount Enterprise, Tex.
Application August 30, 1941. Serial No. 408,916
5 Claims. (Cl. 166—1)



1. A well tester comprising a tubular string of pipe adapted to be lowered into a well and having separate openings through the wall thereof, sleeve valves normally closing said openings, an expansible packer around the string enclosing one of said openings and having an inflow channel extending through the wall of the packer and opening outwardly of the packer at one end thereof and which continues on to and communicates with the other opening at its other end, a sample receiver adapted to be lowered through the string and having a sample receiving chamber therein and also having means to seat in the valves and close the central bores thereof, in succession to entrap liquid therebetween, and movable, to move said valves to open position to permit the liquid entrapped between the valve moving means to pass into the packer to expand the same against the walls of the well to form a sealed off area of the wall stratum and to permit the inflow of a fluid sample through said channel and means for communicating said channel with the chamber to allow the entrance of the sample into the chamber.

2,404,826
HEAT TRANSFER APPARATUS AND METHOD OF MANUFACTURE
Perry R. Cassidy, Darien, Conn., assignor to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application June 3, 1942, Serial No. 445,588
11 Claims. (Cl. 122—235)

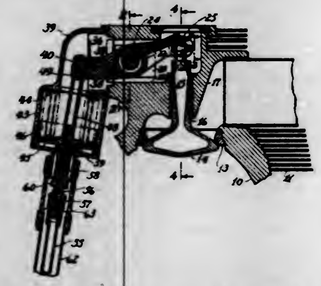
2. A furnace wall unit comprising a fluid-conducting metal tube having means integral therewith forming extended heating surface for ex-

posure toward said furnace, said means comprising extensions arranged oppositely on said tube and providing heat absorbing surface substantially in a plane tangent to said tube, each extension being compositely formed to include a sheet metal jacket having oppositely disposed uniformly thin walls in diverging relation toward said tube and terminating in edges spaced circumferentially adjacent said tube through an arc of at least 30°, one of said walls having an exposed surface portion in said plane and having its adjoining inner edge portion bent to extend ap-



proximately radially of said tube to form a welding recess below the plane of said exposed jacket surface, filler material within said jacket having a heat transfer capacity greater than the material of said jacket, said filler material having a circumferential dimension of engagement with said tube several times the thickness of said jacket walls and an average circumferential dimension throughout its radial extent also greater than said wall thickness, and means for uniting said edge portions with said tube including weld metal fused within said recess to approximately the tangential position of said exposed heating surface.

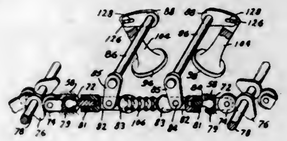
2,404,827
VALVE GEAR
Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application November 12, 1941, Serial No. 418,649
14 Claims. (Cl. 123—90)



13. In combination, a cylinder head having a cylindrical bore defining a rocker arm housing, a pair of diametrically opposed cylindrical segments within said bore and having a space therebetween, a shaft-like member extending across said space with its axis transverse to the axis of said bore, and a valve operating rocker member pivotally mounted about said shaft-like member and disposed in the space between said segments.

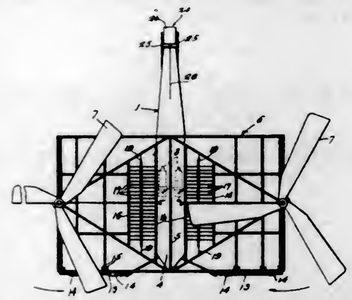
2,404,828
VALVE MECHANISM
Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application August 25, 1942, Serial No. 456,295
8 Claims. (Cl. 123—90)

8. In an engine having a plurality of radially-disposed cylinder banks forming substantially V-shaped inter-cylinder bank spaces and providing a plurality of rows of radially-disposed cylinders, a pair of valves for each cylinder, a cam shaft disposed in each inter-cylinder bank space, a plurality of pairs of substantially oppositely extending push rods adapted to be operated by said cam shafts, each pair of push rods being opera-



tively connected to one valve of each cylinder of a pair of adjacent cylinders in a cylinder row, and a valve spring for each cylinder for urging both cylinder valves in a closing direction.

2,404,829
HELICOPTER
Clarence E. Darrow, Miami, Fla.
Application September 3, 1943, Serial No. 501,121
2 Claims. (Cl. 244—17)

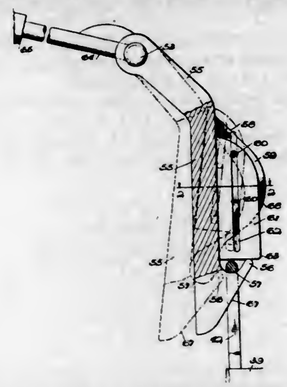


1. A helicopter comprising a fuselage including a forward part provided with an anticlinal roof portion having a ridge extending longitudinally of said fuselage, a frame structure mounted on and extending laterally from opposite sides of the fuselage, rotors mounted on and disposed above said frame structure at opposite sides of the fuselage, means for actuating the rotors, a panel rising from and parallel with the ridge of the anticlinal roof portion of the fuselage between the rotors, longitudinal air tunnels in the fuselage, said air tunnels including upturned intakes opening at their upper ends at opposite sides of the anticlinal roof portion of the fuselage and below the inner portions of the rotors for receiving the air blasts therefrom, said tunnels opening through the rear end of the fuselage, and control surfaces mounted on said rear end of the fuselage for receiving the air from the tunnels.

2,404,830
AUTOMATIC HOOK
George R. Dempster, Knoxville, Tenn.
Original application April 26, 1943, Serial No. 484,636, now Patent No. 2,369,722, dated February 20, 1945. Divided and this application November 7, 1944, Serial No. 562,311
5 Claims. (Cl. 294—83)

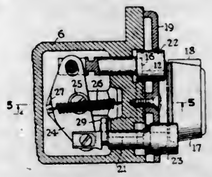
1. An automatic hook including a pivoted body member having a projection thereon carrying a counterweight, said body member being shaped to provide a dwell and having cam surfaces operable by an element to be engaged for deflecting said body member out of the path of said element

as said element moves into and out of operative relationship to said hook, and a rectilinearly mov-



able shuttle plate for masking the entrance to said dwell.

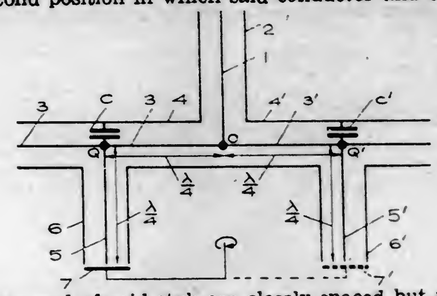
2,404,831
ADJUSTING DEVICE FOR CONTROL VALVES
James J. Durrett, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application July 11, 1945, Serial No. 604,319
2 Claims. (Cl. 188—71)



1. Setting and locking means for adjusting devices comprising in combination a manually rotatable part; an adjusting member controlled thereby; a member having a circular beveled locking surface, said member being connected to turn with said manually rotatable part; a plunger guided in a path approximately parallel with the axis about which rotation of said member occurs, said plunger having a beveled braking surface adapted to enter into wedging engagement with said beveled locking surface when forced toward the same; and a toggle spring mechanism connected with said plunger and shiftable to cause the spring to reverse its direction of action and thus to urge the plunger toward or away from such engagement.

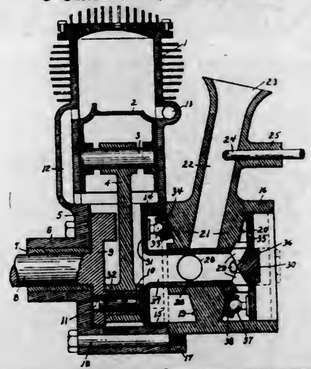
2,404,832
SWITCH FOR HIGH-FREQUENCY ELECTRICAL OSCILLATIONS
Dennis Clark Espley, North Wembley, England, assignor to The General Electric Company Limited, London, England
Application June 7, 1941, Serial No. 397,017
In Great Britain June 20, 1940
20 Claims. (Cl. 178—44)

20. A switch for high-frequency oscillations of frequency f comprising a stub including a concentric uniform line of length $q\lambda/4$ where q is an integer, the members of said stub being adapted to be connected at one end of the stub to another uniform line which the switch is to control, the second end of said stub being open, a conductor, and means to cause relative movement of said conductor and the open end of said stub between a first position in which said conductor and the open end of said stub are remotely spaced and a second position in which said conductor and the



open end of said stub are closely spaced but not touching.

2,404,833
TWO-CYCLE INTERNAL-COMBUSTION ENGINE
Henry Forster, Broadview, Ill.
Application March 15, 1945, Serial No. 582,855
9 Claims. (Cl. 123—73)

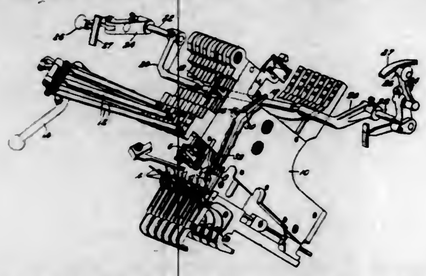


4. In a two-cycle crankcase-compression engine having a cylinder, a crankcase, a piston, a crank shaft and a piston rod, said crankcase having a valve-controlled fuel inlet, the improvement which includes: a valve-compressor cylinder, said valve-compressor cylinder having a V-shaped partition with a valve-sleeve bearing and dividing said valve-compressor cylinder into two chambers, one of which chambers communicates directly with the interior of the crankcase and the other chamber is remote from the crankcase; a combined valve and compressor-piston in said valve-compressor cylinder and including two end piston-discs connected by a sleeve one end of which communicates constantly with the crankcase and the other end of which communicates directly with the space between the piston disc that is in the remote chamber and said V-shaped partition; a fuel duct through said partition to said sleeve; said sleeve having a port for communication with said fuel duct at times; and means to rotate said combined valve and compressor-piston on its axis and reciprocate it along its axis to cause said port to register with said duct and to super-charge the crankcase with fuel at times.

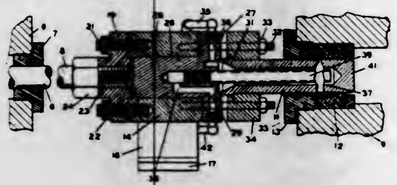
2,404,834
SHOE UPPER LACING MACHINE
Joseph Fossa, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 27, 1943, Serial No. 484,689
4 Claims. (Cl. 12—69.5)

1. In a machine for lacing eyeletted shoe uppers having curved or irregular rows of eyelets,

the combination with a series of lacing devices arranged to pass a series of individual lacings through the aligned eyelets of a folded shoe upper, of quickly adjustable means for producing slack in each lacing in an amount differing non-uniformly between successive lacings of the series.



2,404,835
CROSSHEAD
Robert R. Freund, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 22, 1945, Serial No. 574,015
10 Claims. (Cl. 103—1)

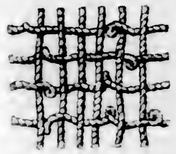


1. In a duplex plunger pump having a plurality of cylinders; a crosshead assembly comprising a first crosshead, a second crosshead, and side members securing said crossheads together; a plunger operated by each said crosshead in cooperative relationship with one of said cylinders; and means for reciprocating said crosshead assembly in pumping; the improvement in which each said crosshead has a hole of a diameter larger than any cross section of the plunger operated thereby, a plate disposed in a position to cover said hole, and disengageable means securing said plate to said crosshead in said position and securing the plunger operated by said crosshead against said plate and to said crosshead, whereby said disengageable means may be disengaged to allow removal of said plate and withdrawal of said plunger through said hole thereby avoiding disassembly of said crosshead assembly when removing a plunger.

2,404,836
MODIFIED ALKYD TYPE RESINS
Howard L. Gerhart and Leon M. Adams, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
No Drawing. Application January 15, 1943, Serial No. 472,476
7 Claims. (Cl. 260—42)

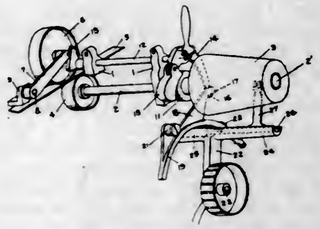
1. A new resin product consisting of the copolymer of (A) compound of the class consisting of cyclopentadiene and dicyclopentadiene and (B) an alkyd resin consisting of the unsaturated glyceride oil acid modified polyester of a polyhydric alcohol and a dicarboxylic acid said product being soluble in petroleum naphtha.

2,404,837
METHOD OF MAKING COTTON FABRICS WITH DIFFERENTIAL ELASTIC PROPERTIES
Charles F. Goldthwait, New Orleans, La., assignor to the United States of America, as represented by the Secretary of Agriculture
Application November 5, 1943, Serial No. 509,133
6 Claims. (Cl. 8—117)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



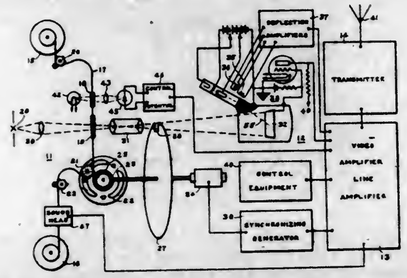
1. A method comprising treating an open weave cotton fabric with an agent which swells the cellulose, thereby tending to shrink the fabric, removing the cellulose-swelling agent, and drying the fabric, the while maintaining it under tension in one direction and substantially under no tension in the direction normal thereto, whereby the individual yarns of the fabric running in the non-tensioned direction are crimped and the yarns running in the tensioned direction are substantially non-crimped, thus imparting elasticity to the fabric in the non-tensioned direction and substantially no elasticity in the other direction.

2,404,838
WINDING MACHINE CONTROL
John Lee Hall, Narrows, and Angelo M. Santolla, Pearisburg, Va., assignors to Celanese Corporation of America, a corporation of Delaware
Application January 7, 1943, Serial No. 471,536
2 Claims. (Cl. 242—39)



1. In a yarn package winding machine comprising a drive for rotating the package, braking means adapted to stop the rotation of said package, a traverse bar having a square end and yarn guide for traversing the yarn on said package, and means including a traverse frame dog segment for holding said braking means in inoperative position, a gauge mounted on said traverse frame dog segment for cooperating with said traverse bar to throw said braking into operative position to halt the winding operation when said package has reached a predetermined size, said gauge comprising a member having a beveled edge cut away at one end thereof to form a striking face for coming into contact with one corner at the end of said traverse bar, the striking face being in a single plane sloping from 12½ degrees vertical and 30 degrees horizontal to 17½ degrees vertical and 25 degrees horizontal and being at an angle to the plane of said beveled edge.

2,404,839
SECRECY COMMUNICATION SYSTEM
John Hays Hammond, Jr., Gloucester, Mass., assignor to Radio Corporation of America
Application August 22, 1941, Serial No. 407,891
4 Claims. (Cl. 178—6.7)

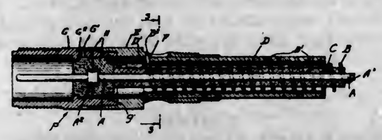


1. The method of secret communication which comprises inserting a message on a single frame of a standard motion picture film, scanning said film, transmitting the images thereof by television, receiving said images at a suitable receiving point, impressing the same photographically on a sensitized motion picture film at said point, and developing said film to reproduce said message together with the transmitted picture in the frame sequence corresponding to that of the film at the transmitter.

2,404,840
RESINS MADE WITH LIGNIN AND HEAT REACTIVE CONDENSATION PRODUCTS AND METHODS FOR PREPARING THE SAME
Mortimer T. Harvey, South Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey
No Drawing. Application May 6, 1943, Serial No. 485,884
2 Claims. (Cl. 260—17.5)

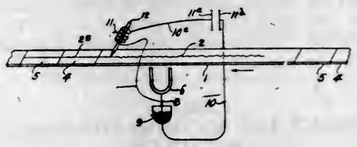
2. A fusible thermosetting resin obtained by heating a mixture comprising lignin and a thermosetting heat reactive acid condensation product of formaldehyde and a material selected from the group consisting of furfuryl alcohol and a fusible acid condensation product of furfuryl alcohol, the ratio of the quantity of the former by weight to the quantity of the latter by weight being in the range of 100 to 100 and 400 to 100.

2,404,841
IGNITION DEVICE
Frederic O. Hess, Germantown, Lawrence F. Miller, Glenside, and Karl L. Dietrich, Jr., Philadelphia, Pa., assignors to Selas Corporation of America, a corporation of Pennsylvania
Application July 11, 1942, Serial No. 450,578
6 Claims. (Cl. 219—32)



1. An ignitor of the hot wire type adapted to extend into a combustion space of apparatus, such ignitor comprising a body portion for mounting the ignitor in position on the apparatus, the body portion having a window opening therein external to the apparatus when the ignitor is mounted thereon, a tube of high temperature ceramic refractory material mounted in the body portion, the part of the body portion having the window opening overlying a region of the tube which is light transmitting, the light transmitting region being integral with the tube, and a resistance wire within the tube having one part exposed at the end of the tube adapted to extend into the combustion space and another part adjacent the window opening which, when the ignitor is connected to a source of electrical energy, will indicate energization of the resistance wire when the window opening is viewed.

2,404,842
ALARM SYSTEM
John N. Hoekstra, Royal Oak, Mich.
Application September 23, 1944, Serial No. 555,532
4 Claims. (Cl. 179—5)

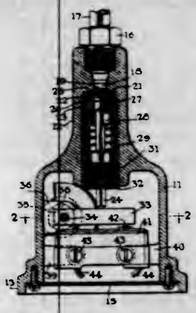


1. An alarm system for automatically transmitting a message to a telegraph or telephone circuit, comprising a tape of thin material formed of a series of sections of a desired length separated by sections of magnetic material, means by which the tape may be moved comprising a spring motor including a wheel like portion on which the tape may be wound, a brake means tending to hold the wheel portion from rotation, means for causing release of the reel to rotation by its motor whereby rotation thereof winds the tape thereon, said tape having magnetic and non-magentic sections arranged end to end in a single strip, the non-magnetic sections having a groove in the face thereof similar to the groove of a phonograph record, a stylus for riding the groove, means whereby vibration of the stylus due to the character of the groove in the non-magnetic section causes a fluctuation in an electric circuit, means actuated by said magnetic sections tending to break the circuit to the telephone or telegraph system and providing an arrangement whereby successive messages may be transmitted to a receiving station, means tending to normally maintain the motor reel stationary, and means whereby the reel may be released to rotation by the motor and thereby transmit the message to the telegraph or telephone circuit.

2,404,843
PRESSURE SWITCH
Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application July 27, 1944, Serial No. 546,797
3 Claims. (Cl. 200—83)

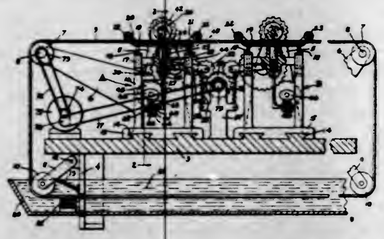
3. In a pressure-operated switch, the combination of a movable abutment; means for subjecting said abutment to a variable fluid pressure, acting thereon in one direction; a spring serving to bias said abutment in the opposite direction; adjustable means for stressing said spring; a motion transmitting member shiftable by said abutment; means for limiting the motion of said transmitting member; a snap-acting switch having an actuator shiftable past the trip point of the switch in both directions; a lever interposed between said transmitting member and said actuator; and a shiftable fulcrum for the lever, said fulcrum hav-

ing at least two settings in which respectively it establishes different motion ratios between the transmitting member and the switch actuator,



said fulcrum being shiftable in each setting in a direction to vary the relation of the trip point of the switch to the position of said transmitting member.

2,404,844
MACHINE AND METHOD FOR EDGING ARTICLES
George W. Jackson, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 10, 1943, Serial No. 486,468
11 Claims. (Cl. 51—142)



8. A device of the character described comprising abrasive means in the form of an endless belt, means for supporting and moving said abrasive means in a given direction, means for supporting an article to be edge abraded substantially in a fixed position and for rotating said article while held in said position in continuous engagement with said abrasive means and means for retaining the area portion of the abrasive means adjacent the article in a single flat plane and for shifting said area portion while retained in said flat plane toward and away from the center of rotation of the article during the rotation thereof.

2,404,845
LATCH HANDLE ASSEMBLY
Joseph George Joachim, Detroit, Mich., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich., a corporation of Michigan
Original application April 26, 1943, Serial No. 484,610, now Patent No. 2,382,062, dated August 14, 1945. Divided and this application March 7, 1944, Serial No. 525,406
1 Claim. (Cl. 292—348)

In a latch for a door having an outside panel and a pillar, an escutcheon having a hollow body extending through the panel and formed with side and end walls, said escutcheon also having a transverse peripheral flange integral with said body and overlying the panel at the outer side thereof, a reinforcement plate secured to the panel at the inner side thereof, means engaging the pillar and adjacent end wall of said body and extending at an angle to the panel for moving said escutcheon longitudinally of the panel and also transversely inwardly of the panel, cooperating wedging means on said reinforcement

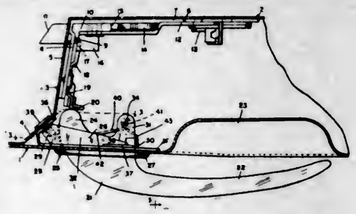
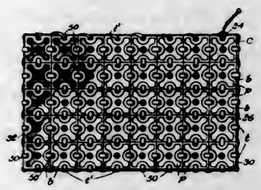


plate and said body near the opposite end wall thereof for moving said escutcheon transversely inwardly of the panel upon movement of said first mentioned means, and a handle for actuating the latch having a portion extending through said escutcheon and pivotally connected to said body.

2,404,846
HANDBAG MATERIAL
Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., Poughkeepsie, N. Y., a corporation of New York
Application February 21, 1945, Serial No. 579,038
4 Claims. (Cl. 41—34)

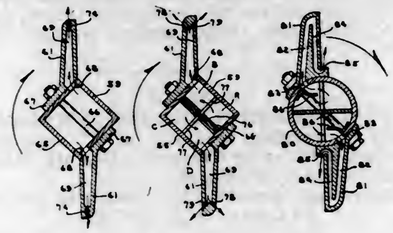


1. A decorative material for a handbag comprising an interlaced-block decorative assembly, said decorative assembly comprising hollow blocks each having a top wall and flange side walls, said blocks being arranged in longitudinal and latitudinal series with their side walls in abutting relation, windows in the top walls of said blocks, plaques in the hollows of said blocks and exposed through said windows, the said blocks being provided in their top walls with through apertures spaced inwardly from their side walls, said apertures being in opposed pairs in each of the blocks, and interlacing securing said blocks together and holding the same in said abutting relation and functioning to secure the plaques in position, the interlacing comprising crossed lacing tapes which thread in zigzag fashion through the apertures in the blocks, overlie the top walls of the blocks between adjacent apertures of adjacent blocks and underlie the said top walls of the blocks and said plaques between opposed apertures of the blocks.

2,404,847
SPREADER STOKER APPARATUS
Wilbur Kessler, Newtown Square, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 3, 1943, Serial No. 497,162
5 Claims. (Cl. 110—115)

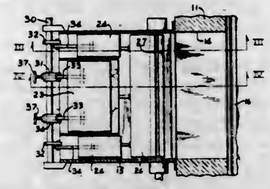
1. In a stoker, fuel-feeding means comprising a hollow rotatable body member elongated axial-

ly; means for admitting cooling medium to the hollow interior thereof; a hollow blade member carried by the body member and being of substantially the same axial length as the latter with its hollow interior in communication with the



hollow interior of the body member, said blade member having a plurality of discharge openings extending through its tip edge for discharge of the cooling medium from the hollow body member.

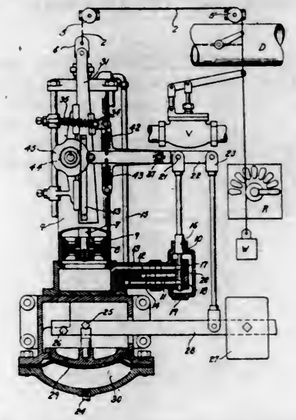
2,404,848
SPREADER STOKER APPARATUS
Wilbur Kessler, Newtown Square, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application July 23, 1943, Serial No. 495,807, now Patent No. 2,390,155, dated December 4, 1945. Divided and this application May 5, 1945, Serial No. 592,112
2 Claims. (Cl. 110—115)



1. In a stoker, fuel-feeding mechanism comprising a hopper; an impeller; a reciprocal ram structure for pushing fuel from the hopper to the impeller, said ram structure comprising an intermediate ram and an end ram at each side of said intermediate ram; means for imparting reciprocatory motion to the intermediate ram to cause it to deliver fuel to the corresponding intermediate portion of the impeller at a predetermined rate; and means for imparting reciprocatory motion to the end rams to cause them to deliver fuel to the corresponding end portions of the impeller, said last-mentioned means providing a longer working stroke of the end rams than of the intermediate ram, whereby said end rams deliver more fuel per unit area of ram face than does said intermediate ram.

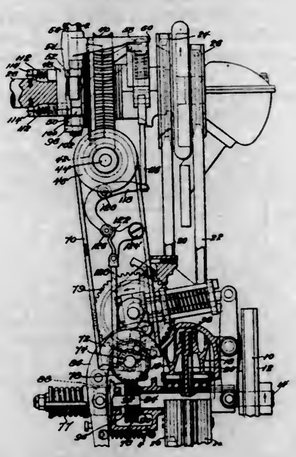
2,404,849
REGULATOR
James L. Kimball, Danvers, Mass., assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass.
Application November 1, 1944, Serial No. 561,445
5 Claims. (Cl. 121—41)

2. The combination with a fluid pressure actuated motor, a valve controlling the supply of working fluid to the motor, and a plurality of motion-imparting elements connected for operation by the motor, of a movable member mounted to receive motion from one of said motion-imparting elements, a coupling member mounted on the before named member with capability of independent movement relatively thereto and operatively associated with another of said motion-



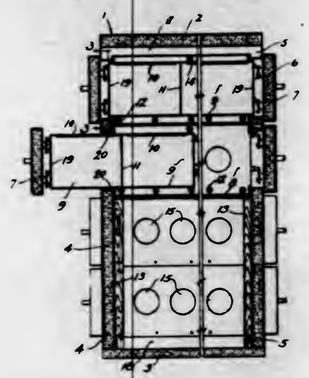
imparting elements to be actuated thereby, an actuator movable in response to changes in conditions to be governed by said motor, and a floating lever in connection with said actuator, coupling member and valve.

2,404,850
DRIVING AND STOPPING MECHANISM FOR SEWING MACHINES
Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 15, 1943, Serial No. 506,319
15 Claims. (Cl. 192—146)



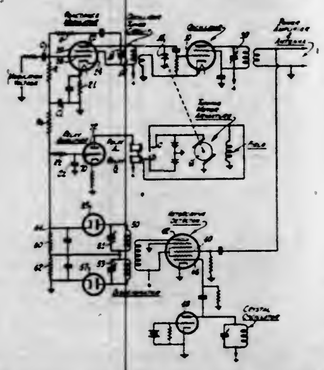
1. A driving and stopping mechanism having, in combination, a drive shaft, a clutch actuable by movement lengthwise of the shaft, manually operable means for controlling the clutch pressure, and a helical gear transmission connected to the shaft and formed with teeth inclined to the axis of the shaft in a direction to throw the clutch out of operation when the clutch pressure is partially released with a load imposed on the transmission.

2,404,851
REFRIGERATED LOCKER
Frank W. Knowles and Hawley A. Dudley, Seattle, Wash.; said Dudley assignor to said Knowles
Application January 23, 1942, Serial No. 427,907
4 Claims. (Cl. 312—149)



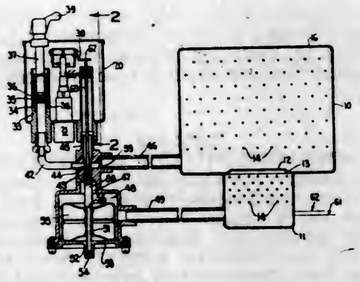
1. In a cabinet structure, a housing including a side wall, said side wall having an opening therein, a drawer supported within the housing for movement outwardly through said opening, a closure member for said opening, a locking member moveably carried by the closure member, said housing having a socket therein adjacent said opening for receiving a portion of said locking member and maintaining the closure member in position closing said opening, a keeper carried by an end of the drawer, and said keeper being positioned to receive therein a portion of the locking member as it is withdrawn from the socket to detachably secure the closure member to the drawer.

2,404,852
AUTOMATIC FREQUENCY CONTROL
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 7, 1942, Serial No. 464,856
12 Claims. (Cl. 250—40)



1. In means for tuning a tunable circuit, a source of wave energy the frequency of which may vary about a selected frequency, connections to said source for deriving a potential which varies above and below respectively a base value when the frequency of the wave energy varies above and below respectively a mean value, an electrically driven mechanical tuning means associated with said circuit for retuning the same in the presence of prolonged deviations of said potential from said base value, an electronic tuning means associated with said circuit for retuning the same in the presence of quick variations of said potential from said base value, and connections for controlling the mechanical tuning means and the electronic tuning means by said derived potential.

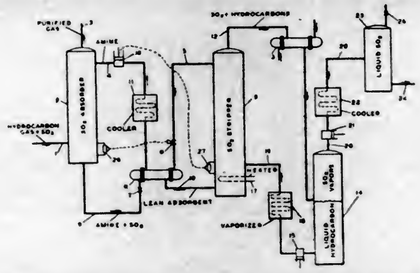
2,404,853
FLUID CONTROL FOR OIL BURNERS
Walter S. Landon, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 24, 1944, Serial No. 532,428
4 Claims. (Cl. 158—38)



1. In a liquid fuel burning apparatus having a constant level device for supplying fuel to a main burner pot and to a low fire burner pot opening upwardly through the bottom wall of said main pot so that liquid fuel can overflow from said main pot into said low fire pot, safety means controlling the flow of liquid fuel from the constant level device to both of said pots and comprising a float chamber, a conduit connecting said float chamber to the low fire pot for flow from said float chamber to the low fire pot and for flow from the low fire pot to said float chamber so that the liquid level in said float chamber will correspond to the level in the low fire pot, a valve casing mounted on said float chamber and having an inlet and a plurality of outlets, a conduit connecting said inlet to the outlet of the constant level device, one of said valve casing outlets discharging into said float chamber, a conduit connecting another of said valve casing outlets to said main pot, a valve controlling said one outlet, a valve controlling said other outlet, and a float in said float chamber and connected to said valves and operable at a predetermined liquid level in the low fire pot to close said first-named valve and at a higher liquid level in said low fire pot to close said second-named valve.

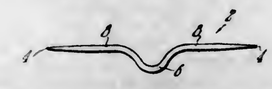
2,404,854
REGENERATION OF ABSORBENT
John W. Latchum, Jr., and James S. Connors, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application December 18, 1944, Serial No. 568,767
15 Claims. (Cl. 23—3)

2. A process for separating acidic gas from gaseous mixtures containing same comprising the steps of contacting the gaseous mixture with a diethanolamine absorbent, separating the gaseous mixture from the absorbent and removing the gaseous mixture as a purified gaseous product of the process substantially free of acidic gas; passing the contacted absorbent as rich absorbent into a stripping zone having an inlet end and an outlet end with respect to absorbent flow, passing hydrocarbon into the outlet end and removing acidic gas and hydrocarbon from the inlet end of said stripping zone, removing stripped absorbent from the outlet end of the stripping zone



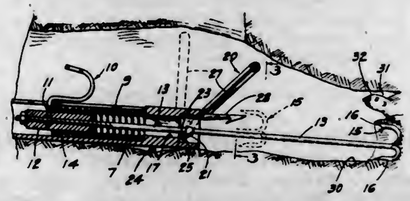
and recycling this stripped absorbent into the original contacting step as the diethanolamine absorbent; separating the acidic gas and hydrocarbon, removing the acidic gas as a second product of the process and recycling the hydrocarbon as the above said hydrocarbon into the outlet end of said stripping zone.

2,404,855
CABLE-STITCH HOLDER
Gertrude R. Marshall, Schenectady, N. Y., assignor to C. J. Bates & Son, Chester, Conn., a firm
Application May 3, 1945, Serial No. 591,786
1 Claim. (Cl. 66—117)



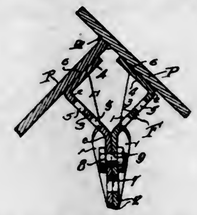
As a new article of manufacture a stitch holding device for hand knitting operations comprising in combination, an elongated rod-like body having opposite pointed free ends in substantial axial alignment and said body intermediate said ends having an offset loop portion formed by portions which curve inwardly from said opposite ends and outwardly away from the longitudinal axes of said ends and are connected together.

2,404,856
RODENT TRAP
Thomas G. McKeen, Torrance, Calif.
Application April 27, 1945, Serial No. 590,532
10 Claims. (Cl. 43—80)



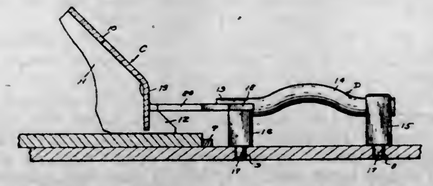
1. In a rodent trap, an elongated mounting member, a longitudinally movable rod supported by said member to move back and forth in relation to the length of the latter, a spring acting between said member and rod to move the rod in one direction, said rod being manually movable against the opposition of said spring to a set position, a rodent-releasable catch carried by said member to maintain said rod in the set position, and hook means carried by said rod to cooperate with said member to grip the rodent between said hook means and member when the rodent releases said catch.

2,404,857
FASTENER FOR POSITIONING, ALIGNING, AND SECURING PLATES FOR WELDING
Roy W. McLaren, Oaklyn, N. J.; Helen H. McLaren, administratrix of said Roy W. McLaren, deceased, assignor to Helen McLaren
Application November 24, 1942, Serial No. 466,817
3 Claims. (Cl. 113—99)



1. As a new article of manufacture, a heavy duty assembly line fastener bracket for erecting, adjustably aligning and temporarily securing complemental ship plates in relatively correct position for permanent welding purposes comprising a substantially flat faced rectangular plate-like abutment of sufficient strength and area for assembling coaction with huge ship plates, said abutment having holes for accommodation of a bolt or bolts and other holes for accommodation of an insertable and removable drift pin, the latter holes being square to accommodate a drift pin of tapered polygonal form, a second rectangular plate formed integral with said abutment and bent to take a position at approximate 45° angles in respect to the abutment, said second plate constituting a connecting web for connection with the ship plate as well as an apron to accommodate a jig tool for assembling the bracket on the ship plates, said second-named plate being provided at opposite ends with lateral spaced parallel flanges for confinement of the jig tool therebetween and to serve as reinforcing elements, and a third plate formed integral with the second-named plate and disposed at right angles and adapted for tack welding on the predetermined attaching area of the ship plate.

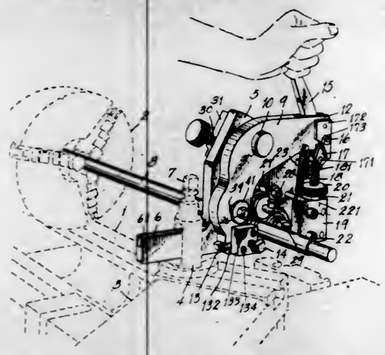
2,404,858
JIG
Roy W. McLaren, Oaklyn, N. J.; Helen H. McLaren, administratrix of said Roy M. McLaren, deceased, assignor to Helen McLaren, Oaklyn, Camden, N. J.
Application February 18, 1943, Serial No. 476,317
4 Claims. (Cl. 33—180)



1. A jigging tool of the class described comprising a handle, posts at opposite ends of the handle, said posts having pins adapted for re-

ception in sockets in a platen, a special bracket adapter head mounted on and projecting beyond one end of the handle adapted for coaction with a fastener bracket, said head being dovetailed in top plan view.

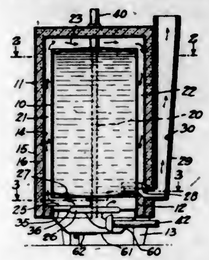
2,404,859
MACHINE TOOL
George Melling, Sr., Jackson, Mich.
Application March 9, 1944, Serial No. 525,677
25 Claims. (Cl. 82—34)



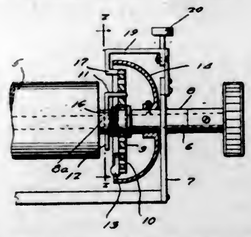
1. In a machine of the class described including a head stock, a tool carriage and a tool post adjustably mounted on said tool carriage, the combination of a combined tool holder and work rest support mounted on said tool post to overhang work driven by the head stock, an angled lever-like tool holder pivotally mounted on said support at the angle thereof with one arm depending at the side of the work, a tool mounted on the depending arm of said tool holder, a tool holder adjusting lever pivoted on its other arm, a retracting spring for said tool holder, a micrometer screw on said support provided with a calibrated adjusting nut, a link connection for said adjusting lever to said micrometer screw, a work rest pivotally mounted on said support and provided with a roller positioned to engage the work in approximately 180° angular relation to said tool, a retracting spring for said work rest, an adjusting screw for said work rest, a second work rest pivotally mounted on said support and provided with a roller adapted to engage the work at approximately 90° angular relation to said tool, a retracting spring for said second work rest, an adjusting screw for said second work rest said work rests and tool coacting to laterally support the work and said work rests acting to sustain the cutting thrust and stresses of the tool upon the work.

2,404,860
WATER HEATER
Herbert William Miller, Burbank, Calif.
Application December 17, 1942, Serial No. 469,378
5 Claims. (Cl. 126—350)

1. In a water heater, a vertically elongated water tank having hot and cold water connections; a gas burner disposed in heating relation to the bottom of the tank; a heat insulating jacket enclosing the tank and spaced from the side and top of the latter; means co-acting with the tank and jacket to divide the space around the side of the tank vertically into a duct for ascending gases from the burner and a second duct for descending gases, with the space above the top of the tank defining a connecting duct between the first and second ducts; means defining an inlet to the first said duct at a location beneath the tank for the entrance of hot gases from the burner; means defining an outlet from the second said duct at a low level relatively thereto, whereby to force burner gases to flow through the second said duct in a direction counter to the natural thermal circulation in order to promote a maximum exchange of heat between the gases and the tank before the gases discharge from the outlet; and means critically restricting the volume of air at all burner flame ports to the quantity required as secondary air for complete combustion so as to prevent dilution of the hot burner gases by excess air.



2,404,861
PAGE END INDICATOR FOR TYPEWRITERS
Edward F. Petschauer, Cleveland, Ohio
Application April 17, 1945, Serial No. 588,854
5 Claims. (Cl. 197—189)

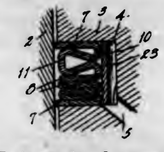


1. A page end alarm for typewriters comprising in combination a platen shaft, a disk freely mounted on the shaft and having a spiral guide on one of its faces, a bell surrounding the disk, a clapper for the bell and disposed transversely of the guide at its outer end, a traveler carried by the shaft for rotation therewith and radial movement with respect thereto, said traveler engaging the guide for movement thereon and adapted to engage and actuate the clapper upon reaching the outer end of the guide, spring means for rotating the disk to return the traveler to the inner end of the guide, and means securing the disk against rotation.

2,404,862
PISTON RING ASSEMBLY ELEMENT AND METHOD OF MAKING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan
Application February 2, 1945, Serial No. 575,754
12 Claims. (Cl. 309—44)

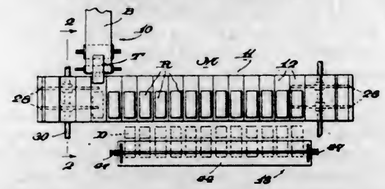
1. A piston ring assembly comprising a pair of thin split flat annular expansible cylinder wall engaging side elements formed of ductile wear-resisting material, and an annular split expansible intermediate element formed of ductile wear-

resisting material folded longitudinally upon itself into a plurality of radially disposed outer and intermediate plies, the several plies being continuous from end to end of the element, one of



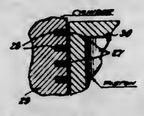
the plies being flat and of greater axial width than the other plies and constituting a cylinder wall engaging member, the other plies being axially conformed to provide alternate drain reaches and spacer reaches.

2,404,863
DISTRIBUTING CONVEYER
Zoltan Roseman, Cleveland, Ohio
Application December 23, 1943, Serial No. 515,434
13 Claims. (Cl. 198—31)



1. In distributing conveyer mechanism of the character described, means for feeding articles in spaced end-to-end relation, and means for receiving the articles in spaced side-to-side relation until a predetermined number of such articles have been deposited thereon, said second named means comprising a plurality of interconnected and independently movable sequentially operated conveyer elements for the row aligning of said articles thereon..

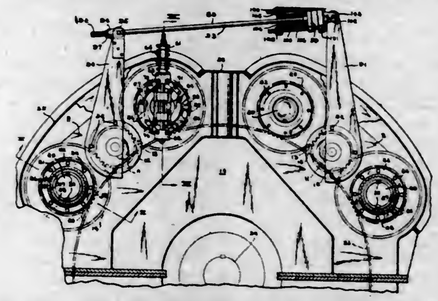
2,404,864
METHOD OF MAKING PACKING RINGS
Abraham Sandow, Plainfield, and Albert A. Wenzel, West Orange, N. J.
Application February 11, 1943, Serial No. 475,504
3 Claims. (Cl. 29—156.6)



1. A method of manufacturing cast packing rings with inherent contracting tension comprising forming a pattern the size and shape of the desired ring, cutting said pattern and overlapping the ends thereof, making a casting corresponding to said pattern, slitting the casting in conformity with the overlapping of the pattern, and spreading and flattening the ring with the ends thereof abutting.

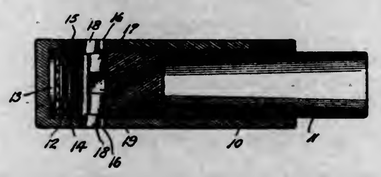
2,404,865
GEAR TIMING METHOD
Harold W. Semar, Drexel Hill, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 14, 1943, Serial No. 482,977
3 Claims. (Cl. 29—159.2)

1. In assembling a locked train of double-reduction gearing comprising a high-speed pinion, a pair of high-speed gears carried by a pair of intermediate shafts and driven by said high-speed pinion, a pair of slow-speed pinions carried by said pair of shafts and a slow-speed gear driven by said pair of said slow-speed pinions, the method of dividing equally between the two high-speed gears the torque transmitted thereto by the high-speed pinion; which method comprises assembling the gear train with the exception of a first intermediate element thereof; substituting for said element second and third elements rotatable relative to each other about a common axis; connecting the second element to a fourth element in the gear train and the third



element to a fifth element in the gear train; applying equal and opposite torques to said second and third elements to rotate them relative to each other about said common axis; applying a torque to the high-speed pinion while the slow-speed gear is restrained from rotating, said torque being sufficient to constrain all rotating parts to assume their running positions with all backlash removed; determining the angular relationship of the fourth and fifth elements; removing the second and third elements; replacing them with the first element for which they were substituted; and so connecting said first element to the fourth and fifth elements that the latter have the determined angular relationship.

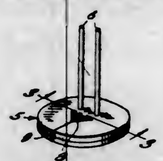
2,404,866
FLOATING TOOLHOLDER
James E. Sheuman, Waynesboro, Pa.
Application October 3, 1944, Serial No. 557,009
5 Claims. (Cl. 279—16)



1. A tool holder comprising a bushing, a tool carrying member having a shank fitting loosely therein, said bushing and tool carrying member having registering transverse apertures, a pin having an intermediate portion and one or more eccentric end portions which portions are adapted to have a relatively large surface engagement with said registering apertures, said pin being adapted to rotate and maintain a driving connection between said bushing and said tool carrying member, a thrust bearing between said bushing and tool carrying member, a washer on each side of said bearing, one of said washers presenting a flat surface to the bearing and the other presenting a curved surface to the bearing, said curved and flat surfaces permitting rolling and swivelling

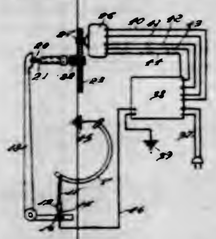
action of the tool carrying member in said bushing, the eccentric portions of said pin and the walls defining the openings in the bushing providing relative large contact between the pin and the bushing.

2,404,867
HAIR CURLER
Charles J. Simons, Medford, and Althea Randall, Lynn, Mass.
Application May 17, 1945, Serial No. 594,342
2 Claims. (Cl. 132—40)



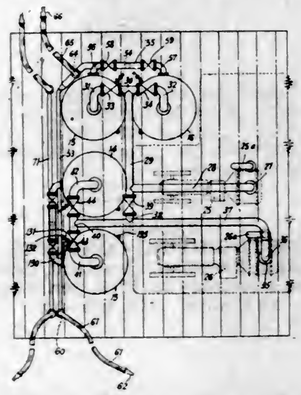
1. A hair curler comprising a base plate, and outstanding flexible pins carried by the base plate and about the inner portions of which the lock of hair is wound from the inner end of the lock to the outer end thereof to form a curl, the outer end portions of the pins being bendable to confine the wound lock of hair against the base plate and prevent it from unwinding from the pins until the curl is set, the base plate comprising two laminations secured together, the pins comprising similar end portions of a single centrally return bent length of wire having an intermediate portion bent at right angles to the end portions and secured between the laminations of the base plate, said end portions projecting through one of said laminations.

2,404,868
PRESSURE RESPONSIVE CONTROLLING MECHANISM
Jens Sivertsen, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 31, 1943, Serial No. 481,188
7 Claims. (Cl. 200—81.8)



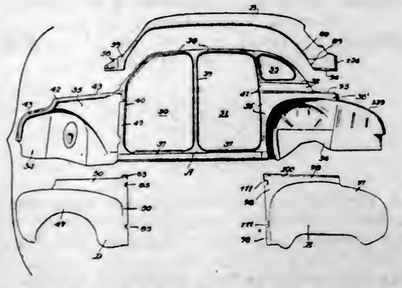
7. Controlling mechanism, comprising a Bourdon tube mounted to have a vertical tip travel, a spring connected at its upper end with said tube, a contact carried at the lower end of said spring, a continuously driven micrometer screw having a reversible drive, a bellcrank lever having an upwardly directed arm bearing at all times against an end of said screw and having an arm extending laterally beneath said contact, and a contact on said arm beneath said first contact whereby when said contacts engage due to increased pressure in said tube the micrometer screw is driven in a forward direction to permit the lever to turn to open the contacts and effect the movement of the screw in a reverse direction, thereby turning said lever to cause a reengagement of said contacts.

2,404,869
VACUUM PUMPING SYSTEM
Thomas Sorrentino, New York, N. Y., assignor to Oceanic Tank Processing Corp., Brooklyn, N. Y., a corporation
Application May 10, 1945, Serial No. 592,938
13 Claims. (Cl. 103—236)



1. In a vacuum tank system of the character described, a vacuum tank, means to pump the air out of the tank, inlet means adjacent the upper end of the tank, a suction hose connected to said inlet means, said hose being provided with a nozzle, means at the lower end of the tank to discharge the contents thereof, a test tank, and bleeder means on said discharge means leading to the test tank.

2,404,870
BODY FOR VEHICLES, ESPECIALLY FOR PLEASURE AUTOMOBILES
Theodore Ulrich, Milwaukee, Wis., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 17, 1941, Serial No. 402,878
6 Claims. (Cl. 296—28)



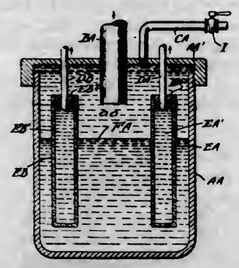
1. In a vehicle body, a wall comprising an opening having a jamb face and being adapted to be closed by a closure member, a fender arranged on the outside of said wall at a short distance from the jamb face of said opening, an integral panel extension of said fender overlying part of but being slightly spaced from the outer surface of said wall between said fender and said opening, means for removably connecting the margin of said fender extension along said opening to said wall, said fender extension being provided along the margin removably connected to said wall with inwardly and laterally extending flanges or tabs, the laterally extending flanges or tabs projecting from the inwardly directed flange in the same direction as the adjacent portion of the fender extension, means on said wall slidably engaged by said laterally extending flanges or tabs so that by moving said fender with its extension in a plane substantially parallel to the plane of the opening and away from the center of the opening the fender may be easily disconnected from the wall or reattached to it by the reverse procedure.

2,404,871
LUBRICATING COMPOSITIONS
Paul R. Van Ess, Berkeley, Forrest J. Watson, Oakland, and Gary M. Whitney, Piedmont, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 28, 1943, Serial No. 496,678
12 Claims. (Cl. 196—13)

1. A process for obtaining a sulfur-containing fraction possessing anti-oxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting mercury salt-sulfur compound complex to regenerate and recover the extracted sulfur compounds.

12. A lubricant comprising a predominant amount of a refined mineral oil and characterized by a normal tendency to corrode metal bearing surfaces, and an added corrosion-inhibiting amount of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing anticorrosive and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

2,404,872
METHOD OF AND APPARATUS FOR SEPARATING IMMISCIBLE FLUIDS
John M. Walker, Jr., Philadelphia, Pa., assignor to Selas Corporation of America, a corporation of Pennsylvania
Application December 29, 1941, Serial No. 424,800
6 Claims. (Cl. 210—113)

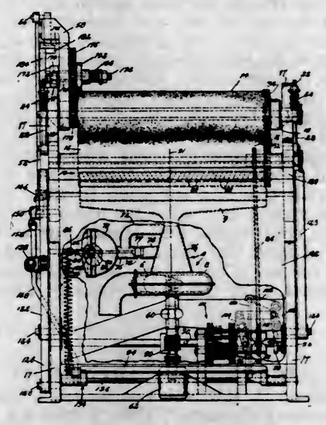


1. In the art of separating a first fluid at an optimum flow rate from a second fluid immiscible therewith and in which the difference in surface tensions of the fluids is ω, such separation being effected with the aid of a porous wall member which is formed with capillary passages and pervious to the first fluid, which comprises bringing a mixture of the fluids into physical contact with such a wall member, producing a pressure differential P across the wall member to cause flow of the first fluid through the capillary passages whose maximum size is of cross sectional area A having a peripheral locus Y, the maximum size capillary passage being related to the difference in surface tensions ω and pressure differential P in a manner substantially to satisfy the formula

$$A=\frac{Y\omega}{P}$$

so that, while the first fluid is flowing through the capillary passages, the second fluid is prevented from flowing through the wall member by the difference in surface tensions ω of the first and second fluids at the inlets of the capillary passages.

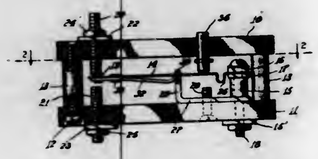
2,404,873
MACHINE FOR TREATING TANNED SKINS
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 3, 1941, Serial No. 391,725
20 Claims. (Cl. 15—15)



1. In a machine of the character described, means for feeding a work piece first in one direction and then in the reverse direction, driving mechanism for said work feeding means, work treating means spaced with respect to each other for treating different full width portions of the work piece, a detector device arranged to contact the work piece to be controlled thereby, said detector device having means associated therewith and being operative to initiate operation of one of the work treating means to treat an entire width portion of the work piece, said detector device also having connections to initiate feeding of the work piece in said reverse direction, a timing device, and means controlled by said timing device to initiate operation of the other work treating means after reversal of the direction of feed of the work piece to complete treatment of the latter.

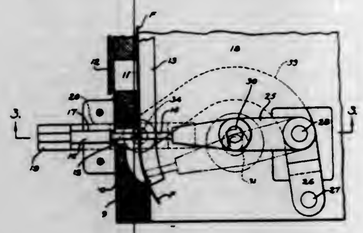
11. In an apparatus for treating skins, a support for a skin, said support having a slot of fixed width dimension extending transversely across the width of the support, power means for feeding said skin over said slot, a suction device comprising a suction conduit opening into said slot, a pipe opening into the suction conduit below said slot, said pipe having also an opening to the outside air, and a valve mechanism comprising a piston arranged to be controlled by the force of the suction in the suction device, said piston being arranged to control said opening from the outside air into said pipe, thereby to regulate the force of the suction through said slot.

2,404,874
ELECTRIC SNAP SWITCH
Maurice J. Wohl, Brooklyn, N. Y.
Application August 11, 1944, Serial No. 548,967
2 Claims. (Cl. 200—67)



1. A snap switch comprising a frame, a post adjacent one end thereof, a thin leaf spring hingedly fastened at one end to said post with the other end free to move, said leaf spring having an opening therein intermediate the ends thereof and having a bowed portion adjacent its hinged end, a pair of spaced contacts at the other end of the frame between which the free end of the leaf spring moves, the free end of said leaf spring being normally in contact with one of said contacts, a bracket member having a portion extending through said opening, said extending portion being provided with a semi-spherical shaped recess in substantially the plane of the leaf spring, an elongated substantially rigid finger member disposed below and along the leaf spring in substantially the same plane as the leaf spring with one end fastened to the free end of said leaf spring and with its other end pivotally seated in said recess and means for acting on a portion of said leaf spring to cause the free end thereof to move out of its normal position and into contact with the other contact with a snap action.

2,404,875
KINETOGRAPH MOVEMENT
George H. Worrall, Los Angeles, Calif.
Application February 7, 1944, Serial No. 521,359
6 Claims. (Cl. 88—18.4)



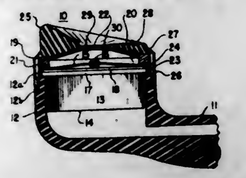
1. In kinetograph mechanisms having a frame with a film guiding race, a film moving claw adapted to engage in a film perforation, means for moving the claw in a motion which includes a movement in which the claw moves from one side of the film race toward and through the plane of the race on a line transverse of the race, a film registering pin mounted in the frame for oscillatory movement at the opposite side of the film race toward and away from the film race on the same transverse line, and means linking the claw and register pin together and transmitting the claw movement along said transverse line to the pin, whereby the claw and pin will move in substantial unison along the same transverse line to engage and disengage one and the same film perforation.

2,404,876
OIL WELL TOOL
Paul H. Granger, Los Angeles, Calif.
Application January 6, 1942, Serial No. 425,780
12 Claims. (Cl. 166—11)



1. The combination with an oil well tool for use in cementing or the like suspended from a tubular well string and having a discharge opening for discharging liquid from the interior of the tool, of a fluid flow control device interposed between the well string and tool and having means defining a passage therein providing communication between the interior of the tool and the interior of the well string; said flow control device comprising a body member connected to the tool and mounted on the well string in such manner as to permit limited vertical movement of the well string relative to said body member; and valve means within said body member connected to the well string and operable by manipulation of the well string to an intermediate position to open said passage; said valve means being operable by upward movement of the well string relative to said body member, to a position above said intermediate position to close said passage, and by downward movement of the well string relative to said body member, to a position below said intermediate position to close said passage.

2,404,877
SOUND TRANSLATING DEVICE
Albert F. Horlacher, Genoa, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 9, 1941, Serial No. 401,591
8 Claims. (Cl. 181—31)



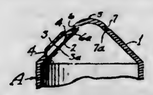
7. In a sound translating device comprising a casing, a diaphragm, a transducer unit carried by said casing and operatively coupled with said diaphragm, and an assembly unit secured to said transducer unit and comprising a plate spaced from said diaphragm to form a chamber therebetween, said assembly unit also comprising a ring-shaped plate having its inner and outer annular edges engaging said first-named plate and having its body portion spaced from said first-named plate to form an annular compartment, said first-named plate and said ring-shaped plate having openings therethrough which provide a restricted passage from said chamber through said assembly unit.

2,404,878
METHOD OF MAKING PLATFORM SHOES
William J. Kubicki, Webster, Mass.
Application March 13, 1945, Serial No. 582,561
1 Claim. (Cl. 12—142)



In the method of making a shoe of the platform type and having an upper and a full-length platform casing, the steps of stitching a soft heel lining to the inside of said upper around the top and front edges only of said heel lining but leaving the lower edge of the heel lining free, stitching the lower edge of said upper, the upper edge of the front portion of said casing and the outer edge of a pliable part-length in-sole together forward of the heel portion only, said in-sole having forward and shank portions only, stitching the upper and the rear portion of said casing only together around said heel portion, inserting a molded counter in the pocket formed between the heel portion of the upper and said soft heel lining at the free lower edge of said heel lining, placing a stiff heel insert over the in-turned edges of the counter and heel lining and in the heel portion only of said shoe, lasting said parts, tacking said parts together on the last, applying a full-length platform to the shoe, securing the down-turned casing to fully enclose said platform, and securing an outer sole to said shoe.

2,404,879
CONICAL CAP FOR COLLAPSIBLE TUBES
Gaston L. Lateur, Menlo Park, Calif.
Application February 20, 1943, Serial No. 476,600
1 Claim. (Cl. 222—81)



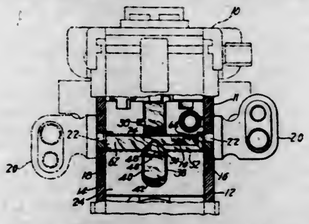
In combination, a cylindrical container having a conical end with an outlet opening therein, the opening being temporarily covered by a closure connected to the conical end by a weakened wall, the weakened wall supporting the closure above the outer surface of the conical end, and a cap having a rim rotatably mounted on the container and inwardly inclined arms adapted to contact with the conical end, means for slidably holding the inner arm ends for preventing the accidental removal of the cap, the initial rotation of the cap causing an arm to sever the weakened wall to free the closure from the opening, either of said arms constituting a cover for the opening when the cap is rotated into a predetermined position, said means including arcuate shoulders on the conical end and projections on the inner arm ends for slidably contacting with the shoulders, said arms having sufficient resiliency to snap into contact with the shoulders when the cap is mounted on the conical end, said shoulders defining grooves for limiting the rotative movement of the cap.

2,404,880
ADJUSTABLE SHIP CURVE
Gaston L. Lateur, Menlo Park, Calif.
Application March 27, 1944, Serial No. 528,315
2 Claims. (Cl. 33—176)



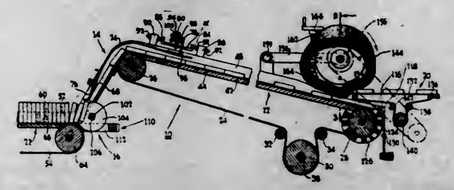
1. In a device of the type described, an elongated rigid base having a curved upper portion and a flat under portion in cross section, sleeves slidable along the base and having curved and flat portions to contact with the upper and lower base portions, a portion of each sleeve wall being struck up to form a tongue that parallels the flat under base portion, said tongue having an opening therein, a connector swivelled in each tongue opening and being supported by the tongue and sleeve, an extensible member carried by each connector, and a flexible ruling member carried by the extensible members and being held in the desired shape by the extensible members.

2,404,881
SEAR RELEASE MECHANISM
Laurence H. McClure, Jr., West Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 26, 1944, Serial No. 519,702
9 Claims. (Cl. 89—27)



6. A sear slide assembly operable from either side of a firearm and constructed for use in a conventional sear slide guideway in a breech bolt, said assembly comprising in combination, a pair of elongated members constructed and arranged to overlap for a portion of their length and each provided with a complemental recess longer than and accommodating the overlapping portion of the other member, said members each having a cam surface formed on the overlapping portion thereof and arranged to be moved independently of each other to coact with and actuate a sear when operatively assembled in the sear slide guideway.

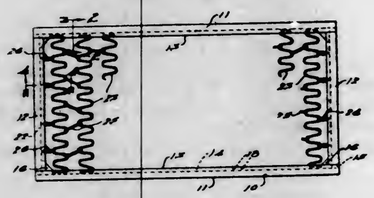
2,404,882
ARTICLE HANDLING APPARATUS
George C. Monaco, Douglaston Hills, N. Y.
Application February 25, 1943, Serial No. 477,009
14 Claims. (Cl. 198—34)



4. For use with an article handling machine having a receiving conveyor belt on which articles

are discharged from the conveyor belt of a delivery system which, at the point of discharge, is disposed above the receiving conveyor belt: means to prevent jamming of articles at their point of delivery to the receiving belt, said means comprising an over-riding drive mechanism for accelerating articles as they are discharged from said delivery system and deposited on said receiving belt by frictionally contacting the upper surfaces of the articles with an element moving in the direction of travel of the articles and at a speed greater than that at which either of said belts moves the articles, and means to actuate said over-riding drive mechanism.

2,404,883
SPRING CONSTRUCTION
Andrew Mouw, Huntington Woods, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application April 17, 1942, Serial No. 439,311
8 Claims. (Cl. 5—189)



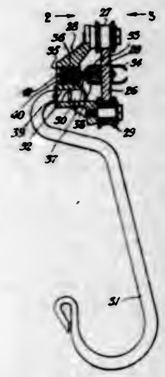
8. A spring construction, including, in combination, a frame comprising spaced longitudinally extending members and end members attached thereto, the inner faces of said members being provided with slots, gusset plates disposed in the slots in the inner corners of said frame, pairs of pins extending through the slots in said longitudinally extending members in aligned relation on opposite sides of said frame and spaced from the bottom of said slots, spring strips made of wire bent in zig-zag formation having laterally extending end portions reversely bent to form hooks which pass between the pins and bottom of the slots when the ends are inserted over the pairs of pins for forming a spring surface across the frame, individual pins extending through the slots in the end members, and means interconnecting the springs to each other and the pins in the end members.

2,404,884
APPARATUS FOR HANDLING POWDERED MATERIALS
Oliver T. Pieper, Wilmington, Del., assignor to American Dyewood Company, New York, N. Y., a corporation of Pennsylvania
Application March 12, 1945, Serial No. 582,244
2 Claims. (Cl. 198—213)



1. In an apparatus for discharging powdered material, a housing having an inlet, an extension of reduced diameter connected to the housing, a rotatable shaft within the housing and extension, helical conveyor means on the shaft conforming to the diameters of the housing and extension and terminating short of the end of the extension, the pitch of the conveyor means in the extension being such that its capacity slightly exceeds that of the conveyor means in the housing and a flexible flap so suspended adjacent and opposite the outer end of the extension that normally it exerts no appreciable pressure against the outer end of the extension, said flap being adapted to engage and close the outer end of the extension when a negative pressure exists within the extension.

2,404,885
CONVEYER
Sydney Pile, London, England, assignor to Teleflex Products Limited, London, England, a British company
Application November 17, 1944, Serial No. 563,857
In Great Britain October 11, 1943
8 Claims. (Cl. 198—177)

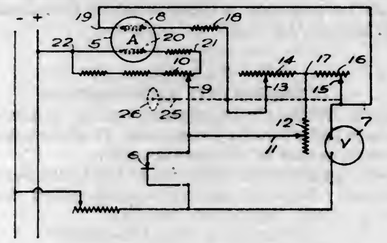


1. A conveyer, comprising a flexible multi-stranded metal cable with projecting helical turns on its outer surface, means for supporting and confining a length of said cable in a definite linear position while leaving it free for movement, a runway adjacent and parallel with said cable, a runner supported by said runway and adapted to run on said runway, means carried by the runner adjacent the cable for meshing engagement with said helical turns on the cable, means for moving the cable in its supporting and confining means to cause the said engaged helical turns to impart a linear movement to the meshing means of the runner and consequently to the runner along the parallel runway, and means connected to the runner for supporting a load to be conveyed.

2,404,886
ELECTRICAL MEASURING SYSTEM
Glenn L. Prudhon, North Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 14, 1944, Serial No. 526,420
5 Claims. (Cl. 171—95)

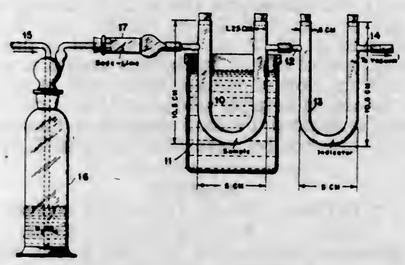
1. In an electrical measuring system for eliminating meter drain corrections, means for measuring the potential difference across an article under test, means for measuring the current

passing through the article, and a compensating means in magnetic communication with the cur-



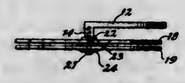
rent measuring means and controlled by the current drawn by the potential measuring means.

2,404,887
STABILIZATION OF NITROCELLULOSE
Richard E. Reeves and Joel E. Giddens, New Orleans, La., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
Application May 5, 1944, Serial No. 534,370
2 Claims. (Cl. 260—223)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



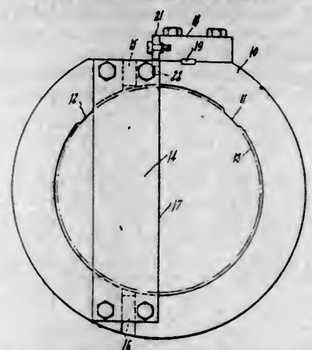
1. A process comprising stirring nitrocellulose in an aqueous solution containing ammonia at room temperature for a time not to exceed about 1 hour, thereby to stabilize the nitrocellulose.

2,404,888
MICROSCOPE
Oscar W. Richards, Snyder, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association
Application October 28, 1943, Serial No. 507,959
6 Claims. (Cl. 88—40)



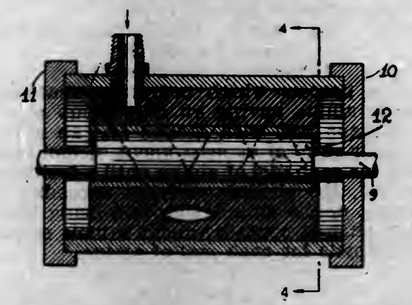
1. The combination with a substage condenser having below the lenses thereof a guideway for receiving a slide, of a perforated slide receivable in said guideway with the perforation aligned with the axis of said lenses, said slide carrying a pivot and a plurality of coaxial superimposed light wedges rotatably mounted on said pivot in optical alignment with said substage condenser and with said perforation.

2,404,889
COLLOCATING GAUGE
Donald F. Ringle, Springfield, Vt., assignor, by mesne assignments, to the Government of the United States of America
Application September 14, 1943, Serial No. 502,280
6 Claims. (Cl. 33—180)



1. A collocating gauge for determining the axial plane of a transverse center line across the end of a threaded object in relation to a predetermined point on the thread, comprising a body member having a pair of locating elements adapted to contact at spaced points with the periphery of the member to be gauged, a cross member fixed to said body and adapted to contact the end surface of the member to be gauged, said cross member having a ruling edge passing through the axis of the threaded portion when said locating elements are in contact with said periphery, and thread contacting means positioned rearwardly from said cross member at a predetermined distance to engage the thread in a predetermined relation to said predetermined point on the thread of the member to be gauged.

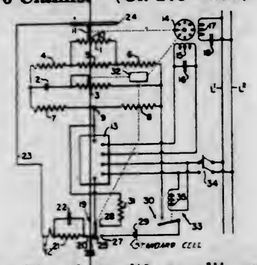
2,404,890
COMPRESSOR
Peter Schlumbohm, New York, N. Y.
Application November 25, 1944, Serial No. 565,989
7 Claims. (Cl. 103—149)



1. A compressor comprising a driving shaft, an excenter section on said driving shaft; a first rigid tubular element surrounding said excenter section; a second, wider rigid tubular element arranged concentrically to the driving shaft; a rubber mass encased between said two tubular elements and bonded to the contacted walls along the entire length of contact; means to hold the driving shaft concentrically to said second tubular element; cavities in said rubber mass forming a spiral path for the fluid to be pumped, said spiral being coaxial with the driving shaft; inlet- and outlet-openings in the wall of said

second tubular element; additional cavities in said rubber mass to connect the ends of said spiral path with said inlet- and outlet-openings, respectively.

2,404,891
CONTROL APPARATUS
Henry M. Schmitt, Glenside, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 25, 1943, Serial No. 480,582
6 Claims. (Cl. 175—183)



1. The combination with a split potentiometer circuit having a branch including a slidewire resistance, a second branch including a source of current and a variable resistance, and a third branch including a fixed resistance, of a device to vary said variable resistance, a source of substantially constant potential, a connection between said source of substantially constant potential and said fixed resistance to oppose the potential of said substantially constant potential to the potential drop across said fixed resistance, periodically operating means to actuate said device to maintain said opposed potentials equalized, energizing terminals for said periodically operating means adapted to be connected to energizing means, and means connected to said energizing terminals to open said connection upon said energizing means becoming ineffective to energize said periodically operating means.

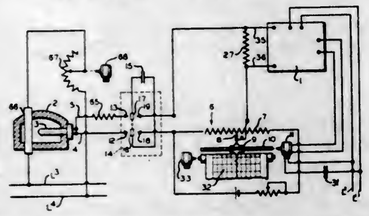
2,404,892
SHELLAC MODIFIED RESIN
Milton J. Scott, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 28, 1942, Serial No. 432,733
11 Claims. (Cl. 260—24)

1. The process which comprises reacting an aromatic amine having an NH_2 group attached to a benzene ring with shellac and an aldehyde in a molar ratio of at least about ¾ mol formaldehyde for each mol of amine until a fusible resin is formed, the shellac used not exceeding 50% by weight of the amine, the resin being thermosetting when it contains about 2 mols combined formaldehyde for each mol of amine.

2,404,893
PREPARATION OF DIAZOTIZED 2,4-DINITRO-6-HALOGEN ANILINE
David L. Tchorni, Plainfield, and Glenn S. Watson, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 12, 1942, Serial No. 446,774
6 Claims. (Cl. 260—141)

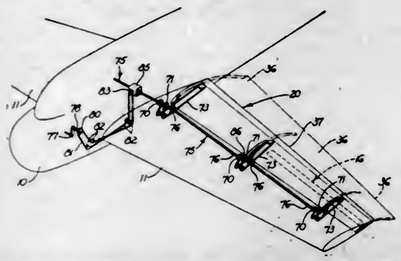
1. A method of preparing a diazotized dispersion of 2,4-dinitro-6-halogen aniline which comprises nitrating a compound included in the group consisting of 2-chlor-4-nitraniline and 2-brom-4-nitraniline with mixed nitrating acids and diazotizing without preceding dilution with water and without isolation of the nitrated compounds to produce a dispersion of the diazotized 2,4-dinitro-6-halogen aniline.

2,404,894
MEASURING APPARATUS
Walter P. Wills, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application November 15, 1938, Serial No. 240,594. Divided and this application September 25, 1942, Serial No. 459,638
12 Claims. (Cl. 172—239)



3. In measuring apparatus, a circuit including a potentiometer resistance, a standard source of E. M. F. for said resistance, an electrical energy storing device, means to periodically connect a source of E. M. F. to be measured to said device to charge the latter and to connect said device in said circuit to oppose the E. M. F. on said device to said standard E. M. F. during each interval when said E. M. F. to be measured is not connected to said device to thereby create a pulsating current flow of regular frequency in said circuit, means to amplify said pulsating current, and means energized by said amplified quantity to effect a balance between said opposed E. M. F.'s.

2,404,895
VARIABLE WING CONSTRUCTION
Edward F. Zap, Los Angeles, Calif.
Application January 19, 1942, Serial No. 427,237
8 Claims. (Cl. 244—42)

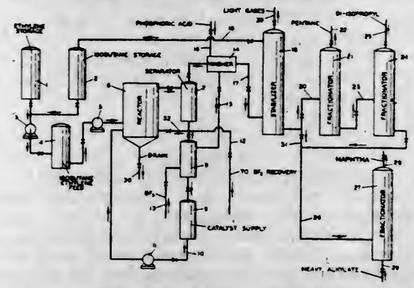


1. In an aircraft, the combination of: a main wing with a rear spar and spaced ribs forming rearward wing compartments; a plurality of flap panels mounted in said compartments, said flap panels being interconnected at their rearward portions to form a unitary flap assembly; support means at an end of said flap assembly; and intermediate support means between successive panels in said flap assembly, each of said support means being mounted on one of said ribs for movement between a retracted position largely inside the wing and an extended position largely outside the wing, the panels of said flap assembly being mounted on said side and intermediate support means for fore-and-aft movement relative thereto and relative to the wing between positions largely inside the wing with the support means retracted and positions largely outside the wing with the support means extended, each of said intermediate support means movably supporting two successive panels in the flap assembly.

2,404,896
POLISHING WAX COMPOSITIONS
David Aelony, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application December 31, 1942, Serial No. 470,873
8 Claims. (Cl. 106—8)

8. A polishing composition consisting principally of a mixture of natural and synthetic solid wax-like materials and a solvent therefor, said synthetic solid wax-like material being an N-acyl aminobiphenyl wherein the acyl group contains from 8 to 36 carbon atoms.

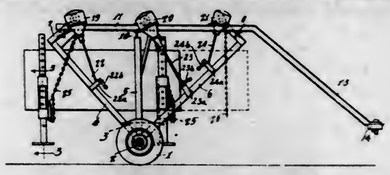
2,404,897
ALKYLATION PROCESS
William Nelson Axe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 24, 1942, Serial No. 466,762
5 Claims. (Cl. 260—683.4)



3. A process for reacting a low-boiling isoparaffin hydrocarbon with a low-boiling olefin hydrocarbon, which comprises contacting in an alkylation zone a mixture comprising such hydrocarbons, and containing a molar excess of said low-boiling isoparaffin, under alkylation conditions with a liquid catalyst comprising essentially an addition compound resulting from saturating with boron trifluoride an acid of phosphorus, intimately admixing hydrocarbons effluent from said alkylation zone with an acid of phosphorus to remove minor quantities of boron trifluoride associated therewith, separating the resulting acid of phosphorus-containing mixture from said hydrocarbons and adding to said mixture additional quantities of boron trifluoride to effect substantially complete saturation thereof, and passing the resulting material to said alkylation zone as catalyst.

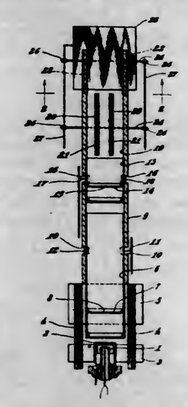
2,404,898
TRAILER STRUCTURE
Walter F. Aycock, El Centro, Calif.
Application July 1, 1944, Serial No. 543,131
2 Claims. (Cl. 212—142)

1. A trailer structure for bulky objects, comprising: a pair of longitudinally extending parallel disposed chassis beams spaced an appreciable distance apart, the forward portions of said beams being bent downwardly and converging toward each other and joined together; cross members joining the parallel portions of said chassis beams; downwardly converging sets of struts secured to the extremities of the cross members and joined together at their lower extremities to form parallel and vertically disposed side frames; a wheel journaled outboard of the lower joined ends of each set of struts; a series of winch shafts extending transversely of said chassis beams spaced an appreciable distance apart; a pair of flexible hoisting members wrapped directly about each of said shafts near the chassis beams, one end of each



hoisting member being secured to its shaft and the other end adapted to be attached to an object to be transported whereby said object may be suspended between said side frames and under said chassis beams; and means for operating said winch shafts individually to wind and unwind said pairs of flexible members.

2,404,899
CATHODE-RAY TUBE ASSEMBLY
John R. Beers, Briarcliff Manor, N. Y., assignor to North American Philips Company, Inc., Dobbs Ferry, N. Y.
Application April 3, 1944, Serial No. 529,350
5 Claims. (Cl. 250—162)

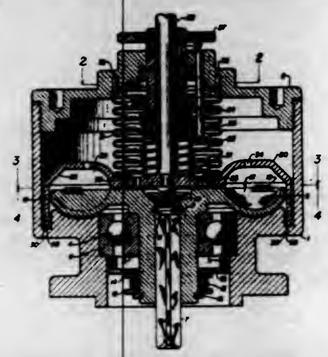


1. In a cathode ray tube, in combination, a cathode and grid assembly, insulating means mounted on said assembly, a first focussing means mounted on said insulating means, a hollow insulating member mounted on said first focussing means, a second focussing means mounted inside said hollow insulating member, at least one pair of slots in said hollow insulating member, and deflecting plates extending through and mounted in proper alignment by said slots.

2,404,900
HYDRAULIC SPEED CONTROL GOVERNOR
Bert G. Carlson, Gates Mills, Ohio, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application April 26, 1945, Serial No. 590,408
5 Claims. (Cl. 264—19)

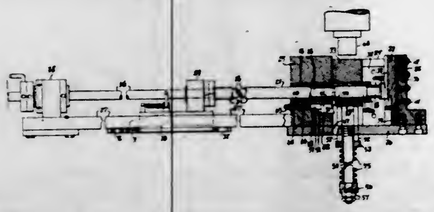
1. An hydraulic speed control governor comprising an housing to contain hydraulic fluid, a prime mover driven rotating impeller submerged in said fluid and being of bowl formation to pro-

vide a cavity divided by spaced vanes and a flat circular ring secured to said vanes intermediate their inner and outer extremities, a shell submerged in said fluid and having a concave surface disposed to be opposed to that of said impeller and carried by a shaft reciprocably mounted in said housing, said shell being adapted to



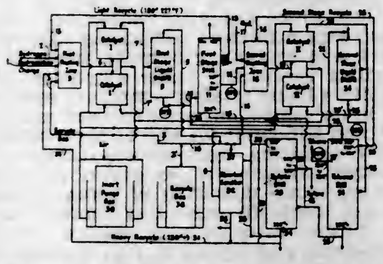
resist by reciprocation the hydraulic forces set up by the fluid disturbed by the rotation of said impeller, an expansible bellows secured to said housing and to said shell and partially submerged exteriorly and interiorly in said fluid and adapted to dampen vibrations transmitted to said shell and housing by the rotation of said spaced impeller.

2,404,901
TUBE-SEVERING MECHANISM
Anthony F. Cibs, Cleveland Heights, Ohio, assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation
Application August 25, 1942, Serial No. 456,017
1 Claim. (Cl. 164—47)



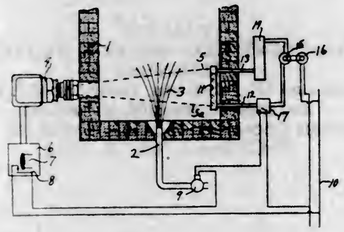
A tube-cutting mechanism, including in combination: a first cutter-holder; a first outer-cutter having a transverse cutting-edge at its inner end substantially conforming in size and shape to the outer perimeter of a first half of a tube to be cut and carried by the said first cutter-holder; a first inner-cutter located within the said first outer-cutter and having a transverse cutting-edge located at its inner end in substantial transverse alignment with the cutting-edge of the said first outer-cutter and substantially conforming in size and shape to the interior perimeter of the second half of the tube to be cut; a second cutter-holder movable in a direction transverse to the axes of the said first outer-cutter and the said first inner-cutter; a second outer-cutter carried by the said second cutter-holder in end-to-end relationship with the said first outer-cutter and having a transverse cutting-edge in substantial transverse alignment with the respective cutting-edges of the before-mentioned cutters and substantially conforming in size and shape to the exterior perimeter of the second half of the tube to be cut; a second inner-cutter disposed within the said second outer-cutter in end-to-end relationship with respect to the said first inner-cutter and having a transverse cutting-edge at its inner end located in substantial transverse alignment with the inner ends of the before-mentioned cutters and substantially conforming in size and shape to the inner perimeter of the first half of the tube to be cut, the said second inner-cutter being axially movable toward and away from the said first inner-cutter; the said second outer-cutter being cut away or relieved at its inner end opposite its transverse cutting-edge to provide a clearance-passage for the substantial radial discharge of a severed portion of the tube; a spring-pressed stripping-member secured to the said first cutter-holder and located outwardly of and in line with the clearance-passage in the said second outer-cutter; means for moving the said second cutter-holder and the second outer-cutter and inner cutter carried thereby in a direction transverse to the axis of the tube to be cut to thereby transversely sever the tube and transport the severed section thereof into position for engagement with the said stripping-member; and means for withdrawing the said axially-movable inner-cutter out of the portion of the tube within which it is normally located and after the completion of the tube-severing movement of the said second cutter-holder.

2,404,902
HYDROCARBON CONVERSION
William H. Claussen and Thomas M. Powell, Berkeley, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application July 21, 1942, Serial No. 451,748
10 Claims. (Cl. 260—673.5)



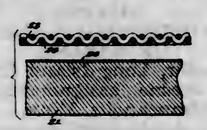
1. Process for the production of a substantially pure liquid aromatic which comprises subjecting a selected narrow boiling fraction from a paraffinic base petroleum to reforming, dehydrogenation and cyclization over a metal oxide catalyst containing as the active component an oxide of a metal selected from the group consisting of the metals in the left-hand columns of groups IV, V and VI of the periodic system at a temperature between 800° and 1050° F., a pressure of about 15 p. s. i. absolute and in the presence of a hydrogen containing carrier gas in the ratio of about two molecules of gas per molecule of hydrocarbon charge for a time sufficient to produce a liquid product falling substantially in the same range as the original charge and containing a significantly higher concentration of aromatic compounds than the charge, fractionally distilling this liquid product to produce a cut boiling substantially within the range of the original charge, subjecting said cut to a second treatment with a metal oxide dehydrogenation catalyst containing as the active component an oxide of a metal selected from the group consisting of the metal of the left hand columns of groups IV, V, and VI of the periodic system at a pressure higher than employed in the first stage, collecting the liquid product and sharply fractionating it to separate the desired aromatic in a substantially pure state.

2,404,903
AUTOMATIC BURNER CONTROL APPARATUS
Theodore A. Cohen, Chicago, Ill., assignor to Wheelco Instruments Company, Chicago, Ill., a corporation of Illinois
Application August 23, 1943, Serial No. 499,731
7 Claims. (Cl. 158—28)



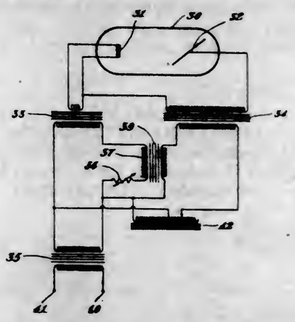
1. In an automatic burner control apparatus comprising a furnace having a refractory lined combustion chamber, a burner mounted in one wall of the furnace with its axis directed between a pair of adjacent side walls thereof, photo-electric supervisory means mounted in one side wall and arranged to observe the condition of the flame from said burner and having a predetermined sight, and a device on the other side wall overlying a portion of the refractory lining of said chamber presenting a cooled surface substantially coextensive with the entire cross section of said sight on the side of the axis of the burner and said flame opposite to said supervising means.

2,404,904
BONDING GLASS FABRICS TO INORGANIC SOLIDS
Howard W. Collins, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application November 6, 1940, Serial No. 364,539
4 Claims. (Cl. 154—128)



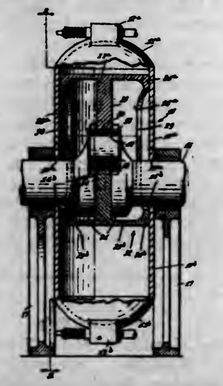
3. The method of bonding glass fabrics to the surfaces of metal, ceramic, glass, and other solid inorganic bodies, which comprises forming on the said surface a coating of vitreous material that matures at a temperature substantially as high as the temperature at which the fibers of the fabric fuse together, heating the coating of vitreous material to a plastic condition, and contacting the coating while plastic with a glass fabric provided on its coating-contacting face with vitreous material that matures at a temperature substantially below the maturing temperature of the first-named vitreous material.

2,404,905
ELECTRICAL CIRCUIT ARRANGEMENT
Harry Douglas Garretson, Whitestone, N. Y., assignor to North American Philips Company, Inc., Dobbs Ferry, N. Y.
Application January 31, 1944, Serial No. 520,524
3 Claims. (Cl. 250—103)



1. An electrical circuit arrangement comprising an electron-discharge device including an electrically heated cathode having an electron emissive coefficient responsive to the temperature thereof and an anode, circuit means to supply a current for heating said cathode, circuit means to supply a current for said anode, and means to maintain the anode current of said discharge tube at a substantially constant value comprising, an impedance in series with the cathode supply circuit and an impedance in said anode supply circuit, said impedances being mutually coupled and being mutually dependent in value and being adapted to vary the temperature of the cathode and the anode voltage in an inverse manner proportional to changes in the anode current.

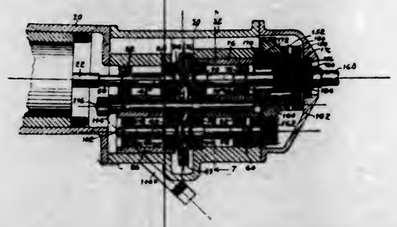
2,404,906
DOUBLE-ACTING ENGINE
Raymond E. Heald, Plainfield, Ind.
Application October 4, 1944, Serial No. 557,171
7 Claims. (Cl. 74—50)



1. A mechanical movement comprising a cylinder closed at its opposite ends, a crankshaft diametrically traversing said cylinder substantially midway between said closed ends, and a double-ended piston reciprocably mounted in said cylinder, said piston being formed to provide a closed head at each end and a cylindrical skirt connecting said heads, said skirt being formed with two diametrically-opposed, axially extended slots for the accommodation of said shaft, and with two further diametrically-opposed axially

extended slots angularly spaced substantially 90 degrees from said first-mentioned slots, said cylinder likewise being formed with a pair of slots registering with said further piston slots, a bushing rotatably mounted on the crank of said shaft located between said first-mentioned slots, and means located wholly within said piston and engageable with said bushing to provide a driving connection between said piston and said shaft, and conduit means registering with said cylinder slots.

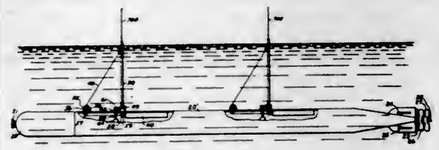
2,404,907
DRIVING MECHANISM
David Hans Heynau, Yellow Springs, Ohio
Application October 12, 1942, Serial No. 461,683
6 Claims. (Cl. 74—284)



1. A driving mechanism for transmitting various movements to driven means, said driving mechanism including a pair of variable speed driving means, each of said driving means including a pair of coaxially mounted conical driving members, a second pair of coaxially mounted conical driven members, one of the conical members of each pair being adjustably mounted for axial adjustment, a driving ring for transmitting power from the conical driving members to the conical driven members, each of the adjustably mounted conical members terminating in a tubular sleeve portion, a pair of tubular bushings mounted for axial movement, said bushing of one of the conical members being located on one side of the driving ring and the bushing of the other conical member being located on the opposite side of the driving ring, and connecting means including a notched tubular member, said connecting means holding the bushings in fixed spaced relation from each other, so that as one bushing is adjusted and with it its conical member, the other bushing is adjusted and with it its conical member, said connecting member having its longitudinal axis positioned in a plane determined by the axes of rotation of the conical members and substantially coincidental with the axis of rotation of the driving ring so as to cause the bushings and their respective conical members to be adjusted in parallel paths.

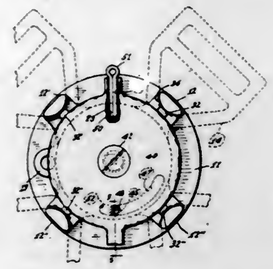
2,404,908
TORPEDO
Nevil Monroe Hopkins, New York, N. Y.; Raymonde B. Hopkins, executor of said Nevil Monroe Hopkins, deceased, assignor, by mesne assignments, to Raymonde Briggs Hopkins, Samuel Lloyd and Murray T. Quigg, as trustees
Substituted for abandoned application Serial No. 427,406, January 20, 1942. This application September 15, 1944, Serial No. 554,281
3 Claims. (Cl. 114—21)

1. A self-propelled, radio controlled torpedo comprising a war-head, a casing attached thereto, a source of power, an actuating mechanism within said casing fashioned to utilize said source of power, a radio signal receiving, detecting and amplifying equipment within said casing, an erectable antenna therefor, said erectable antenna normally positioned horizontally, means for



erecting the said antenna to a vertical position, and means whereby the energy of an amplified radio signal received by said antenna may alter the course of the said torpedo.

2,404,909
SINGLE POINT RELEASE FOR PARACHUTE HARNESS
Lawrence M. Johnston, Indianapolis, Ind., assignor to himself, as trustee
Application December 15, 1944, Serial No. 568,256
12 Claims. (Cl. 24—205)

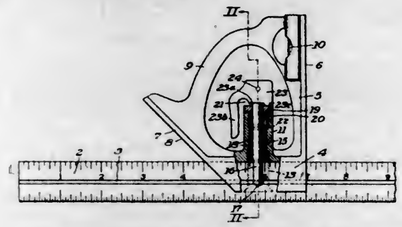


1. A connector for parachute harness comprising a housing, a plurality of pawls mounted in said housing upon stationary pivots and having their free ends located at spaced points about the perimeter of said housing, cam means rotatably mounted in said housing and engaging all of said pawls for positively moving said pawls concurrently in either of two opposite directions about their respective pivots, and means for positively locking said cam means against movement.

2,404,910
PLASTIC COMPOSITION AND METHOD OF MAKING
Auguste V. Keller, Long Island City, N. Y., assignor, by mesne assignments, to Howard Thompson, Minneapolis, Minn.
No Drawing. Application November 26, 1941, Serial No. 420,592
2 Claims. (Cl. 260—9)

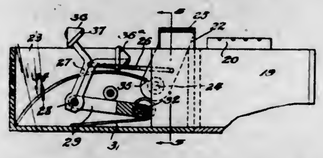
1. A plastic composition comprising cellulose treated with an ammoniated solution of a sugar capable of reacting with urea and formaldehyde and a metal salt capable of combining with the cellulose selected from the group consisting of the sulphates of copper, nickel, aluminum and zinc; the soluble form of chromic sulphate; the tri and tetra chlorides of titanium; zinc chloride; zinc dichromate; copper (cupric) formate; chromium and ferric oxalates, said treated cellulose being impregnated with a urea-formaldehyde condensation product.

2,404,911
MECHANIC'S SQUARE
Elmer I. King, Jeannette, Pa.
Application January 11, 1945, Serial No. 572,293
7 Claims. (Cl. 33—103)



1. In a tool having a rule which is longitudinally grooved and a slide having a face at an angle to the rule characterized by the provision of a locking means on the slide cooperating with the groove in the rule wherein the locking means comprises a pin in the slide movable transversely of the longitudinal axis of the rule, the pin having a terminal portion at one end to engage in the groove, a spring exerting pressure on the pin to move its said terminal into locking engagement with the walls of the groove, said spring and pin constituting the sole locking means for the rule, and means for moving the pin against the pressure of the spring to release the terminal of the pin from such locking engagement.

2,404,912
CONSECUTIVE-NUMBER-PRINTING APPARATUS
Glen N. Krouse, Columbus, Ohio
Application October 11, 1944, Serial No. 558,150
5 Claims. (Cl. 101—88)



1. The combination with a printing press having a reciprocable form-supporting bed, an impression cylinder and an ink-applying roll, a consecutive number printer adapted to occupy a type-receiving form positioned on the reciprocable press bed, said printer having a resiliently depressible plunger and a plurality of numeral bearing wheels rotatable in step by step order by the movement of said plunger, the plane of the operating end of said plunger when normally positioned being such as to contact said inking roll, of means automatically operative upon movement of said press bed to prevent the operating end of said plunger from directly engaging with said inking roll when the plunger is in registration with the latter and uncovering the operating end of said plunger when the latter is in registration with said operating cylinder, said means employing a housing adapted to be positioned in the type form contiguous to said number printer, a pivotally mounted frisket supported by said housing for movement into and out of registration with the operating end of said plunger during reciprocation of said bed, spring means for positively maintaining said frisket in its active position of registration with said plunger and in its inactive position out of registration with said plunger, pivotally movable motion-imparting devices connected with said frisket, and a stationary contact element supported by said press above said bed, said element being disposed in the path of movement of said devices to effect frisket-moving actuation thereof.

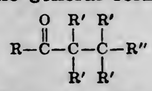
2,404,913
AGENT FOR REDUCING THE SURFACE TENSION OF LIQUIDS
Lee Leiserson, Rochester, N. Y., assignor to Virginia Smelting Company, West Norfolk, Va., a corporation of Maine
Application April 28, 1943, Serial No. 484,923
8 Claims. (Cl. 252—353)

EX. NO.	THE CONTROL	LIFTING AGENT ADDED	LIFTING AGENT CONCENTRATION	SINKING TIME IN SECONDS	AVERAGE SINKING TIME
	BOARD SYNTHETIC BUTYL NAPHTHALENE SULFONATE CONCENTRATION — 0.5 GRAMS PER LITER				
0		NONE		64, 60, 63	63 SECONDS
1		CAMPHOR	0.8 GRAMS LITER	37, 37, 39, 39	38 SECONDS
2		DIISOBUTYL KETONE (mixed methyl isobutyl ketone)	0.8 CC. LITER	38, 38, 39	38 SECONDS
3		1,1,3-TRIMETHYLCYCLOHEXANONE — 6	0.8 CC. LITER	38, 44, 41	41 SECONDS
4		METHYL n-AMYL KETONE	0.8 CC. LITER	43, 43, 43	43 SECONDS
5		ISOPHORONE	0.8 CC. LITER	54, 47, 46	49 SECONDS
6		METHYL n-BUTYL KETONE	0.8 CC. LITER	49, 52, 51	51 SECONDS
7		CYCLOHEXANONE	0.8 CC. LITER	34, 33, 32	34 SECONDS

1. A liquid, the surface activity of which has been changed, comprising a solution of an alkyl naphthalene sulfonate and a saturated aliphatic ketone selected from the group consisting of methyl-n-amyl ketone, diisobutyl ketone and methyl-n-butyl ketone.

2,404,914
MANUFACTURE OF CYCLIC HYDROCARBONS
William J. Mattox, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 29, 1943, Serial No. 508,235
9 Claims. (Cl. 260—668)

1. A process for the production of a cyclic hydrocarbon which comprises reacting at elevated temperatures in the range of 450 to 700° C. a ketone having the general formula:

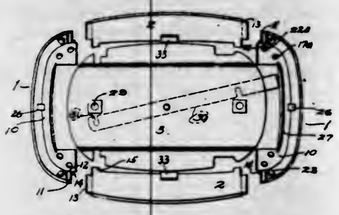


wherein R is selected from the group of hydrocarbon radicals consisting of an alkyl group containing at least two carbon atoms and the phenyl group, R′ is selected from the group consisting of an alkyl group and hydrogen and R″ is an alkyl group, said reaction taking place in the presence of a catalyst comprising an oxide of an element selected from the left-hand columns of groups IV, V and VI of the periodic table supported on an oxide carrier.

2,404,915
BREAD TOASTER STRUCTURE
Paul J. McCullough, St. Louis, Mo., assignor to Joseph Pavelka, St. Louis, Mo.
Application December 26, 1942, Serial No. 470,191
4 Claims. (Cl. 220—4)

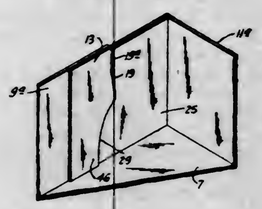
1. In a body for a toaster of the class described, separately formed, substantially rigid side and end members arranged end to end and having up-

standing walls and forming an oblong open frame-like base, the side members being spaced apart opposite to each other and the end members being spaced apart opposite to each other, a housing having upright walls slidable vertically into overlapping relation with the inner faces of said base member walls, means securing the housing to two opposite base members, said two housing-secured base members having lips extending outwardly of the other two base members and



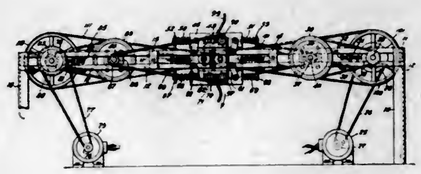
holding the latter against movement away from the housing, the base members secured to the housing having elements extending beneath elements on the other base members and holding the latter against movement downwardly relative to the housing and the base members secured thereto, and elements on the housing extending over elements on said other two base members and holding the latter against movement upwardly relative to the housing and the members secured thereto.

2,404,916
BOX
Reginald B. Meller, Oakland, Calif.
Application October 24, 1944, Serial No. 560,111
3 Claims. (Cl. 229—35)



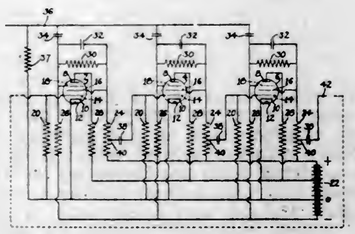
1. A box having a self-locking corner comprising a bottom section, a side wall section and an end wall section, a wing extending from said end wall section adjacent said side wall section and separated by a cut from said side wall section, said side wall section having a cut in the longitudinal edge thereof in a direction transverse to a circle having its center at the corner of said bottom section to form a locking tab in the plane of said side wall section, and said wing having a cut transverse to said circle and substantially normal to said side wall section cut, and another cut extending from an extremity of said wing cut to said separating wing cut substantially along an arc through approximately the inner extremity of said side wall cut, to define with said wing cut and separating cut, a locking tab in the plane of said wing adapted to be wedged through said side wall section cut during folding of said blank into box formation to automatically interlock with said side wall section tab in edge to edge engagement therewith and with said tab in engagement with said bottom to support positively said end wall section.

2,404,917
ABRADING MACHINE
Elmer Conda Murdock, Statesville, N. C.
Application July 27, 1945, Serial No. 607,392
4 Claims. (Cl. 51—140)



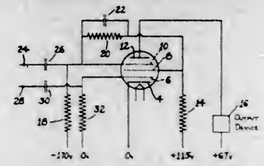
3. An abrading machine comprising a pair of endless abrasive belts, a pair of rotatable means for supporting the belts for rotation, means for urging the proximate ends of the belts towards each other so that a workpiece can be passed therebetween to finish the same, a pair of resiliently mounted feed rollers disposed on each side of the rotatable means on which the proximate ends of the abrasive belts are mounted for feeding a workpiece between the proximate ends of the abrasive belts and means for driving the feed rollers so that their proximate surfaces move in the same direction and for also driving the abrasive belts so that their proximate ends rotate in the same direction but in a direction opposite to the direction of rotation of the proximate surfaces of the feed rollers.

2,404,918
COUNTING SYSTEM
Wilcox P. Overbeck, Waltham, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application May 1, 1940, Serial No. 332,853
13 Claims. (Cl. 250—27)



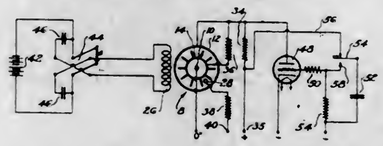
1. A counting system for counting electrical impulses comprising a series of electronic circuits, each of said circuits having independently two conditions of stability, means in each circuit responsive to an electrical impulse to destroy one of said conditions of stability, common input means for applying a succession of electrical initiating impulses to all of said circuits, each impulse acting to destroy said first condition of stability in any of said circuits in which said first condition of stability exists without affecting the second condition of stability in the other circuits, and connections for applying a potential variation produced by destruction of the first condition of stability in any such circuit to the next succeeding circuit to establish the first condition of stability in said succeeding circuit.

2,404,919
ELECTRONIC SWITCHING DEVICE AND CIRCUIT THEREFOR
Wilcox P. Overbeck, Waltham, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application May 1, 1940, Serial No. 332,854
3 Claims. (Cl. 250—27)



1. An electronic switching circuit comprising a tube having a cathode, a control grid, a screen grid, a suppressor grid, and an anode, the control grid and screen grid having wires in alignment to determine electronic beams, an anode circuit, a screen grid circuit including a source of positive potential and a resistor, a coupling circuit between the screen grid and the suppressor grid, and an input circuit for applying pulses to the control grid to effect changes in the screen and suppressor grid potentials.

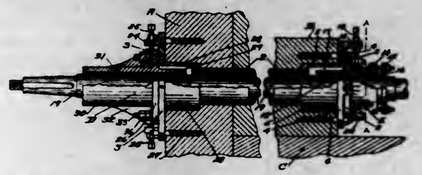
2,404,920
ELECTRONIC DISCHARGE APPARATUS
Wilcox P. Overbeck, Waltham, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 27, 1940, Serial No. 358,683
21 Claims. (Cl. 315—323)



1. In an impulse counting or recording system, a gas-filled envelope, an anode, a cathode, a grid between the cathode and anode having dividing means to form separate discharge cells in a portion of the gaseous space, anode-current-limiting means to limit the discharge to less than all of the cells, means for applying tangential forces to the ions to bias the discharge in any cell toward one side of the cell and to cause the discharge to spread beyond the dividing means over the adjacent cell, and means for reducing and re-establishing the current flow in a sufficiently short time, related to the de-ionization time of the gas, to shift the discharge to said adjacent cell.

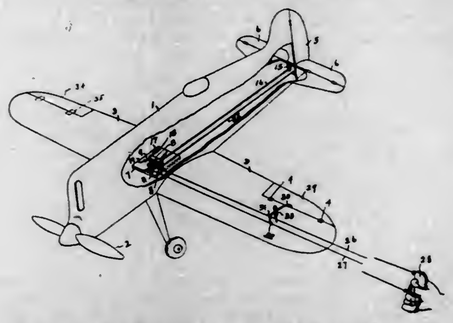
16. An electronic discharge device comprising a gas-filled envelope, an anode, a cathode, a grid forming a plurality of discharge paths which are independent of each other over a substantial portion of their lengths, means for applying a positive potential to the anode, current-limiting means to limit the discharge to less than the full number of paths, means for applying tangential forces to the ions in any ignited path to cause the discharge to overlie the adjacent path, pulsing means to effect a reduction and re-establishment of anode potential in a time interval less than the de-ionization time of the device, and a connection between the anode and the grid to effect a similar reduction and re-establishment of grid potential.

2,404,921
ADJUSTABLE PROPELLER SHAFT BEARING
Howard Oxsen, Berkeley, Calif.
Application November 29, 1943, Serial No. 512,207
3 Claims. (Cl. 308—59)



1. The combination with the stern structure of a vessel of a pair of bearing retainers rigidly secured to the stern structure one on the exterior side of said structure and one on the inner side, a stern bearing supported by the exterior bearing retainer, a combination bearing and stuffing box supported by the inner bearing retainer, a propeller shaft extending through the bearing retainers and the bearings supported thereby, means for independently adjusting each bearing both vertically and laterally with relation to its bearing retainer, and means for forming a fluid tight seal between each bearing and its retainer.

2,404,922
MINIATURE SELF-PROPELLED AIRPLANE
William R. Padgett, Pasadena, Tex.
Application February 20, 1945, Serial No. 578,927
6 Claims. (Cl. 46—77)

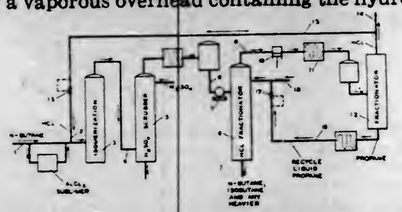


1. In a miniature, self propelled, airplane having a fuselage, laterally extended wings on the fuselage one of which is provided with an aileron which is hinged thereto, a control line attached at one end to the airplane and whose other end is adapted to be held by an operator on the ground and an arm rigidly connected to the aileron operatively connecting the aileron with the control line whereby the aileron will be moved downwardly as the wing is lowered and moved upwardly as the wing is elevated.

2,404,923
ISOMERIZATION OF BUTANE
Robert J. Patterson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 24, 1944, Serial No. 541,917
7 Claims. (Cl. 260—683.5)

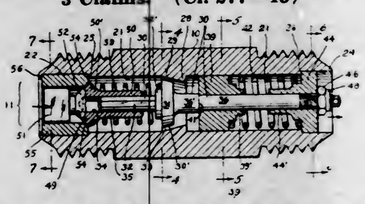
1. In the process of isomerizing a butane to an isomeric butane by passing a butane in admixture with hydrogen chloride as a promoter into contact with aluminum chloride as a catalyst under conditions such that isomerization of butane to an isomeric butane is the principal reaction, and withdrawing a vaporous effluent, the improvement which comprises cooling and condensing said vaporous effluent, passing a resulting

condensate to a hydrogen chloride fractional distillation zone and there separating it into a vaporous overhead containing propane, hydrogen chloride and lighter components and a bottom fraction containing butanes and any heavier components, liquefying said overhead, passing the resulting liquid into a fractional distillation zone and there fractionally distilling it to separate it into a vaporous overhead containing the hydrogen



chloride and lighter components and substantially free from propane and a bottom fraction containing substantially all of the propane and substantially free from hydrogen chloride, recycling said last-named overhead to the isomerization step as a source of hydrogen chloride promoter, and recycling said last-named bottom fraction to the top of said hydrogen chloride fractional distillation zone and employing same as liquid reflux therefor.

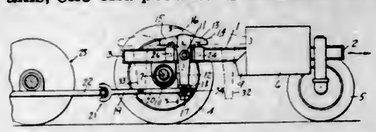
2,404,924
FLUID CONTROL APPARATUS
Columbus R. Sacchini, Euclid, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application January 29, 1943, Serial No. 473,911
3 Claims. (Cl. 277—45)



1. In a fluid fuse, a casing having a passage extending therethrough from end to end, a valve means comprising a frusto-conical valve seat surface in said passage intermediate its ends and a valve plunger slidably mounted in said passage for axial movement with respect to said casing, said plunger having a frusto-conical face portion complementary to and adapted to seat upon said seat surface and when so seated closing the passage through said casing, biasing means normally biasing said face portion and said valve seat surface apart to define a tapered annular orifice, the biasing force of said biasing means being less than the axial frictional force of said fluid on said face portion when fluid flows at a rate above a predetermined value through said tapered orifice, whereby said orifice is closed by said fluid friction when the rate of flow of fluid through said orifice exceeds said predetermined value, and a second valve means contained within said passage in series with said first mentioned valve means, said second valve means being normally biased to a closed position and movable to an open position in response to fluid pressure.

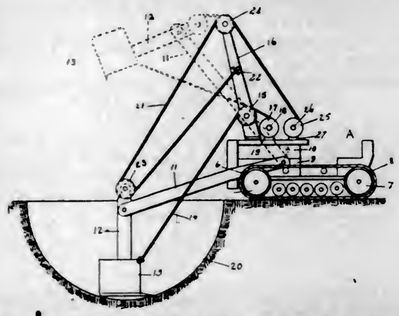
2,404,925
COUPLING DEVICE
Christian H. Sauer, Chico, Calif.
Application June 5, 1944, Serial No. 538,830
4 Claims. (Cl. 280—33.44)

1. In combination with a tractor and a load to be moved over the ground thereby, a coupling for connecting said load with said tractor, said coupling including means for transmitting the force for moving said load to said tractor in a generally downward direction for increasing the traction between said tractor and the ground, said coupling comprising a lever pivotally secured to said tractor for swinging about a horizontal axis, one end portion of said lever extend-



ing downwardly from said pivot, means connecting the lower end of said end portion with said load, the opposite end portion of said lever extending generally horizontally from said pivot for swinging generally downwardly upon movement of the tractor over the ground for placing said means under tension, and means rigid with said tractor for limiting said downward movement of said opposite end portion.

2,404,926
EARTH EXCAVATOR
Elmer Schmacht, Rock Island, Ill.
Application February 3, 1944, Serial No. 520,907
2 Claims. (Cl. 214—138)

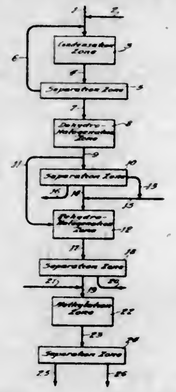


1. In combination with a tractor supported on and driven by endless traction treads, for imparting a universal quick-turning ground action to the tractor, a motor casing mounted on said tractor, with a deck-like roof, a boom pivoted at one side of the tractor, projected forwardly therefrom, an earth moving apparatus supported from the free end of said boom, capable of being loaded when being moved away from the tractor, and exchangeable with similar apparatus capable of being loaded when moved toward the tractor, cable-winding mechanism supported on said deck, cable systems connecting said earth moving apparatus with said winding mechanism, for the proper handling of said apparatus, and a spar, projected upwardly from said deck, upon which the cable systems are operatively supported.

2,404,927
MANUFACTURE OF ISOPARAFFINS
Louis Schmerling and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 15, 1943, Serial No. 475,963
13 Claims. (Cl. 260—676)

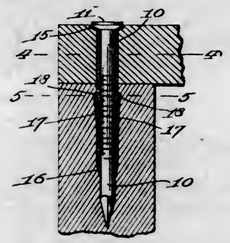
1. A process for the manufacture of isoparaffin hydrocarbons which comprises reacting an alkyl

halide with a mono-olefin to produce a higher molecular weight alkyl halide, successively dehydrohalogenating said alkyl halide to produce



an olefin, rehydrohalogenating said olefin to produce an isomer of said higher molecular weight alkyl halide and substituting a methyl group for the halogen atom in said last-named alkyl halide.

2,404,928
NAIL OR DOWEL PIN ANCHOR
Joseph J. Schutten, Yucaipa, Calif., assignor to Alexander Frichauf, Los Angeles, Calif.
Application February 9, 1945, Serial No. 576,934
1 Claim. (Cl. 85—23)



A nail or dowel pin anchor comprising a longitudinally split tubular body formed of thin resilient material, longitudinally disposed strips cut from said body with the lower ends of said strips attached thereto, serrated lips projecting inwardly from the upper ends of said strips, an inclined flange projecting outwardly from the upper end of said body and the lower end of which body is bevelled inwardly.

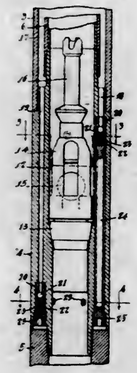
2,404,929
VINYL ESTERS
Raymond B. Seymour, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application July 8, 1943, Serial No. 493,863
17 Claims. (Cl. 260—67)

10. A vinyl ester of halogenated beta-formylacrylic acids having the general formula:

$$HCO.CR{:}CR'.COO.CH{:}CH_2$$

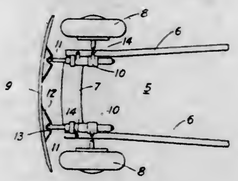
where substituents R and R' are selected from the group consisting of Cl and Cl, Br and Br, Cl and Br, Br and Cl, H and Br, H and Cl, Br and H, Cl and H.

2,404,930
WELL PUMP
Wilson T. Smith, Los Angeles, Calif.
Application August 21, 1945, Serial No. 611,743
6 Claims. (Cl. 103—204)



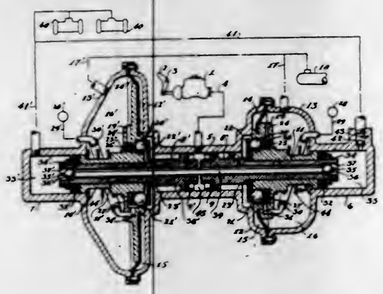
1. A well pump comprising: a pump unit including a standing valve; production tubing connected with said pump unit; flushing fluid tubing, the lower end jacketing said pump unit; a first set of jet elements communicating between said flushing fluid tubing and the interior of said pump unit above said standing valve, and a second set of jet elements communicating between said flushing fluid tubing and the interior of said pump unit below said standing valve.

2,404,931
RECOIL MECHANISM
Somervell B. Somervell, New York, N. Y., assignor to Kurtiss P. Schenke, New York, N. Y.
Application August 3, 1943, Serial No. 497,269
7 Claims. (Cl. 293—55)



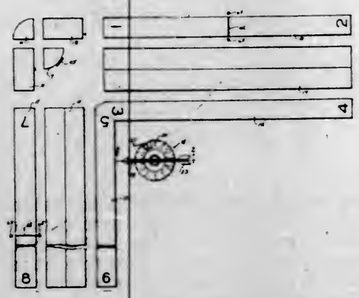
1. A recoil mechanism for a motor vehicle having a bumper and a chassis frame comprising a multi-chambered cylinder attached to said frame, a hollow piston reciprocable within a chamber of said cylinder, an impact transmitting element connecting said bumper with said hollow piston, a resiliently opposed floating piston reciprocable within a further chamber of said cylinder, a main fluid chamber in said cylinder, a second floating piston resiliently carried within said hollow piston, restricting means disposed between said first floating piston and said main chamber adapted to initiate absorption of initial movement of said hollow piston upon transmission of an impact thereto and porting means cooperating with said main chamber initiated by further movement of said hollow piston adapted to cause said second floating piston to resiliently oppose said further movement.

2,404,932
BRAKE BOOSTER
William Stelzer, East Orange, N. J.
Application December 23, 1943, Serial No. 515,328
9 Claims. (Cl. 60—54.5)



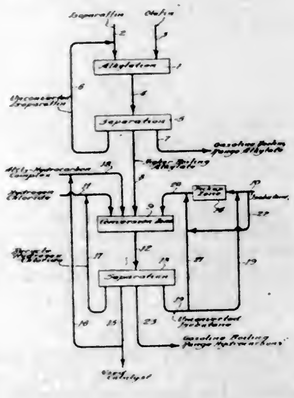
1. In a hydraulic braking system having wheel cylinders to actuate the brakes, a master cylinder, a power operated low pressure booster connected to said master cylinder to receive fluid therefrom and having means to transmit fluid under higher pressure to said wheel cylinders, a power operated high pressure booster connected to said master cylinder to receive fluid therefrom and having means to transmit fluid under higher pressure to said wheel cylinders, a control device for each of said boosters operable by fluid displaced from said master cylinder, and so constructed and arranged that operation of said low pressure booster occurs prior to operation of said high pressure booster, and a check valve intermediate said wheel cylinders and said low pressure booster to prevent the return of fluid from the former to the latter.

2,404,933
AIRPORT
Carl Stockstrom, Kimmswick, Mo.
Application September 28, 1944, Serial No. 556,267
5 Claims. (Cl. 177—352)



4. An airport having a plurality of runways each provided with characters at the opposite ends thereof which identify said opposite ends of said runways, the characters at the opposite ends of each runway being different and the characters of the different runways being different, and wind-actuated means operable to display a character corresponding with the character at one or the opposite end of one or another of said runways for directing an incoming aircraft to a particular runway and for indicating the direction of approach of an aircraft to the designated runway, said wind-actuated means including a member movable in response to change in the direction of the wind for indicating the direction of the wind.

2,404,934
CONVERSION OF HYDROCARBONS
Ralph B. Thompson, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 25, 1943, Serial No. 492,215
10 Claims. (Cl. 260—683.4)



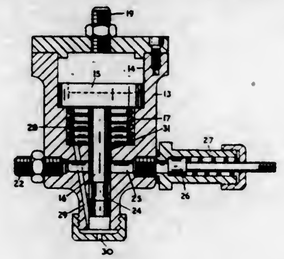
1. A process for the production of more valuable lower boiling hydrocarbons from relatively high boiling isoparaffin-olefin alkylation products which comprises reacting said relatively high boiling alkylation products with isobutane in the presence of an aluminum chloride-hydrocarbon complex.

2,404,935
BEDDING FOR INFANTS' CRIBS
Eliza J. Weisel, Van Nuys, Calif.
Application April 14, 1943, Serial No. 482,998
2 Claims. (Cl. 5—343)



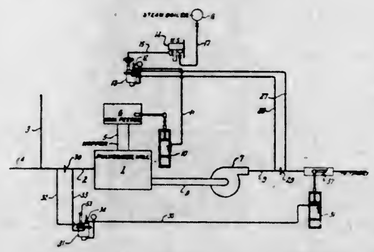
1. A garment for an infant reposing in a crib comprising, a strap stretched transversely across the crib and attached to the side members of the crib frame, bands fastened to said strap at the center thereof, a sleeping bag the upper edge of which is shaped to fit under the arms of an infant and having perforations at the upper edge thereof for receiving said bands, the latter having elements for fastening the ends thereof together to form a loop by means of which the bag is freely anchored to the strap, a fabric loop fastened to the bottom edge of the bag, and a strap passing through said loop and attached to the crib frame at the foot end corners thereof.

2,404,936
EMERGENCY RELIEF VALVE FOR USE IN AUTOMATICALLY BY-PASSING A HYDRAULIC UNIT OR THE LIKE
Henry P. Wills, Ottawa, Ontario, Canada, assignor to Armstrong Siddeley Motors Limited, Coventry, England
Application February 8, 1945, Serial No. 576,808
In Great Britain September 27, 1944
2 Claims. (Cl. 137—153)



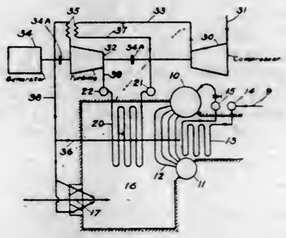
1. For use in automatically by-passing a hydraulic unit or pipeline in the event of damage or leakage thereto causing a predetermined drop in the hydraulic pressure, an emergency relief valve having a main plunger, means for applying the hydraulic pressure to one face thereof, the plunger being biassed against the hydraulic pressure by a weaker spring, a main valve, controlled by the plunger, which is operated when the hydraulic pressure falls below the spring pressure and the plunger moves accordingly, a spring-biassed auxiliary plunger the supply of a fluid pressure to which is controlled by the operation of said main valve, and a by-passing valve connected to said auxiliary plunger so as to be actuated on the operation of said main valve.

2,404,937
SYSTEM OF CONTROL FOR PULVERIZER MILLS
George R. Anderson, Mount Lebanon, Pa., assignor to John M. Hopwood, Mount Lebanon, Pa.
Application November 25, 1943, Serial No. 511,685
3 Claims. (Cl. 110—103)



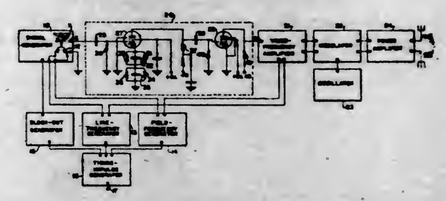
1. In a boiler furnace a pulverizing mill, a system of control for regulating the air supplied to the mill comprising a flow orifice in the air supply line and a damper in the combined fuel and air delivery line, an operator for said damper and an air flow regulator for said operator, said regulator being connected across the air inlet orifice and being set to maintain a constant pressure drop across said orifice by adjustment of said damper.

2,404,938
GAS TURBINE PLANT
Wilbur H. Armacost, Scarsdale, and David M. Schoenfeld, New York, N. Y., assignors to Combustion Engineering Company, Inc., New York, N. Y.
Application February 10, 1945, Serial No. 577,245
3 Claims. (Cl. 60—59)



1. In a power plant having a gas turbine, a fluid compressor and a steam generator unit including an associated furnace, fuel burner and a setting for confining the flow of the products of combustion therethrough; first and second fluid heaters for heating the compressed fluid; conduits for conveying compressed fluid from the compressor to the first heater, from the first to the second heater, from the second heater to the turbine, from the turbine exhaust to first heater in out of contact relation to the compressed fluid flowing therethrough thereby cooling said exhausted fluid, and from the second heater to the burner, said last conduit having a branch delivering a portion of the fluid into the setting at a location where the products of combustion have been cooled to substantially the same temperature of the delivered fluid.

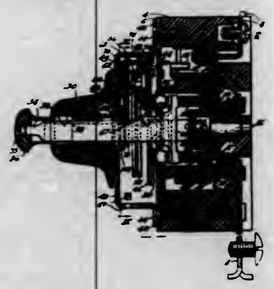
2,404,939
TELEVISION SIGNAL-TRANSLATING SYSTEM
William F. Bailey, Port Washington, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application February 27, 1942, Serial No. 432,269
8 Claims. (Cl. 178—7.2)



1. A television signal-translating system comprising, a signal-translating channel having an input circuit and an output circuit, means for applying to said input circuit a composite signal derived by scanning continuous image lines of an image to be translated and comprising video-signal components within a predetermined frequency range corresponding to images to be translated in said system and undesirable shading components having frequencies within said range and related to a frequency of scanning of said image, and means in said channel having a frequency characteristic also related to said scanning frequency for effectively removing from said

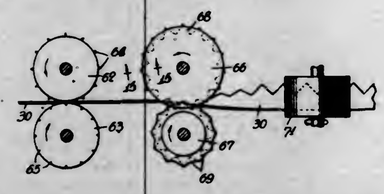
composite signal at least one lower frequency component of said shading components and for translating to said output circuit the resultant signal which includes video-signal components having frequencies below said lower frequency component and is substantially free from each said removed shading component.

2,404,940
CIRCUIT CONTROLLER
James F. Beal, Renfrew, Ontario, Canada, assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut
Application April 6, 1943, Serial No. 481,985
27 Claims. (Cl. 200—5)



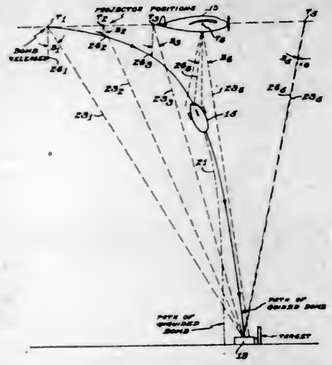
1. In a switch having a plurality of contacts, contacts actuating means movable in opposite directions from an "off" position in which said contacts are open, to a plurality of spaced operative positions in each of which at least some of said contacts are closed, indexing means operative to frictionally maintain said actuating means at each position thereof, resilient means biasing said actuating means to said "off" position, latch means automatically operable to maintain said actuating means at any of said operative positions to which it is adjusted, and means for simultaneously releasing said latch means and indexing means to permit said resilient means to restore the switch to "off" position.

2,404,941
APPARATUS FOR FORMING AN ORNAMENTAL TRIMMING
Abraham Beckelman, New York, N. Y.
Application August 18, 1944, Serial No. 550,112
7 Claims. (Cl. 223—44)



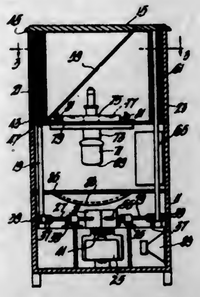
1. In an apparatus for forming a length of ornamental trimming having a serrated edge, a pair of complementary creasing dies adapted to engage between them a transversely-slitted region of an elongated strip, said dies having opposed faces contoured to double said strip upon itself along a longitudinal axis intersecting said slit and to fold the material directly adjacent to said slit inwardly upon itself into sandwiched position between the resultant two plies.

2,404,942
STEERING DEVICE
Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 6, 1940, Serial No. 364,483
16 Claims. (Cl. 102—3)



12. The method of controlling the trajectory of an object falling from an aircraft to a target on the ground including the steps of generating a beam of radiant energy, directing said beam downwardly from said aircraft, establishing and maintaining a line of sight between said aircraft and said target, varying the angle between said beam and said line of sight throughout a period coinciding with the time required for said object to fall from said aircraft to said target, receiving said radiant energy at said object, and utilizing said received energy to maintain said object in said beam so that said object is directed to said target.

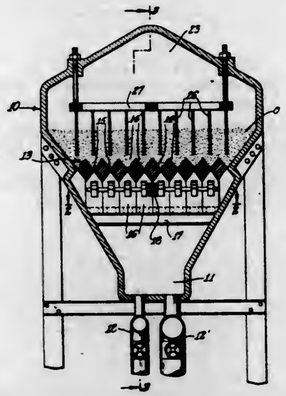
2,404,943
VIEWING DEVICE
Ray Victor Beshgetoor, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 18, 1944, Serial No. 559,201
2 Claims. (Cl. 88—24)



1. A cabinet structure for viewing electro-optical images on an image producing tube positioned internally of the cabinet comprising a main cabinet body section adapted to have the image producing tube unit included therein, an optical system to direct the produced light image along a predetermined path within the cabinet, a movable cabinet top section for the cabinet, said top section being adapted in its depressed position to telescope within the main cabinet body section, an image viewing screen element and an inclined reflecting surface each fixedly supported

relative to the other and carried within the said movable section and movable integrally therewith, said reflecting element being arranged to reflect the light image directed through the cabinet upon the viewing screen surface, and means for raising and lowering the top cabinet section relative to the main body of the cabinet, means for limiting the upward motion of the movable section so that when said movable section is brought to its maximum elevated position the said viewing screen surface is exposed relative to the main cabinet body section and the optical path length of the optical system is such as to focus sharply the produced image upon the screen for viewing.

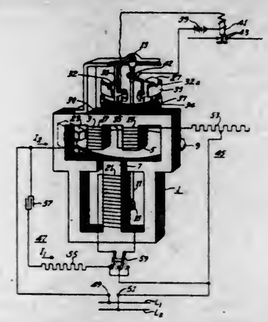
2,404,944
APPARATUS FOR REDUCTION OF OXIDES
Herman A. Brassert, Washington, Conn., assignor to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois
Application April 29, 1943, Serial No. 484,960
6 Claims. (Cl. 266—21)



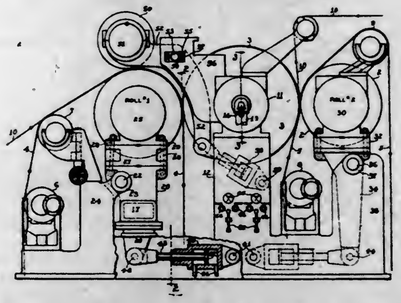
1. In apparatus for reducing finely-divided metallic oxide material, the combination of a multiple channel hearth having gas apertures therein, means for supplying reducing gas from beneath the hearth for flow through the apertures thereof to reduce the same and simultaneously maintain the material in a state of suspension so that it flows along the hearth, an adjustable dam at the discharge end of the hearth for adjusting the depth of the bed, and means for adjusting the volume and velocity of the gas supplied to the hearth in accordance with increase or decrease of bed depth resulting from raising or lowering said dam.

2,404,945
ELECTRICAL RELAY
Herbert J. Carlin, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 18, 1944, Serial No. 527,059
12 Claims. (Cl. 175—320)

1. In an electrical relay device which is responsive to a predetermined variable characteristic of a variable quantity, means effective when energized by an alternating quantity for producing a pair of alternating electrical components having a phase relationship dependent on a predetermined variable characteristic of a quantity, said electrical components being in phase for a predetermined value of the quantity, and translating means responsive to the passage of said phase relationship between said alternating electrical components through said in-phase condition, whereby said translating means is responsive to the predetermined variable characteristic.



2,404,946
PAPERMAKING MACHINE PRESS SECTION
Everett W. Clem, Shrewsbury, Mass., assignor to Rice Barton Corporation, Worcester, Mass., a corporation of Massachusetts
Application December 3, 1943, Serial No. 512,757
6 Claims. (Cl. 92—49)

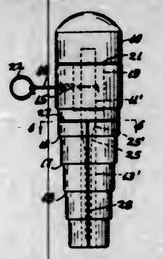


1. A paper making machine press roll assembly comprising a movable pressure roll and an associated roll arranged to contact peripherally with their axes in parallel and near a horizontal plane, two pivoted levers beneath the ends of the pressure roll, bearing supports for the pressure roll carried on the upper ends of the levers, pivotal supports for the levers having a common axis beneath the pressure roll and providing for a substantially horizontal swinging movement of the roll, fluid pressure actuated piston and cylinder mechanism connected to swing each lever and move the pressure roll laterally in either direction and a fluid pressure delivery system including a control device to cause said swinging movement and to hold the rolls in contact under a desired pressure.

2,404,947
TOY TOP
Ralph P. Cordon, New York, N. Y.
Application May 20, 1944, Serial No. 536,446
2 Claims. (Cl. 46—64)

1. A toy top, comprising a dome-shaped head, an axial pin projecting from the bottom of said head, a cylindrical hand piece for rotatively supporting said head and having an axial opening through which said pin passes, a string for spinning said top passing through an opening in the

side of said hand piece and attached to and wound around said pin, and means for causing said head to bob up and down during its spinning



operation, including compressible resilient portions on said hand piece, and a tapered portion on said pin engaging a complementary socket portion on said resilient portions.

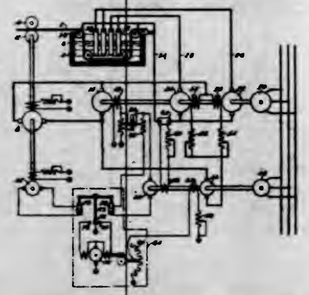
2,404,948

CONTROL OF ELECTROLYTIC PROCESSES

Charles P. Croco, Mount Lebanon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 8, 1942, Serial No. 468,227

11 Claims. (Cl. 204—205)



1. In a control system for an electrolytic process, an electric motor for causing a length of material to travel through the electrolytic process, a variable voltage generator for supplying power to the motor, means for varying the current in the electrolytic process in accordance with the voltage applied to the electric motor by said generator, and means for varying the current flow in the process in response to variations in the ratio between the speed of travel of the length of material through the process and the density of the current in the process.

2,404,949

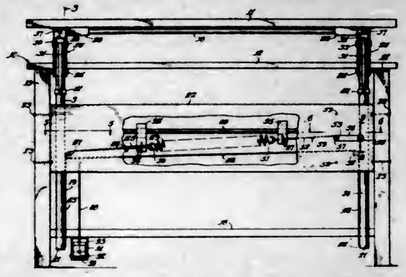
ADJUSTABLE DRAFTING STAND

Harold L. De Lisle, deceased, late of Sheboygan, Wis., by William H. Murphy, executor, Chicago, Ill.

Application September 17, 1942, Serial No. 458,684

10 Claims. (Cl. 45—131)

1. In a drafting stand including a pair of vertically movable posts, the combination including, a casing having spaced apertures, said posts passing through the apertures and slidable with respect to the casing, a pair of brake members hinged in the casing and adapted to frictionally engage the posts to clamp them against movement, a pair of aligned movable bars supported within the casing by said brake members respectively, a link intermedially pivoted in the casing and articulated at each end with said bars respectively, a spring anchored in said casing, means connecting the spring and link, said spring means urging the link in a direction to press the bars apart whereby to urge the brake members



into frictional engagement with said posts, and a manually operable lever secured to said link in said casing and adapted to rotate the link in the opposite direction against the force of said spring to release the brake members.

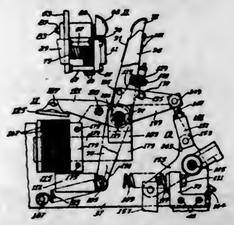
2,404,950

CIRCUIT BREAKER

Robert C. Dickinson, Wilkinsburg, William H. Stuellein, East McKeesport, and Fritz E. Florschutz, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 15, 1942, Serial No. 458,358

18 Claims. (Cl. 200—89)



1. In a circuit breaker, relatively movable contacts, a switch member mounted on a fixed pivot and movable to open and close said contacts, operating mechanism for said switch member including an operating member operable to effect closing movement of said switch member, a latch member having its free end interposed between the switch member and the operating member for connecting said switch member to said operating member, said latch being supported independently of said operating member and said switch member, a trip device including electroresponsive means normally restraining said latch in latching position and being operable in response to predetermined circuit conditions to cause said latch to be moved to unlatching position to thereby effect opening of said contacts.

2,404,951

SYSTEM FOR THE REMOTE CONTROL OF INTERNAL-COMBUSTION ENGINES AND CLUTCHES EMPLOYED IN SHIP PROPULSION

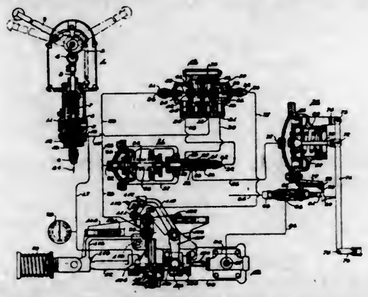
Robert R. Donaldson, Forest Hills, Pa., assignor to John M. Hopwood, Mount Lebanon, Pa.

Application May 26, 1943, Serial No. 488,478

8 Claims. (Cl. 192—01)

1. In combination, a clutch operator and a throttle operator, a control system comprising

pressure fluid means for actuating said operators in predetermined sequence, valve mechanism operative by said clutch operator when in clutch disengaging position for disconnecting the pressure medium from the throttle operator, and valve means operative by said throttle operator for de-



livering pressure fluid to the clutch operator when the throttle operator is disconnected from its fluid pressure source said valve mechanism re-connecting the fluid pressure source to the throttle operator when the clutch operator is in clutch engaging position.

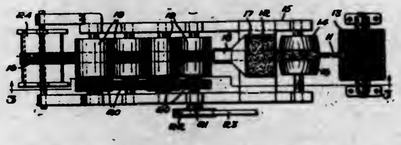
2,404,952

METHOD OF MAKING PACKING

John J. Fiechter, Willow Grove, Pa.

Application February 9, 1943, Serial No. 475,292

2 Claims. (Cl. 154—33.1)



1. In the method of making a lubricant-impregnated braided packing which is characterized in that the several strands of fibrous material composing the packing are individually impregnated with the lubricant prior to being braided together, the steps which comprise first spreading each strand laterally and drawing it under tension through the lubricant, and thereafter and prior to braiding the strands together mechanically forcing the lubricant into and through the fibres of each opened strand.

2,404,953

ELECTRIC DISCHARGE LAMP

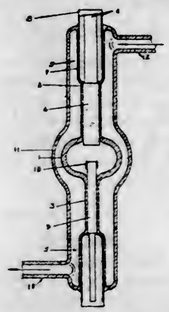
Victor J. Francis, Aylesbury, and Evan H. Nelson, Harrow Weald, England, assignors to General Electric Company, a corporation of New York

Application January 1, 1945, Serial No. 570,892

In England July 2, 1943

2 Claims. (Cl. 176—122)

1. A high-pressure electric discharge lamp comprising a globular envelope of vitreous material and designed for operation under liquid cooling conditions with a power input in excess of 60 watts per square centimeter of the external surface of said envelope and a total power input in excess of 4 kw., a predetermined amount of mercury in said envelope which is completely vaporized during operation of the lamp, a thin-walled elongated tubular neck portion projecting from said envelope, an electrode in the form of an elongated stout rod of refractory metal which fits closely within but is not hermetically sealed to said neck portion and terminates, at its inner end, close to the inner wall of the envelope, current conductor means connected to the outer end of said electrode and hermetically sealed in the outer end of said envelope neck portion, a cooperating electrode



sealed in the envelope at a point opposite the first-mentioned electrode, the arc gap between said electrodes being shorter than the diameter of the envelope in any plane normal to the shortest straight line between said electrodes.

2,404,954

AIRCRAFT POWER PLANT

Frank W. Godsey, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 2, 1943, Serial No. 474,475

4 Claims. (Cl. 60—35.5)



1. Propulsion-apparatus for aircraft, comprising the combination, with the aircraft, of a high-speed motive-means having a rotor-axis extending in the approximate direction of propulsion of the aircraft, a coaxial spinner disposed in front of the motive-means and driven thereby at a top-speed in excess of 6,000 revolutions per minute, more than four stub-blades carried by the spinner for imparting a rearward axial velocity to the air, and a tube surrounding said spinner, said blades and said motive-means, a tubular shroud-portion closely surrounding the blades, said tube terminating in a rear-end nozzle-means, whereby a jet of air is drawn through the blades and over the motive-means and expelled to the rear.

2,404,955

LONG-LINE FAULT DETECTOR AND RELAYING SYSTEM

Shirley L. Goldsborough, Basking Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 2, 1943, Serial No. 504,695

16 Claims. (Cl. 175—294)



1. An electro-responsive device adapted for use on an alternating-current system and com-

prising a movable part, means for providing a restraining-force which is responsive to

$$I_r^2+E_r^2-2I_rE_r\cos(U-\theta)$$

and means for providing an operating-force which is responsive to

$$I_0^2+E_0^2+2I_0E_0\cos(S-\theta)$$

where I_r and E_r are the effective restraint-side ampere-turns responsive to a line-current and a line-voltage, respectively, I_0 and E_0 are the effective operating-side ampere-turns responsive to a line current and a line-voltage, respectively, θ is the power-factor angle of the line, and S and U are phase-shifting angles.

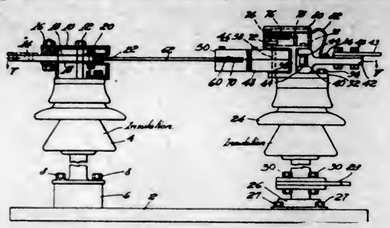
2,404,956
WING LIFT MODIFICATION
Arthur Gouge, Rochester, England, assignor to Short Brothers (Rochester & Bedford) Limited, Rochester, England
Application June 16, 1943, Serial No. 491,083
In Great Britain November 3, 1942
5 Claims. (Cl. 244—42)



1. The combination with an aircraft wing, of a trailing edge flap, which is normally partially housed in a recess in the undersurface of the wing with its lower surface in alignment with the lower surface of the wing but is extensible rearwardly and downwardly from said recess, said flap being formed of separable front and rear sections whereof the rear section is normally partially housed in a recess in the undersurface of the front section, and a common actuating mechanism for operating in sequence on the two sections of the flap to extend the flap into extended positions in all of which the upper surfaces of said sections form with the upper surface of the wing a substantially continuous curved surface which, apart from the slots, is unbroken and devoid of sudden discontinuities, initial movement of said actuating mechanism being effective to extend the rear section only to open a first slot between the same and the front section, and continued movement of said actuating mechanism being effective to extend both said sections, to open a second slot between the front section and the trailing edge of the wing.

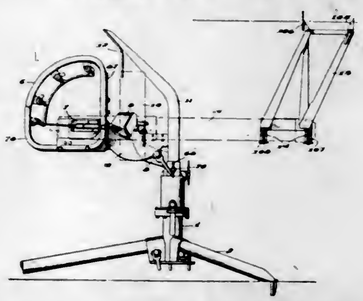
2,404,957
CIRCUIT INTERRUPTER
Howard W. Graybill, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,910
15 Claims. (Cl. 200—48)

1. In a circuit interrupter, a line contact, a switch blade adapted to frictionally engage said line contact, movable supporting means for said blade with said blade mounted on said supporting means for limited relative movement while said blade is held in frictional engagement with said line contact, said blade also being movable with said supporting means into and out of engagement with said line contact, separable interrupting contacts arranged in series circuit relation with said blade, an overcenter spring for actuating said interrupting contacts into and out of engagement with a snap action, and means responsive to said relative movement between said blade and supporting means to actuate said spring overcenter to thereby actuate said inter-



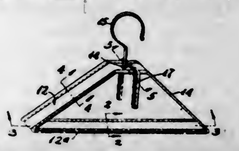
rupting contacts while said blade engages said line contact.

2,404,958
CONTROL MECHANISM
Samuel G. Green, Alexandria, Va., and Walter H. D'Ardenne, Jenkintown Manor, William J. Meinel, Huntingdon Valley, and Weber de Vore, Horsham Township, Montgomery County, Pa., assignors, by direct and mesne assignments, to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 31, 1943, Serial No. 516,520
4 Claims. (Cl. 89—27)



1. In a gun mount, a standard, a cradle assembly supported on said standard for horizontal and vertical pivoting movement, a trigger frame carried by the rear end of said cradle assembly, a series of spaced operating handles carried by said trigger frame and disposed in different horizontal planes, means for actuating the trigger mechanism of a gun carried by said cradle assembly, and means connecting said last named means with said operating handles.

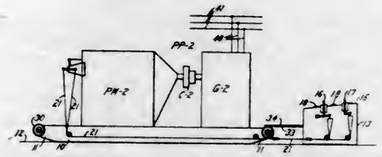
2,404,959
FOLDABLE GARMENT HANGER
Herman Greenberg, New York, N. Y.
Application December 24, 1943, Serial No. 515,519
3 Claims. (Cl. 223—89)



3. A foldable garment hanger comprising a tubular member of flexible material, a telescoped sectional stiffening stick within said tubular member to stiffen same including a tubular section and a rod section in said tubular section, said stick being adjustable to vary its overall length, one of said sections having a row of slots and the other

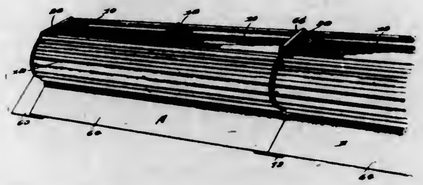
of said sections having a flexible member adapted to coact with said rows of slots to hold said sections in an adjusted position, a locking ring surrounding said sections and flexible member for locking said flexible member in its holding position, flexible strip portions continuing from said tubular member and having their ends connected together above said tubular member, and a hook connected with said strip portions.

2,404,960
POWER-PLANT ASSEMBLY AND CONTROL
Harold F. Hanson, Wilkinsburg, and John W. Morrow, Edgewood, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 14, 1943, Serial No. 506,200
3 Claims. (Cl. 290—4)



1. A plurality of portable power-plants, a control-stand having common control and instrumentation for said power-plants, and disengageable means for mechanically joining them all together in predetermined, spaced relation, each power-plant comprising a prime-mover and an electric generator driven thereby, and said control-stand including disengageable, mechanically movable connections to a plurality of said power-plants and requiring said predetermined relation for accurate simultaneous operation.

2,404,961
VENTILATOR
Grover C. Hoch, Dubuque, Iowa, assignor to Klauer Manufacturing Company, a corporation of Iowa
Application December 30, 1942, Serial No. 470,613
10 Claims. (Cl. 98—42)



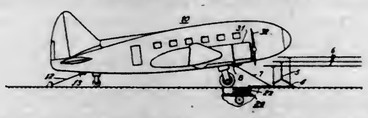
1. A ventilator unit comprising an eduction pipe of elongated substantially rectangular cross section and adapted to be disposed over an elongated roof opening, a cap above said eduction pipe, outwardly convex storm bands on opposite sides of said eduction pipe extending above the lower edge of said cap and below the upper edge of said eduction pipe, vertical baffle means extending across the space between the upper edges of said storm bands transverse to the longitudinal axis of said eduction pipe, said baffle means comprising plates extending above the upper edges of the storm bands and secured to said cap and said storm bands, and a plate disposed in the plane of said first plate and extending from the cap downwardly between the side walls of the eduction pipe and secured to said cap and said eduction pipe.

2,404,962
NECKTIE
Joseph E. Johnson, Islington, Mass.
Application May 2, 1944, Serial No. 533,712
8 Claims. (Cl. 2—145)



3. A four-in-hand necktie having wide and narrow terminal portions, the wide terminal portion having margins to be lapped to encompass the narrow terminal portion, the latter having a ligature with a free end, and said margins having apertures through which said free end may be passed for subsequent attachment of said ligature to a shirt button.

2,404,963
TENSIONING DEVICE
Maurice F. Jones, Pittsburgh, and Harold F. Hanson, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1944, Serial No. 537,512
4 Claims. (Cl. 244—63)

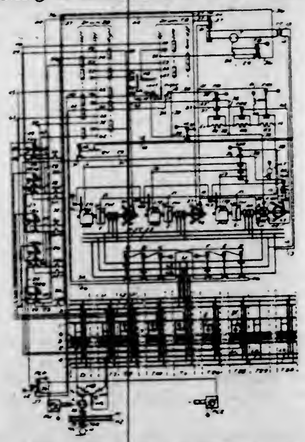


1. An aircraft-launching apparatus comprising a self-propelled towing-car having a towing-cable for pulling the aircraft from the towing-car, and a chock-device, said chock-device comprising a stationarily supported frame-member disposed in a predetermined position with respect to the towing-car when the towing-car is standing in its starting-position ready for an aircraft-launching accelerating-run, a pushing-member movably carried by said frame-member in position to be moved up against a portion of the towing-car, and means for applying a limited, follow-up pushing-force from said frame-member to said pushing-member, with a limited follow-up movement, and with a force just reasonably sufficient to push the towing-car along and make and keep its towing-cable taut during preliminary preparations for take-off before the application of self-propelling power to the towing-car.

2,404,964
ELECTRIC CATAPULT AND POWER PLANT
Ruel C. Jones, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 31, 1943, Serial No. 500,638
3 Claims. (Cl. 290—40)

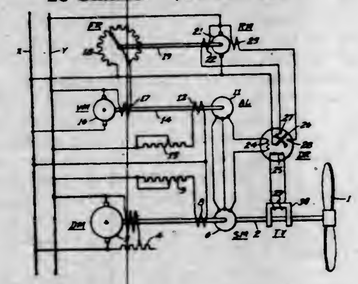
1. An electric power plant, comprising a polyphase motor, a prime-mover, a synchronous poly-

phase generator driven by said prime-mover, and power-switch means for controlling the phase-sequence and the timing of the energization of the motor from said generator, said prime-mover having a rotatable shaft and a throttle-means, and said generator having a variable excitation-means, control-means for operating the power plant, during a limited period of operation, in



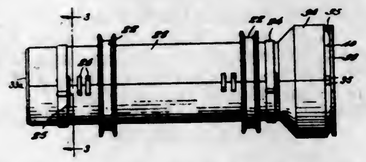
such manner that the prime-mover has substantially full throttle at the end of such a period of operation, and control-means, responsive to the termination of such a period of operation, for initiating a reverse-phase-sequence energization of the motor, and for establishing a high excitation of said generator while said prime-mover is still operating at substantially full throttle.

2,404,965
OSCILLATION GENERATING SYSTEM
Lee A. Kilgore, Wilkinsburg, and Harry E. Criner, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 12, 1944, Serial No. 517,922
16 Claims. (Cl. 73—68)



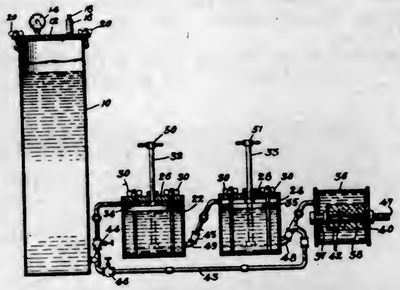
1. An oscillation generating device for exciting a mechanical oscillatory system, comprising electric means for imparting forced oscillations to said system, an alternating-current generator for energizing said means, a variable speed motor in driving connection with said generator, an electric network connected with said motor for controlling its speed, and phase angle responsive control apparatus disposed in said network and having means for producing a component control magnitude in accordance with the oscillatory velocity of the imparted oscillations and means for producing a component control magnitude in accordance with the force effecting said oscillations so as to maintain said motor at a speed corresponding approximately to the zero value of the phase angle between said two magnitudes.

2,404,966
TILE FORMING MOLD
Richard J. Kingston, Ogden, Utah
Application September 14, 1944, Serial No. 554,027
1 Claim. (Cl. 25—127)



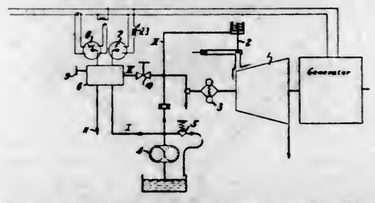
A tile forming mold comprising a pair of semi-cylindrical sections, means for clamping the sections in assembled relation, a tapering ring in one end of the sections of the mold, an end plate closing said end of the mold, a flared end at the other end of the mold and having inturned tongues and a core removably inserted in said last-named end of the mold, said core having an annular groove adapted to receive said tongues for retaining the core in position therein, said last-named end and the core forming a bell mouth end on said mold for molding a tile with a bell mouth end.

2,404,967
PORTABLE WATER PURIFICATION AND FILTRATION UNIT
Jerome B. Levy, Newark, N. J., assignor, by direct and mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of New Jersey
Application April 14, 1943, Serial No. 483,065
8 Claims. (Cl. 210—16)



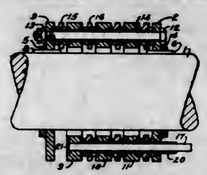
1. A water treatment apparatus comprising, in combination, a tank containing water and adapted to receive and retain air under pressure, a filter unit having a porous filter stone therein, a plurality of air-tight vessels adapted to contain a fluid, a plunger in each vessel over the fluid therein, conduit means adapted to conduct water under pressure from said tank to the interior of the first of said vessels above the plunger so as to urge the plunger downwardly, conduit means adapted to conduct fluid from the first vessel upon downward movement of its plunger to the interior of the second vessel above its plunger so as to urge said plunger downwardly, conduit means adapted to conduct fluid under pressure from said last named vessel upon downward movement of its plunger to the filter unit, means in each vessel to render the conduits effective to conduct water from the tank through the vessels to the filter unit, a valve controlled by-pass conduit effective to conduct water directly from the tank to the filter unit, and manual means to actuate the plungers independent of the pressure within said tank.

2,404,968
REGULATING DEVICE FOR PRESSURE FLUID CONTROLLED PRIME MOVERS
Albert Leyer, Rieden, near Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland
Application March 17, 1943, Serial No. 479,530
In Switzerland February 3, 1942
9 Claims. (Cl. 290—40)



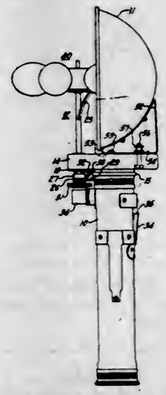
1. In a regulating system for controlling the admission of motive fluid to a prime mover connected to a load; an admission valve, a fluid-pressure-operated motor device for adjusting said valve, a source of fluid pressure, and regulating means for controlling the fluid pressure at said motor device; said regulating means including a control valve in a connection between said source and said motor device, opposed fluid-pressure means tending to move said control valve in opposite directions, connections from said source to the respective fluid-pressure means, means to vary the pressure in one of said fluid-pressure means in accordance with the frequency of the prime mover, and means for varying the pressure in the other fluid-pressure means progressively in accordance with the power required to carry the load.

2,404,969
ELECTRICAL MACHINE
Stanley J. Liddington, Hamilton, Ontario, Canada, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1944, Serial No. 543,820
4 Claims. (Cl. 171—322)



1. A collector ring assembly for mounting on the shaft of a dynamo-electric machine, said assembly comprising a pair of support rings mounted on the shaft, one of said support rings being rigidly secured to the shaft, and the other of said support rings being axially movable with respect to the shaft, a plurality of bolts extending axially of the shaft between said support rings, a plurality of collector rings supported on said bolts and spaced radially from the shaft, means for insulating the collector rings from the bolts, and tubular insulating spacer members on the bolts between the collector rings.

2,404,970
MULTIFLASH LAMP
Henry Herbert Magdsick, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application July 5, 1943, Serial No. 493,519
4 Claims. (Cl. 240—37)

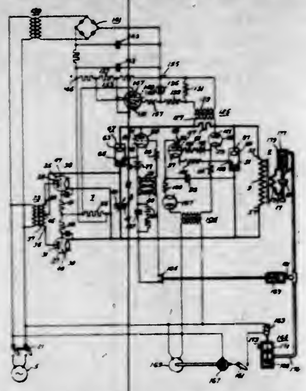


3. A portable photographic flash light device comprising a battery casing adapted to be held in a vertical position, a concave light-concentrating reflector supported at the upper end of said casing with its axis horizontal, a vertically extending spindle rotatably supported at the upper end of said casing in front of said reflector, a rotary lamp unit comprising a hub member carrying individual flash lamps extending radially from said hub, said hub member having an axially extending passage for engagement with the upper end of said spindle to support the lamp unit in front of said reflector and in a horizontal plane including the reflector axis, interlocking engagement means on said spindle and hub for causing said lamp unit to rotate upon rotation of the spindle, the lamps being thereby successively movable into the focus of said reflector, the lower end of said spindle being provided with finger-grippable means for its rotation, and electric circuit means arranged to energize that lamp which is at the focus of said reflector.

2,404,971
CONTROL CIRCUIT
John R. Mahoney, Pittsburgh, and Harry J. Bichsel, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 19, 1944, Serial No. 550,231
7 Claims. (Cl. 320—1)

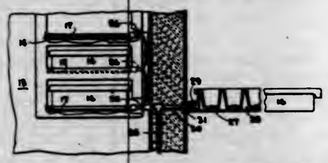
1. Apparatus for use in supplying current to a load comprising a capacitor, charging means connected across said capacitor and tending to supply current therethrough to charge the same whenever the capacitor voltage is below a predetermined value, circuit means connecting said capacitor across said load to effect discharge of said capacitor therethrough, said circuit means including valve means interposed between said capacitor and load for controlling the flow of current therebetween and impedance means in series with said valve means whereby a voltage is developed across said impedance means in response to current conducted through said valve means, means responsive to said voltage and connected to said charging means for preventing operation of

said charging means only during current flow through said valve means, and control means



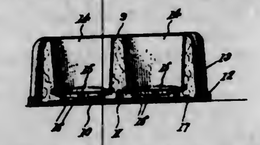
connected to said valve means to cause said valve means to be conductive during each of a plurality of spaced intervals.

2,404,972
PNEUMATIC ICE TRAY AND CUBE RELEASE
Logan L. Mallard, Norfolk, Va.
Application December 4, 1941, Serial No. 421,646
11 Claims. (Cl. 62—108.5)



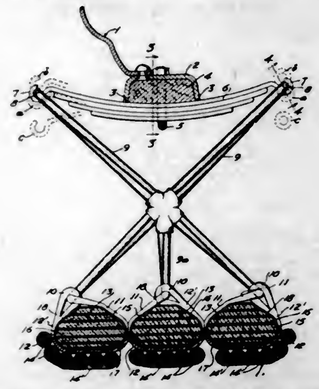
6. A metal freezing tray for use in the evaporator of a domestic refrigerator comprising a plurality of compartments for the fluid to be frozen each having the bottom wall thereof provided with a flexible diaphragm, said tray also having a pressure chamber and a socket forming part of a detachable coupling having an opening therein communicating with said chamber to permit introduction of fluid under pressure thereto to flex said diaphragms and dislodge frozen matter from said compartments.

2,404,973
ICE TRAY
Logan L. Mallard, Norfolk, Va., assignor of one-half to H. Clay Hofheimer, II, Norfolk, Va.
Application April 1, 1944, Serial No. 529,098
10 Claims. (Cl. 62—108.5)



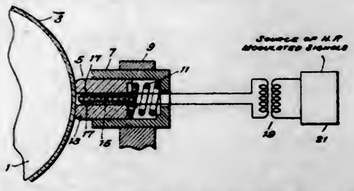
1. A device of the character described comprising wall structure having a pocket therein for receiving water to be frozen into a unit of ice, the bottom wall of said pocket being deformable, wall structure cooperating with said bottom to form a chamber, a body of fluid confined in said chamber in a manner to exert pressure against said deformable bottom wall upon expansion of fluid due to increase in temperature of the fluid, said chamber forming walls being of a character to transfer heat from an external source to said fluid, and said fluid being of a character and being present in such an amount that upon a rise in temperature of the same that a force will be exerted upon said bottom sufficient to move the same toward the center of said pocket and break the bond between the pocket wall and ice therein, and compression spring means for assisting the expansive action of the fluid in breaking said ice bond.

2,404,974
STEEL SPRING SPOKE TIRE
James V. Martin, Rochelle Park, N. J.
Application April 7, 1942, Serial No. 438,031
3 Claims. (Cl. 152—252)



2. A vehicle wheel rim and flexible tire tread combination wherein leaf springs are attached at spaced intervals to the said rim and arranged transversely to the rotary plane thereof, coil springs attached to flexible cords forming a tension connection between the ends of said leaf springs and the said flexible tread.

2,404,975
RECORDING STYLUS
Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 29, 1942, Serial No. 444,995
3 Claims. (Cl. 234—64)

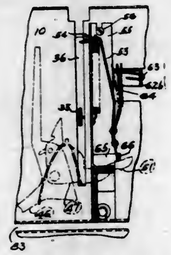


1. A recording stylus comprising a support member, a pair of sparking electrodes imbedded within said support member with the sparking areas of said electrodes below the surface of said support member and exposed to the atmosphere.

2,404,976
AUTOMATIC TOASTER
Paul J. McCullough and Charles H. Steuber, St. Louis, Mo., assignors to Joseph Pavelka, St. Louis, Mo.
Application May 12, 1943, Serial No. 486,641
3 Claims. (Cl. 99—328)

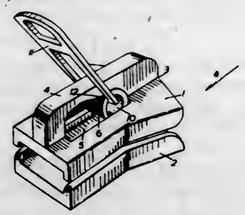
1. In a toaster, a casing including a toasting compartment, a heater therein, a slice support,

means for moving said support from an elevated non-toasting position to a lower toasting position and return, a clockwork escapement mechanism for controlling the return movement of said support and the toasting period, an arm pivoted at one end on the casing and movable at its other end to form an adjustable stop to limit the clock controlled movement of the support, a thermo-



stat subject to the temperature in the toasting compartment, and a connection between said thermostat and arm for moving the latter about its pivot, said connection normally causing the arm to follow the movement of the thermostat but being constructed to yield to accommodate relative movement of the thermostat and arm if the latter is held against movement.

2,404,977
SLIDER FOR SLIDING CLASP FASTENERS
Bela Meitner, Whitchurch, England, assignor to Aero Zipp Fasteners Limited, London W. C. 1, England, a British company
Application February 5, 1944, Serial No. 521,259
In Great Britain February 23, 1943
10 Claims. (Cl. 24—205.5)



1. In and for a sliding clasp fastener, a slider comprising an upper shield. a lower shield joined to said upper shield at a neck portion said shields defining therebetween a passageway for separable fastening members, an arched yoke on said upper shield, a locking member provided in the arch of said yoke and displaceable in the longitudinal direction of the slider, said upper shield having an opening through which said locking member may protrude into the space formed between said upper and lower shields, and a pull member attached to said locking member, said yoke being so shaped that the arch is stepped to form at least two sections with its height increasing in the direction from the neck portion to the other end of the slider, whereby in operation said slider is reciprocable with respect to said fastener members when said locking member is in the higher section of the arch said locking member is free when in the higher section of the arch, but when in the lower section of the arch it is pressed by said yoke towards the fastener members, which are in turn pressed towards said lower shield, the fastener being, thus, clamped between said locking member and said lower shield.

2,404,978
FLUID SPEED INDICATOR
Eldred O. Morton, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 10, 1944, Serial No. 521,815
13 Claims. (Cl. 73—212)

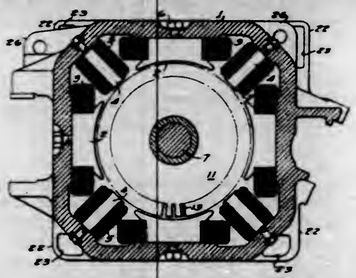


1. A Pitot-static tube comprising, in combination, an elongated casing pointed at the front end having an opening at the front for receiving the dynamic pressure of the fluid flowing with reference to the Pitot-static tube, a front plug and a rear plug within the casing and a rear closure for the casing, said plugs and closure dividing the casing into a front chamber, a middle chamber and a rear chamber, said front plug being provided with a longitudinal channel at the top and a second longitudinal channel at the bottom, said rear plug being provided with a longitudinally disposed well at the top of a given depth, and being provided with a second longitudinally disposed well at the bottom of the plug, a single elongated electrical heating unit in the upper channel of the front plug and the upper well of the rear plug, a conduit passing through the bottom channel of the front plug and extending into the bottom well of the rear plug, said conduit fitting snugly and sealed into said plugs so that when said electrical heating unit is in place there be no communication between the first and second chambers and the second chamber and the bottom well of the rear plug, a vertical channel at the rear end of the rear plug providing a communication between the bottom well of the rear plug and the top well of the rear plug, a conduit extending through the top portion of the rear plug into the vertical channel, a baffle at the lower forward end of said second mentioned conduit, said second mentioned conduit providing a communication to an indicating instrument, said casing being provided with drain means near the front end of the front plug to drain out any moisture that might collect in the front chamber, said casing and rear plug being provided with drain means at the rear end of the rear plug which drain means are in communication with the vertical channel in the rear plug, said casing also being provided with a plurality of openings in the top and bottom thereof near the front end of the rear plug to receive the static pressure of the fluid flowing with reference to the Pitot-static tube, said rear plug having channels for providing a substantially free communication between the middle chamber and the rear chamber, a conduit disposed in the closure for providing a communication of the static pressure from the rear chamber to an indicating instrument.

2,404,979
SPLASHPROOF TRACTION MOTOR
Erich O. Mueller, Irwin, and Richard H. Wagner, Edgewood, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1943, Serial No. 473,916
4 Claims. (Cl. 172—36)

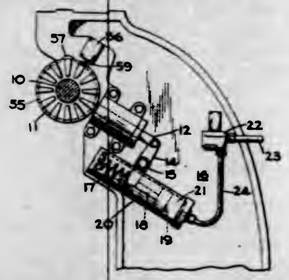
1. A dynamo-electric machine having a rotor member and a stator member, said stator member including a frame structure, the frame structure being generally octagonal in cross-section, but having an end portion which is generally

square in cross-section, whereby the corners of said end portion form chambers extending radially beyond the adjacent surfaces of the octagonal portion of the frame structure, said chambers



having openings in their side walls to permit the escape of ventilating air, and means in said chambers for preventing the entrance of liquid into the interior of the machine through the chambers.

2,404,980
MACHINE CONTROL MEANS
Edwin A. Munschauer, Jr., Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y.
Application February 16, 1944, Serial No. 522,678
8 Claims. (Cl. 192—131)



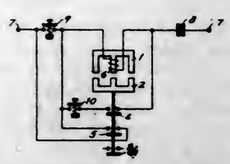
1. Control means for a machine having a single-revolution clutch including an element movable between clutch-engaging and clutch-disengaging positions, an electromagnet energizable to move said element to clutch-engaging position, means biasing said element to clutch-disengaging position, an energizing circuit for said electromagnet, a pair of switches connected in series in said circuit, a pair of spaced control elements manually movable to close said switches and energize said electromagnet, a relay, and an energizing circuit therefor, a second pair of switches closable simultaneously with the first pair by manual movement of the control elements and connected in parallel in said relay circuit, a normally closed switch in said electromagnet circuit and a normally open switch in said relay circuit, said last two switches being movable by energization of said relay to open and closed position, respectively, a second normally open switch in series with said relay and in shunt with respect to said first normally open switch and means operable during the cycle of said single-revolution clutch to momentarily close said second normally open switch to energize said relay and establish a holding circuit therefor through said first normally open switch and either of said second pair of switches to de-energize the electromagnet through opening of the normally closed switch in its circuit in the event said circuit is then closed through said first pair of switches.

2,404,981
METHOD OF MAKING NECKTIES
Valentine Naftali, Mount Vernon, N. Y.
Application May 5, 1943, Serial No. 485,689
2 Claims. (Cl. 2—146)



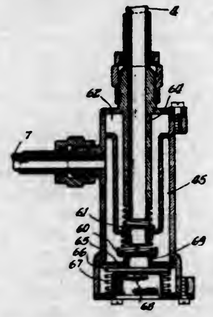
1. In a method of making neckties, the steps comprising folding a necktie fabric longitudinally with the wrong side outermost to provide two adjacent layers interconnected by a first folded longitudinal edge, folding a portion of one of said two layers over on itself in a direction toward said first folded longitudinal edge to provide a third layer, stitching together the said three layers at a plurality of independent points spaced from each other along the length of said folded fabric, arranging said independent points of stitching in a line substantially parallel to the longitudinal axis of said folded fabric and spacing said line of independent points of stitching from said first folded edge a distance substantially equal to the width of the completed necktie, then turning said folded, stitched fabric inside out.

2,404,982
RELAY CONTROL CIRCUIT
James B. Owens and Robert H. Hitson, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1945, Serial No. 572,703
4 Claims. (Cl. 175—320)



1. A relay control circuit comprising, in combination, an electromagnetic relay having an armature biased toward open position and a magnet coil for moving said armature into closed position, said coil having low inductance when said armature is in open position and high inductance when said armature is in closed position; terminal means for supplying energizing alternating current to said coil; a capacitor connected with said coil between said terminal means and tuned relative to said coil so as to form together therewith a series circuit which is substantially resonant at said low inductance and substantially non-resonant at said high inductance; and control means connected across said coil for short circuiting, when actuated, said coil in series to said capacitor.

2,404,983
LIQUID FUEL PUMP
Lewis Pengilly, Palo Alto, Calif.
Application July 12, 1943, Serial No. 494,298
5 Claims. (Cl. 103—164)



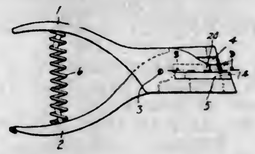
1. In a liquid elevating system which includes a liquid supply, a chamber having an inlet submerged therein and a delivery pipe leading upwardly therefrom, said chamber comprising an outer cylindrical body having a top wall, an inner cylinder suspended in the outer cylinder in spaced relation thereto and having an outlet port in its lower end, a delivery tube connected with said delivery pipe and depending from the top wall of the outer cylinder within the inner cylinder, said tube terminating in spaced relation to said outlet port, an outlet valve disk seated over said port, a coil spring supported on the lower end of said tube and holding the outlet valve yieldingly to its seat, an outwardly seating valve for the submerged inlet of the chamber, and an air pipe leading into said chamber with pumping means supplying alternate suction and pressure impulses to actuate said valves and force liquid from the chamber into the delivery pipe.

2,404,984
ELECTRIC TOWING-CAR CATAPULT FOR AIRCRAFT
Frank B. Powers, Pittsburgh 16, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1943, Serial No. 473,843
8 Claims. (Cl. 172—126)



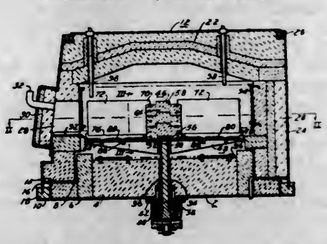
1. An electrically controlled system, comprising a reversible self-propelling polyphase-motored movable body, power-feeder means for feeding polyphase electrical energy to said polyphase-motored movable body, a relatively stationarily located power-switch means for controlling the polyphase energy-supply to the polyphase-motored movable body in either sequence of phases, control-means, associated with said power-switch means, for initiating and terminating a forward-driving polyphase energization of said polyphase-motored movable body for a forward run in a selected phase-sequence, and control-means, associated with said power-switch means and responsive to the termination of said forward-run energization, for automatically and promptly thereafter initiating a reverse-phase-sequence energization of the polyphase-motored movable body.

2,404,985
CARD PUNCH
Albert A. Rembold, San Francisco, Calif.
Application October 21, 1944, Serial No. 559,694
15 Claims. (Cl. 164—121)



1. A device for slotting out perforations along an edge of a sorting card to said edge comprising a die member having spaced cutting edges for forming the side edges of the respective slots to be formed and a complementarily formed punch member supported for movement into and out of said die member to effect the cutting of such slots when a card is interposed between said members, a projection on said punch member extending toward said die member arranged and adapted to pass into the perforation to be slotted out upon movement of said punch member toward said die member and before cutting of said slot whereby said projection will hold the perforation to be so slotted out in a predetermined position relative to said punch member and die member, stop means carried by said die member and spaced from said projection for engaging the edge of such sorting card at spaced points adjacent the perforation to be slotted out upon said projection entering such perforation, and means supporting said stop means for movement to various distances from said projection.

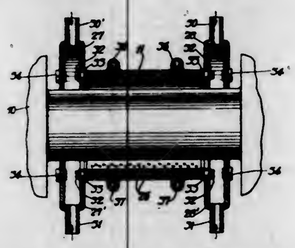
2,404,986
ROTATORY HEARTH FURNACE
Willard Roth, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 16, 1943, Serial No. 514,509
6 Claims. (Cl. 13—21)



2. A heat-treating furnace comprising a heat-insulating bottom-wall, heat-insulating upper wall, including a top-wall, cooperating with said bottom-wall to provide a heat-treatment chamber, heating means for heating said heat-treatment chamber comprising electrical heating elements supported on said bottom-wall, said bottom-wall having a central opening, an upstanding rotatory shaft in said central opening, passing below said bottom-wall and above said heating elements, bearing means for said shaft, said bearing means being heat-insulated from said heat-treatment chamber by said bottom-wall, a charge-supporting means carried by said shaft above said heating elements, said upper walls being separable as a unit from said bottom-wall and said charge-supporting means, a gas-sealing means for sealing the joint between said upper walls and said bottom-wall, gas-inlet means for

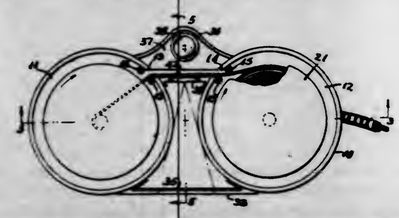
delivering a special gas-atmosphere to said heat-treatment chamber, and means about said shaft for limiting gas-leakage through said central opening.

2,404,987
INDUCTION HEATING AND QUENCHING DEVICE
Wallace C. Rudd, Larchmont, N. Y., assignor to Induction Heating Corp., New York, N. Y., a corporation of New York
Application April 19, 1944, Serial No. 531,730
1 Claim. (Cl. 266—4)



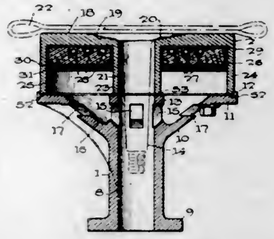
Induction heating and quenching apparatus comprising a single turn inductor constructed and arranged for connection to a source of high frequency current and having a generally annular internal surface area for extending around and in spaced relation to objects to be heated when positioned axially therein, said surface area being formed with perforations distributed substantially throughout the area for bringing the space between the inductor and object into communication at numerous points with the external atmosphere, generally annular chamber means insulated from the inductor and mounted on an end thereof for extending around the object to be heated and formed with a generally annular outlet communicating freely with said space, outer wall portions of said chamber means being shaped to closely embrace the object and thus close off the outer side of the chamber and provide means for positioning the object within the inductor, means for introducing into said chamber a forceful stream of quenching fluid to flow from the chamber as an axially moving annular stream substantially uniformly covering the surfaces of the object and whereby resulting vapor is free to pass out through said perforations, the inductor and chamber assembly being formed of two separable segments permitting opening thereof to introduce or remove the objects, and clamping means for removably securing such segments together.

2,404,988
MAP DEVICE
William Ryan, New York, N. Y.
Application March 20, 1945, Serial No. 583,756
6 Claims. (Cl. 88—24)



1. A map device comprising a case having a bottom wall, walls upstanding from said bottom wall and defining two spaced chambers, aligned slots in said walls of said chambers, a spindle in the center of each of said chambers, a drive spool mounted on one of said spindles, a ring gear secured to said drive spool, another spool mounted freely on the other of said spindles, a transparent map wound on said free spool and adapted to be unwound therefrom and wound on said drive spool and to pass through said slots, a projection lens between said chambers in front of the portion of said map passing through said slots, a projection screen between said chambers in front of said lens, a projection tube between said chambers to the rear of said map portion, adapted to send light through said map portion and lens and to project and enlarge said map portion on said screen, a casing secured to the bottom wall of said case, an opening in said bottom wall in line with said gear and opening into said case, a gear rotatably mounted in said casing, extending through said opening and meshing with said ring gear, and means connected to said last mentioned gear for rotating same and thereby rotating said spool gear and said drive spool.

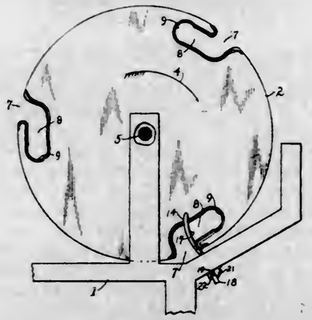
2,404,989
VULCANIZER
Paul Schmid, Jamaica, and Henry Hylton, Brooklyn, N. Y., assignors to Acme Air Appliance Co., Inc., Brooklyn, N. Y., a corporation of New York
Application June 23, 1944, Serial No. 541,710
4 Claims. (Cl. 18—18)



1. A vulcanizer of the class described, comprising a frame including a hollow tubular part arranged with its central axis in a vertical position, said tubular part being provided with an outwardly and upwardly inclined wall extending about the upper end of the same and terminating at its upper end in a horizontally disposed flat, continuous annular rim radially spaced from and at the same level as the upper end of the tubular part, a heater unit mounted on the frame, said heater unit including a circular housing of inverted cup-shaped form, the upper side of said housing constituting a vulcanizing surface, with its outer marginal wall depending from the vulcanizing surface and resting upon the annular rim of the frame aforesaid, said heater unit also having a central opening therethrough aligned with the tubular part of the frame and having a central tubular hub surrounding the opening and depending from the vulcanizing surface, with its lower end resting upon the upper end of the tubular part of the frame, and a pressure platen carried by the frame in cooperative relation to the vulcanizing surface of the heater unit.

4. An electrical heater unit comprising an annular housing defining an unobstructed central opening therethrough and provided with an outer marginal flange thereabout and an inner flange around the central opening aforesaid, said flanges defining therebetween an annular space, a heating element disposed in the annular space aforesaid and electrically insulated from the housing, closure means including thermal insulation arranged in the annular space beneath the heating element, thermostatic means also disposed in the annular space within the housing and including an insulated mounting extended laterally through the outer marginal flange of the housing, and a conductor cord rigidly fixed to the insulated mounting and electrically connected in circuit with the heating element and thermostatic means, said thermostatic means and conductor cord being both attached to the mounting within the housing of the heater unit, and the mounting being attached to the housing independently of the heating element and thermally insulated from the latter.

2,404,990
FRUIT HALVING AND PITTING
Frank C. Silva, San Jose, Calif.
Application August 26, 1944, Serial No. 551,384
7 Claims. (Cl. 146—28)



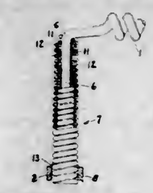
1. In a fruit cutting device, a disc having one or more slots provided with cutting edges directed inwardly from its periphery and then laterally in substantially parallel relation therewith, and having a substantially uniform width throughout.

2,404,991
JAR GRIP
Philip J. Senk, St. Albans, N. Y.
Application March 23, 1944, Serial No. 527,739
4 Claims. (Cl. 294—31)



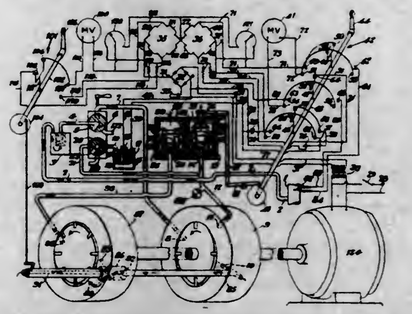
1. A jar grip, comprising a pair of crossed and pivotally connected arms, and a jar gripping member mounted on the front ends of said arms, said pivotally connected arms being formed of wood, said jar gripping member comprising a loop of wire having its ends passed slideably through a ring and then connected to the front ends of said arms.

2,404,992
LAMP FILAMENT CONNECTION
Joseph E. Stone, South Euclid, Ohio, assignor to General Electric Company, a corporation of New York
Application February 21, 1945, Serial No. 579,018
3 Claims. (Cl. 176—38)



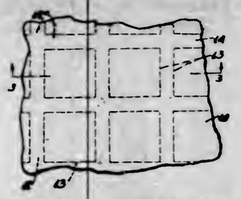
3. The combination with an incandescent filament coil of stout metal wire having an uncoiled leg, and a current lead for connection to said leg, of a tight-wound slipover coil on said leg of finer wire than said filament with its convolutions gripping the said leg and thus making electrical connection thereto, and a second flexible coil of substantially corresponding pitch and of finer wire than said filament screwed over and between the convolutions of said first-mentioned coil and welded to said lead.

2,404,993
GAS ANALYZER
Alan P. Sullivan, Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application January 22, 1940, Serial No. 314,899
3 Claims. (Cl. 23—255)



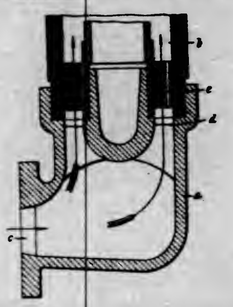
2. In a multi-range gas analyzer adapted for analyzing gas quantitatively for a constituent of a gaseous mixture, a combustion chamber, means for positively delivering a continuous flowing stream of gas to be analyzed through a conduit to said chamber, means comprising a Wheatstone Bridge electric circuit including a catalyst wire leg mounted in said chamber for setting up combustion therein and a galvanometer for measuring any increase in temperature thereby developed, means connected with said conduit for supplying to the gas stream a continuous flowing stream of gas which is combustively reactant with said constituent of the gas, means connected with the supplying means for changing the relative volumes of gas and reactant gas in the mixture, and an electrical switching mechanism controlling the galvanometer circuit for adjusting the sensitivity of the galvanometer, said volume changing means and switching mechanism being connected together and so arranged that adjustment of the switching mechanism to actuate said sensitivity adjusting mechanism will simultaneously operate said volume changing means.

2,404,994
ROOFING MATERIAL
Isidor Supsak, Bronx, N. Y.
Application May 27, 1944, Serial No. 537,634
6 Claims. (Cl. 154—51)



1. Roofing material, comprising a flexible sheeting strip having an internal wire mesh layer, asbestos fibre layers against the faces of said wire mesh layer, a plurality of longitudinally and laterally spaced water and heat proof sheets positioned on the outer faces of said asbestos fibre layers, and asphaltum outer covering extending over said water and heat proof sheets and through the pores of said asbestos fibre layers at the areas between the adjacent edges of adjacent sheets of said water and heat proof sheets.

2,404,995
GAS BLAST CIRCUIT BREAKER
Hans Thommen and Gottfried Brühlmann, Baden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application February 18, 1944, Serial No. 522,934
In Switzerland January 20, 1943
4 Claims. (Cl. 138—39)



1. A pipe bend for use in pressure gas piping, said pipe bend comprising a hollow body having a circular inlet opening and an annular outlet opening in end planes at a substantial angle to each other, the inner wall of said annular outlet opening being formed by a core located within said hollow body at its outlet end, and means between said inlet and outlet end planes for effecting a substantially uniform velocity of gas flow through different parts of said annular outlet opening.

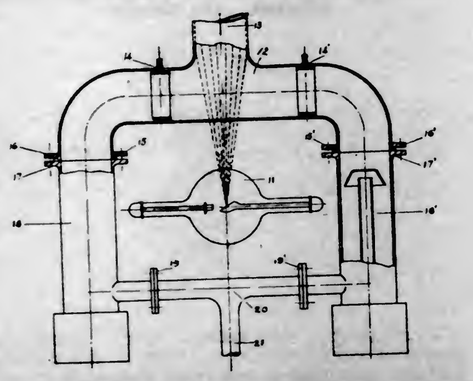
2,404,996
ADJUSTABLE SUPPLY T
Marquis O. Thrush, Peru, Ind., assignor to H. A. Thrush & Company, Peru, Ind.
Application July 24, 1944, Serial No. 546,372
6 Claims. (Cl. 137—69)

1. An adjustable supply T for a hot water heating system for controlling diversion of hot water from the supply line to a radiator, and comprising a valve body of a low grade casting with a horizontal bore for location in the supply line of a heating system, said body having a branch outlet extending upwardly therefrom and with a transversely disposed substantially cylindrical body portion between said horizontally bored portion and said upstanding outlet at the intersection of the same, said transversely disposed cylindrical body portion being provided with a valve chamber the axis of which is above said horizontal bore, said chamber communicating therewith and with said branched outlet, the upper half of said valve chamber being substantially semi-cylindrical in form, said valve chamber being closed at one end and having its opposite end provided with an opening affording access to the valve chamber, the material of said body being thickened about said access opening for reinforcement, and with limiting stops on the face of said body around



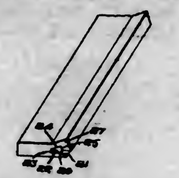
said opening, a closure plug for said opening, a stub shaft journalled in said closure plug, an operating member on the end of said stub shaft exteriorly of said chamber and disposed in a manner to engage said stops for limiting the movement of said stub shaft, a valve in the upper portion of said valve chamber curved similarly to the curvature of the wall of the chamber and movable to vary and interrupt flow through said branch outlet, said valve having an integral mounting arm at one end fixed to said stub shaft and having a relatively narrow extension at the opposite end of the valve of substantially less length than the width of the valve for forming a bearing contact between the valve and the closed end of the valve chamber.

2,404,997
PRODUCTION OF HIGH VACUA
John William Tills, Upton, Wirral, John B. Lovatt, Hoylake, Wirral, and Frank C. Potts, Upton, Wirral, England
Application February 9, 1944, Serial No. 521,725
In Great Britain November 12, 1943
12 Claims. (Cl. 230—45)



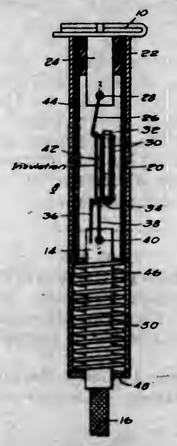
1. An apparatus for producing a high vacuum, comprising means for irradiating gas to be pumped with X-rays to ionize said gas, and means for applying electrostatic forces to effect pumping action on the ionized gas.

2,404,998
SHOE WELTING
William C. Vizard, Brockton, Mass., assignor to Barbour Welting Company, Brockton, Mass., a copartnership composed of Perley E. Barbour, Walter G. Barbour, and Richard H. Barbour
Application February 7, 1944, Serial No. 521,465
2 Claims. (Cl. 12—146)



1. A method of making preformed welting which consists in slitting the inseam edge of a welt strip to form a pair of flexible lips and removing a string of material from the welt body between said lips, bending the lips downwardly relative to the welt extension and cementing them together to form a depending inseam flange.

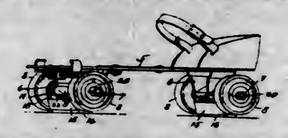
2,404,999
CIRCUIT INTERRUPTER
James M. Wallace, Braddock, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 24, 1940, Serial No. 331,337
27 Claims. (Cl. 200—115)



1. In a fuse, a fuse tube having a pair of contacts, a replaceable fuse link unit in said fuse tube having terminals connected to said contacts, respectively, said fuse link unit including an insulating tube of a size to be spaced from the inner walls of said fuse tube, a circuit between said terminals including a gap positioned in the space between said tubes, a parallel circuit between said terminals including fusible means in said insulating tube, and means responsive to surge currents for rendering said gap circuit conducting.

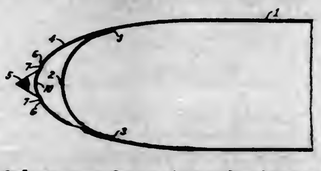
2,405,000
ROLLER SKATE ATTACHMENT
Clarence A. Whited, Jenkins, Ky.
Application April 2, 1945, Serial No. 586,059
6 Claims. (Cl. 280—11.37)

6. The combination with a roller skate including an axle, a tubular axle housing and rollers mounted on the axle, of a traction device including removable members mounted on the axle at the ends of the tubular housing, a traction pad housing including a member pivotally mounted on the first mentioned members, and



a latch member carried by the traction pad housing for securing the traction pad housing and removable members together against movement with respect to each other, and a traction pad carried by said traction pad housing.

2,405,001
SHOCK ABSORBING DEVICE
Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 8, 1944, Serial No. 530,218
5 Claims. (Cl. 114—20)

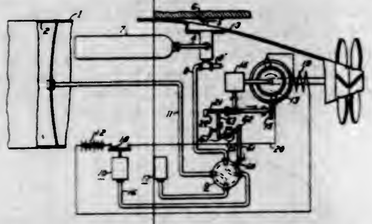


1. A false nose for a torpedo, in combination, a torpedo body having a hemispherical nose integral with the body, the torpedo body and nose at the junction region being so shaped, or circumferentially depressed, that the outside diameter of the hemispherical nose at the base of the hemisphere is substantially equal to the inside diameter of the body, a hemi-ellipsoidal false nose disposed over the hemispherical nose so as to form a chamber between the two noses, the base of the hemi-ellipsoidal nose fitting snugly over the base of the hemispherical nose, the two noses being welded to each other at their bases to form a liquid-tight joint, and a liquid disposed in the chamber formed by the two noses, the hemi-ellipsoidal nose circumferentially of the tip being bent inwardly a relatively small amount so that when the torpedo hits a target the false nose will begin its collapse at the portion bent inwardly, the tip, at the bent inwardly region, being provided with a plurality of apertures plugged with rivets that are soldered into place to make the connection leak-proof but to have relatively little strength when the surrounding metal is stressed, whereby the rivets are, when the torpedo hits a target and the false nose begins to collapse, expelled from the apertures by the rising pressure of the liquid in the chamber, and the torpedo is suitably slowed down to prevent damage to the equipment for causing the detonation.

2,405,002
CONTROL SYSTEM FOR TORPEDOES
Charles C. Whittaker and Ruel C. Jones, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application November 24, 1943, Serial No. 511,581. Divided and this application October 17, 1944, Serial No. 559,077
7 Claims. (Cl. 114—20)

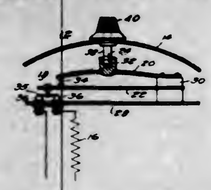
1. In a system of control for a torpedo, in combination, a battery, a motor for driving the tor-

pedo, a source of gas under relatively high pressure, an exercise head for the torpedo which is to be filled with gas, as air, at the end of an exercise run to make the torpedo buoyant to facilitate recovery of the torpedo, a governor actuated means for maintaining the speed of the motor substantially constant till the battery is substantially exhausted, a trigger actuated valve operable to open when the torpedo is fired to thus connect the source of gas pressure to various devices in the torpedo for effecting various operations, a spring biased control valve having a relatively small leakage port, a pneumatically operable spring biased switch for connecting the motor to the battery, a minimum pressure valve disposed to be coupled to the pneumatically operable switch, said control valve being normally held in a given position to connect the source of



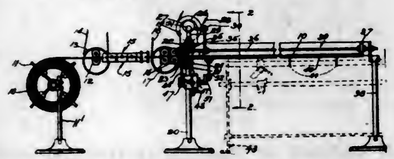
gas to the pneumatically operable switch to thus effect the connection of the motor to the battery an instant after the trigger valve is opened by the firing of the torpedo, means responsive to a given operation of the motor speed control means for releasing said spring biased control valve whereby the spring causes rapid operation of the valve to disconnect the pneumatically operable switch and the minimum pressure control valve from the source of gas and connect them to the leakage port and connect the exercise head to the source of gas to make the torpedo buoyant, said minimum pressure control valve being operable, when the operating pressure for the pneumatically operable switch decreases to a given low value by reason of the relatively slow leakage of gas through the leakage port, to rapidly exhaust the gas from the pneumatically operable switch to thus effect a substantially snap-action like disconnection of the motor from the battery.

2,405,003
THERMOSTAT
Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application September 17, 1941, Serial No. 411,112. Divided and this application June 14, 1944, Serial No. 540,355
6 Claims. (Cl. 200—139)



1. A thermostat for an appliance comprising a first thermostatic member and a second thermostatic member, both members being actuated in the same direction upon an increase in temperature, said first member being inherently snap-acting and, when in a closed position, engaging the second member for retaining it in a closed position until the first member snaps to its open position.

2,405,004
CHAMFERING MACHINE
Lido Albiani, Cicero, Ill.
Application April 22, 1943, Serial No. 484,037
2 Claims. (Cl. 29—33)



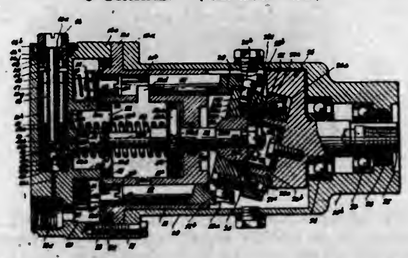
1. The combination with means for feeding and straightening a length of wire, means for cutting the wire into suitable lengths after being straightened, means actuated by the feeding of the wire to cause closing and opening of the cutting means by pressure exerted in the feeding movement, means to release the wires as cut, means to receive and clamp the wires individually as fed thereto, a reciprocating motor-driven chamfering tool, air-operated means for reciprocating the tool, control means for said air-operated means, actuated by the operation of the cutting means, to advance the tool upon the cutting of the wire and to reverse the movement of the tool upon the feeding of the wire when the cutting means is open, said means serving to automatically release a cut length of wire and to feed the same by gravity into the clamping means, means operated by the tool-reciprocating means to actuate the wire-clamping means for action on the wire end by the tool on advance thereof, and to release the same, upon opposite movement of the tool, and means also operated by said reciprocating means to raise and cause discharge of the wire to one side of the clamping means.

2,405,005
DOUBLE-THROW SWITCH
William C. Anderson, Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application June 30, 1943, Serial No. 492,799
4 Claims. (Cl. 200—6)



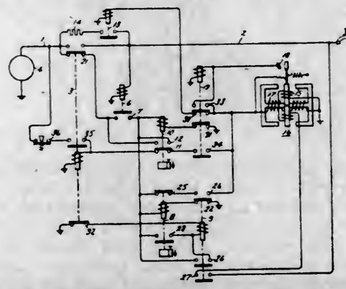
1. In an electric switch, an insulating housing having a chamber, stationary switch contacts within the chamber having terminals outside of the housing, a switch member pivoted within the housing for coacting with the contacts, an actuator mounted on the same pivot center as the switch member and having a limited freedom of motion relative to the switch member and in the same general plane, a pair of opposed springs interposed between the actuator and the switch member and centering devices coacting with opposite sides of the switch member, within the housing chamber.

2,405,006
AUTOMATIC CUTOFF PUMP
Benjamin N. Ashton, Kingston, N. Y., assignor to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware
Application January 27, 1944, Serial No. 519,844
6 Claims. (Cl. 103—23)



1. An automatic cut-off pump comprising at least one pump cylinder having an inlet and an outlet, a piston reciprocable in said cylinder to draw liquid into said cylinder through said inlet and discharge liquid through said outlet, rotary driving means, a wobble plate actuated by said rotary driving means for reciprocating said piston, and means responsive to a predetermined liquid pressure at the outlet of said cylinder for shifting said wobble plate out of engagement with said rotary driving means to render that latter ineffective to reciprocate said piston, said pressure responsive means being responsive to a lower pressure than said predetermined pressure to shift said wobble plate into engagement with said rotary driving means to render the latter effective to reciprocate said piston.

2,405,007
CONTROL SYSTEM
Herman Bany, Lansdowne, and Amos W. Bateman, Yeadon, Pa., assignors to General Electric Company, a corporation of New York
Application January 20, 1945, Serial No. 573,706
7 Claims. (Cl. 171—118)

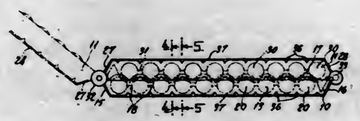


1. An arrangement for automatically closing a switch between two normally energized circuits when one of said circuits becomes deenergized comprising means responsive to the deenergization of said one of said circuits for establishing between said circuits an arrangement for measuring the load impedance connected to the deenergized circuit, means controlled by said load impedance measuring arrangement for rendering said load impedance measuring arrangement inoperative when the load impedance exceeds a predetermined value, and means dependent upon said one of said circuits being deenergized at the expiration of a predetermined time interval after said load impedance measuring arrangement is rendered inoperative for effecting the closing of said switch.

2,405,008
TREATMENT OF ORIENTED HALOGEN-CONTAINING POLYMERS
Kenneth Lester Berry, Hockessin, and Julian Werner Hill, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 21, 1943, Serial No. 503,236
12 Claims. (Cl. 8—115.5)

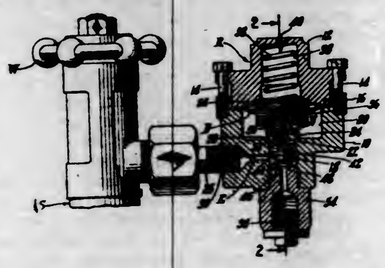
1. A process for reducing the heat shrinkage of a shaped object of an oriented, halogen-containing polymer of a monoethylenic unsaturated compound having the halogen attached to intralinear carbon which comprises heating said shaped object with from 0.1% to 15%, based on the weight of the polymer, of an organic curing agent having carbon attached by two bonds to a hetero atom of atomic weight less than 33, by at least one valence to nitrogen, said agent being selected from the class consisting of aliphatic aldehyde-aromatic amine condensation products, thiuram mono-, di-, and tetrasulfides, ureas, thioureas, dithiocarbamic acids and salts thereof, mercaptothiazoles, and guanidines, and under tension at a temperature of 135–150° C. after a gradual increase of the treating temperature which is kept close to but below the rising softening point of the polymer until the polymer is insoluble in solvents for the untreated polymer.

2,405,009
CIGARETTE CASE
James Murray Beveridge, Bronxville, N. Y., and Clifton J. Cowan, East Orange, N. J., assignors to Mavco, Inc., a corporation of New York
Application August 9, 1944, Serial No. 548,708
5 Claims. (Cl. 206—41)



1. A cigarette case consisting solely of two substantially similar trays each having ends and side walls and made of molded material, cooperative hinge means at one end of each tray, cooperative catch means at the other end of each tray, each tray having side walls extending from one end to the other with an inside spacing equal to cigarette length, a back wall interconnecting the side walls, and a front wall extending from one side wall toward the other, the front wall comprising a series of arches and being interconnected with the opposed portions of the back wall by webs, the arches and webs forming a row of cylindrical pockets side by side adapted to receive the ends of cigarettes whose other ends reach the other side wall, the spacing of the centers of the pockets being substantially greater than the diameter of a cigarette so that the cigarettes in each tray are spaced from one another, the pockets of one tray being opposite the free ends of the cigarettes held in the pockets of the other tray and overlying them when the case is closed, the depth of the pockets being such that each pocket holds the received cigarette against the back wall and prevents unintentional dislodgment of the cigarettes from the opened case no matter in what position the opened case is held.

2,405,010
VALVE
Worthy C. Bucknam, Mechanic Falls, Maine, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Original application January 13, 1938, Serial No. 184,791, now Patent No. 2,308,643, January 19, 1943. Divided and this application June 4, 1942, Serial No. 445,697
8 Claims. (Cl. 137—78)



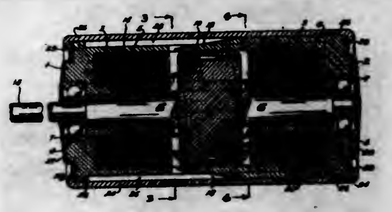
1. The method of protecting a pressure damageable element against injury from a surge from a source of gas at high pressure which comprises restricting the initial gas flow between the source and element to a small amount directly in response to a gas pressure on the element which is below a substantially predetermined value and which is substantially independent of the gas pressure at the source so as to gradually build up gas pressure on the element, and then greatly increasing said gas flow by freeing the flow from such restriction directly in response to the attainment of said substantially predetermined value of gas pressure on the element substantially independently of the gas pressure at the source.

2,405,011
VITREOUS COMPOSITIONS
Guenther Buechner, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application July 1, 1942, Serial No. 449,329
6 Claims. (Cl. 106—46)

1. A vitreous material comprising a product of a composition consisting of mica, cryolite and boric acid heat-reacted in intimate admixture in a finely divided state, said material being characterized by a homogeneous structure, high dielectric strength and low power factor in a high frequency field.

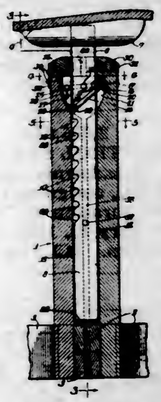
2,405,012
TWO-PHASE MOTOR
Samuel Bousky, Shaker Heights, Ohio, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application January 17, 1944, Serial No. 518,539
4 Claims. (Cl. 172—120)

1. A motor construction comprising a pair of opposed, axially aligned field pieces, each field piece being of cup shape with an annular base having inner and outer rims constituting opposite magnetic poles, a coil in the cup space between said rims, pole tips on said outer rim, motor bearings in said field pieces, and a rotor of magnetic material supported in said bearings, said rotor having an enlarged central portion disposed between said field pieces in operative relation with said pole tips and elongated end portions of appreciably reduced diameter and diminishing in diameter outwardly and terminating in end shaft portions supported in said rotor bearings and extending through said field pieces and



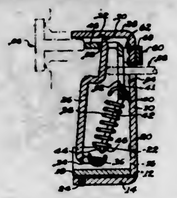
closely adjacent said inner rims throughout substantially the entire length of said end portions with end clearance for the main body portion of said rotor so as to establish magnetic circuits through said rotor.

2,405,013
CHAIR
James A. Campbell, Adrian, Mich., assignor of one-half to Charles T. Campbell, Adrian, Mich.
Application November 19, 1942, Serial No. 466,103
5 Claims. (Cl. 155—94)



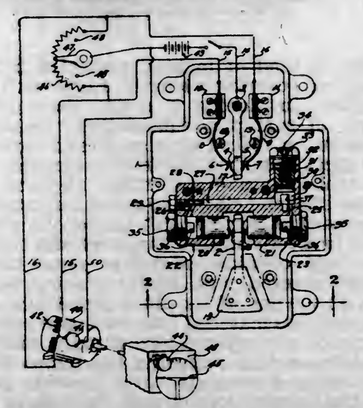
3. In an adjustable chair, the combination of two relatively movable telescoped members providing an extensible column for supporting a seat at various heights within certain predetermined limits, a link wholly within and pivotally carried by the outer one of said members and extending about the other member and lying thereagainst, said other member having a plurality of notches, said link having one portion thereof engageable by gravity within the confines of any one of said notches whereby said relatively movable members are locked against relative movement in one direction to support said seat, abutment members carried by the inner one of said movable members, one above and one below said link and operating to move said link out of the path of movement of said other member when a definite seat height is attained and to restore the link to active locking position at another seat height removed from said first seat height, and a spring latch secured to one of said members and functioning to hold said link out of locking position with respect to said members until restored to active locking relation thereto.

2,405,014
SNAP ACTION MECHANISM
Michael J. Caparone, Pasadena, Calif., assignor to Grayson Heat Control, Ltd., Lynwood, Calif., a corporation of California
Application May 3, 1944, Serial No. 533,976
5 Claims. (Cl. 74—100)



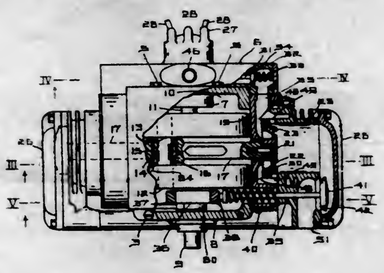
1. Snap-acting mechanism of the character described comprising in combination, a pair of levers pivotally mounted at opposite ends, a tension spring connecting the free ends of said levers and adapted to establish snap-action thereof in response to overcenter movement relative to said mounting, and means adapted to apply a force for preventing one of said levers from participating in said movement until sufficient spring tension has been established to overcome said force.

2,405,015
AUTOMATIC BANK CONTROL
Bert G. Carlson, Erieside, Ohio, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application February 4, 1942, Serial No. 429,456
4 Claims. (Cl. 244—77)



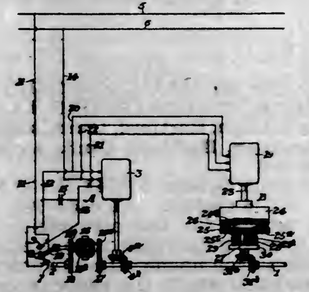
2. A bank control for an automatic pilot on an aircraft having a rotatable follow-up adjusting member for establishing the attitude of the aircraft about its longitudinal axis in flight, comprising a pendulum pivoted for transverse movement with respect to the longitudinal axis of the aircraft, a reversible motor connected with said follow-up member, a source of power for rotating said motor, means operated by movements of said pendulum in response to turning and banking movements of the aircraft to control the application of power from said source to said motor to cause it to turn in one direction or the other when the pendulum is away from neutral position and to remain stationary when the pendulum is in neutral position, and progressively variable manipulatable means available to the operator for further controlling the power supply for said motor to produce by a single setting a selected speed differential of operation thereof in different directions of rotation to produce aileron movement at one speed in one direction and at a different speed in the other direction in effecting roll of the aircraft.

2,405,016
PISTON AND CYLINDER DEVICE
William H. Cook, Toledo, Ohio
Application July 21, 1943, Serial No. 495,597
3 Claims. (Cl. 122—56)



3. A piston and cylinder device comprising a crank, a yoke thereabout, piston rods oppositely extending from the yoke, disk pistons on the rods, cylinders for the pistons, heads for the cylinders between the yoke and pistons, said heads having glands for the piston rods approximately abutted by the yoke at explosion position of a piston in its cylinder and by the piston at the other limit position of the piston in thereby providing a precompression chamber to a major extent common with the explosion chamber in increased temperature build up therefrom for the precompression charge.

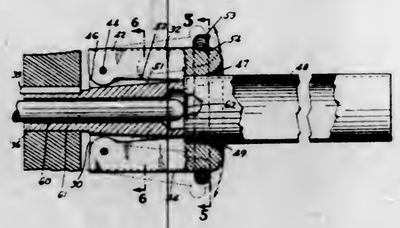
2,405,017
DAMPING MECHANISM
Raymond E. Crooke, Little Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application August 18, 1938, Serial No. 225,536
4 Claims. (Cl. 172—239)



1. In a mechanism for maintaining within predetermined limits the rate of change of speed of a driven member actuated by a prime mover subject to variable energization and capable of accelerating the driven element beyond permissible limits, the combination comprising a driven element, a prime mover connected to drive the driven element and capable of accelerating the driven element beyond desirable limits, an inertia element for limiting the rate of change of speed of the driven element, a friction driving connection between the driven element and the inertia element, and another prime mover connected to

drive the inertia element, said second mentioned prime mover having a power output only sufficient to accelerate the inertia element within predetermined limits.

2,405,018
AUTOMATIC GRIPPER
Charles Crowley, Astoria, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application February 17, 1945, Serial No. 578,438
7 Claims. (Cl. 294—106)



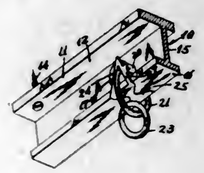
1. In a gripper, a frame having a series of circumferentially spaced apart slots and a central opening therein for an ejecting rod, the innermost faces of the slots being in outward spaced relation to the opening, a series of rigid clamps each having an extension of rectangular cross section pivotally mounted adjacent one of the ends thereof in one of the slots and each having a part at the other end thereof projecting longitudinally beyond one end of the frame, said part having a continuous circumferential groove therein aligned with the corresponding groove of the adjacent parts each of said parts forming part of a hollow cylinder, and an annular spring set into the grooves and urging the clamps toward a common center, the bottom of each slot tapering upwardly toward one end of the frame and normally engaging the clamp mounted therein to limit the innermost position of the clamp and thereby to limit the least diameter of said hollow cylinder to a diameter greater than that of said central opening.

2,405,019
PROCESS OF MAKING ORGANO-SILICON COMPOUNDS CONTAINING A C-Si BOND
George A. Dalin, Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application October 5, 1943, Serial No. 505,084
5 Claims. (Cl. 260—607)

1. A process for the preparation of organosilicon compounds which comprises reacting an inorganic silicon halide with a hydrocarbon while both reactants are in the vapor phase at a temperature of not less than approximately 840° C., condensing the reaction products, and separating organic substituted silicon halide from such reaction products.

2,405,020
CURTAIN TRAVERSE WHEEL
Theodore Dierking, New York, N. Y.
Application August 18, 1944, Serial No. 550,099
2 Claims. (Cl. 16—87.2)

1. A hanger, comprising a wheel retainer having a bottom wall for extending under and against the bottom flange of an I-shaped overhead track and side walls for extending upwards past the sides of said bottom flange and transverse flanges extending inwardly from each side of said side walls, a pair of wheels for riding on the side portions of said bottom flange and having axial bores and having their outer faces adjacent the



inner faces of said side walls and having the sides of their peripheries adjacent said transverse flanges, said side walls having openings with shoulders, and a yoke-shaped link having its ends engaging into said bores and having its arms extending through said openings and swingingly limited by said shoulders.

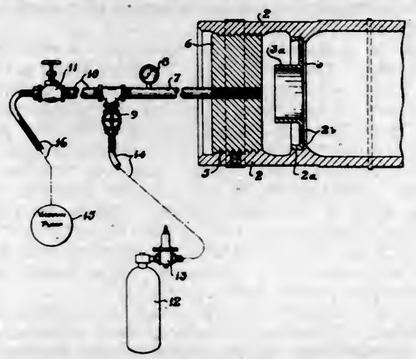
2,405,021
INSULATED PIPE
Albert A. Durant, Honolulu, Territory of Hawaii
Application June 7, 1944, Serial No. 539,084
1 Claim. (Cl. 154—28)



The method of making protected pipe which comprises covering a length of pipe with heat insulation, positioning a metal sheet along the length of said pipe substantially concentrically about but in spaced relation to said covered pipe, said sheet being tubular in cross-section with the adjacent longitudinal terminal edges thereof being parallel and closely adjacent but spaced apart to provide a narrow, slot-like opening into the space between said tubular sheet and the covered pipe, said opening extending along the length of the covered pipe length placing temporary seals at the end of the sheet metal tube, pouring a bituminous material into the space between the sheet and the covered pipe through said narrow, slot-like opening removing the temporary seals, positioning a separate cover member over said slot-like opening joining said sheet edges together to enclose said pipe along the covered length thereof, and pressing the engaged edges of the cover member and tubular sheet to lock them permanently into position.

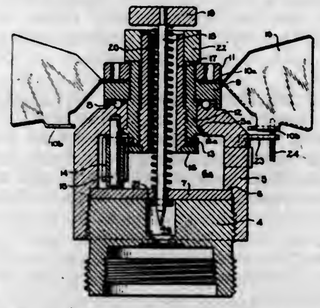
2,405,022
PROPELLER BLADE
Louis H. Enos, Montclair, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application August 21, 1943, Serial No. 499,744
4 Claims. (Cl. 170—159)

2. As a new article of manufacture, a hollow metallic propeller blade comprising a shank portion having extending therefrom plates disposed in facing relation and forming an interior chamber, and a detachable member in said shank portion sealing said chamber, said sealed chamber containing a gaseous mixture comprising sub-



stantially one part air to seven parts helium at approximately atmospheric pressure.

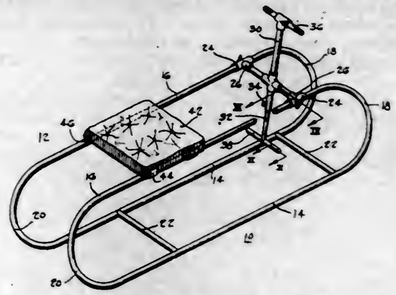
2,405,023
FUSE
William F. Errig and Edward S. De Hart, Philadelphia, Pa., assignors to Peco Manufacturing Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application April 20, 1942, Serial No. 439,614
2 Claims. (Cl. 102—81.2)



1. In a bomb fuse of the type having a body from which projects an arming sleeve adapted to be retracted into said body by an air driven vane and a headed firing pin extending through said sleeve, the combination with said sleeve and pin of a one-piece annular safety block having a cut-out portion of width less than the sleeve but of sufficient size for escape when the sleeve is retracted, said block being adapted to surround said sleeve, in its unarmed position, between the head of the firing pin and said body.

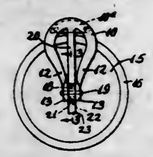
2,405,024
EXERCISING DEVICE
Thomas M. Eynon, Philadelphia, Pa.
Application May 26, 1944, Serial No. 537,384
1 Claim. (Cl. 272—58)

An exercising device comprising two elongated side frames each including an upper horizontal member and a lower horizontal member, a lower cross member rigidly connecting the lower members of said side frames, an upper cross member secured to the upper members of said side frames and freely rotatable about a horizontal axis, a vertical member rigidly carried by said upper cross member, a hand grip carried by the upper end of said vertical member, a foot rest carried by the lower end of said vertical member, and a seat slidably mounted on the upper members of said side frames, said foot rest be-



ing heavier than said hand grip to afford resistance against free movement of said vertical member.

2,405,025
EARRING CLASP
Lipa Feingold, New York, N. Y.
Application January 29, 1944, Serial No. 520,244
4 Claims. (Cl. 63—14)



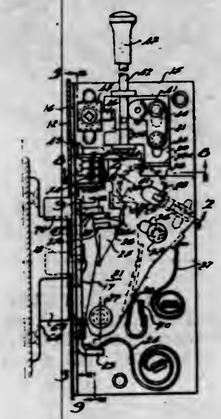
1. An ear ring clasp, comprising a harp-like resilient member for engaging against one side of one's ear lobe and having its side arms directed downwards, an ornamental member for engaging against the other side of said ear-lobe and having a stem with a disc-like end axially pivotally mounted between the side arms of said harp-like member, and a leaf spring portion extending from the central portion of said harp-like member and having ratchet teeth engaging complementary ratchet teeth on the edge of said disc-like end, the free end of said leaf spring portion extending past said disc-like end so that it may be easily gripped and lifted.

2,405,026
ALPHA-RAY EMISSION DEVICE AND METHOD OF MAKING THE SAME
Irving Feuer and Ladislas Goldstein, New York, N. Y., assignors to Canadian Radium & Uranium Corporation, New York, N. Y., a corporation of New York
Application December 14, 1943, Serial No. 514,232
8 Claims. (Cl. 250—106)



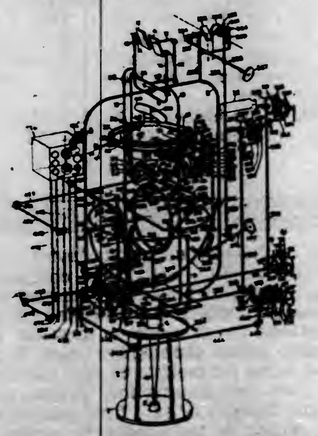
1. An alpha-ray emission device, said device comprising a film, said film comprising film-forming material which is intermixed with radioactive material which emits alpha rays and which disintegrates to produce a gaseous emanation which also emits alpha-rays, said film-forming material being permeable to said gaseous emanation so that said emanation escapes freely from within the interior of said film, said film having a coating which is permeable to alpha rays and which is sufficiently impermeable to said gaseous emanation to produce a condition of equilibrium in which there is constant intensity of alpha ray emanation from said device.

2,405,027
DOOR LATCH
George R. Feuerlein, Detroit, Mich., assignor to Boethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application May 29, 1944, Serial No. 537,838
28 Claims. (Cl. 292—181)



1. In a door latch, a case plate adapted to be mounted on a swinging door, a vertically movable slide on said plate; a longitudinally extending latch bolt secured to said slide and engageable with an inclined surface on a door frame member when the door is closed for shifting the slide upwardly, and a spring actuated locking member shiftable into position beneath a projecting portion on the slide when the latter reaches a predetermined elevation for positively locking the bolt slide against downward movement.

2,405,028
FIRE CONTROL APPARATUS
Hannibal C. Ford, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application September 1, 1926, Serial No. 133,021
Renewed July 27, 1935
136 Claims. (Cl. 33—49)



1. A director comprising a rotatable sighting device having a deflectible optical element, a mimic gun having trunnion pivots rigid thereon, an operative connection between said gun trunnion pivots and optical element, and cross-levelling means operable to displace said trunnion pivots whereby the latter actuate said connection and optical element.

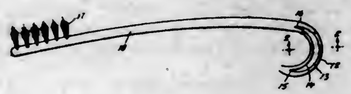
48. In a director for use on a craft adapted to oscillate, a rotatable main frame having a training axis, a correction frame pivoted thereon, a member having pivots which are supported by the first named frame and constituting mimic gun trunnions, a mimic gun, means coacting with said member and mimic gun to position the latter indicatively of the proper position for a real gun, a sighting optical system having an optical element carried by said correction frame, and an operating connection between said mimic gun and correction frame, including a member to which the mimic gun is pivoted.

83. In combination, a director adapted to be trained, a computing device, said director having mechanism for operation in accordance with a target's deflection including a deflection frame pivoted about the training axis of said director, actuating means in said director including a shifting connection to said deflection frame for angularly displacing said frame, deflection-determining means in said computing device, and a driving connection therefrom extending away from said computing device to said shifting connection and controlling said deflection frame.

106. In a range keeper, a movable member representative of an own ship and a mechanical vector movable therewith, mechanism operable in accordance with compass indications to automatically set said member and vector in accordance with an own ship's course, and means to also set said vector according to an own ship's speed.

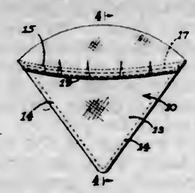
123. In an instrument of the character described, range converting mechanism operable in accordance with advance range and comprising co-acting elements, one of which is operable in correspondence to a straight line approximation of sight depression, another of said elements being operable in accordance with complementary increments of sight depression, and means to algebraically combine the actuations of said elements to give measures of sight depression.

2,405,029
TONGUE CLEANING DEVICE
Irving B. Gallanty, New York, and Robert M. Larsen, Rockville Centre, N. Y.
Application May 7, 1943, Serial No. 486,070
1 Claim. (Cl. 128—304)



A tongue scraper of the character described comprising a handle portion formed with a hook-shaped end, said hook-shaped end being of lesser width than the width of the tongue and having on one face thereof a relatively deep crescent-shaped recess which is disposed generally laterally of the handle portion, the walls of the recess diverging from the base thereof to the face of the hook-shaped end and forming scraping edges on such face, said walls meeting at their opposed terminals and forming a pocket with closed ends, the opposed terminals of such scraping edges directing accumulated matter on the tongue to a position substantially centrally of the recess and effecting removal thereof.

2,405,030
SHOULDER PAD
Benjamin Glickman, New York, N. Y.
Application March 24, 1944, Serial No. 527,866
1 Claim. (Cl. 2—268)

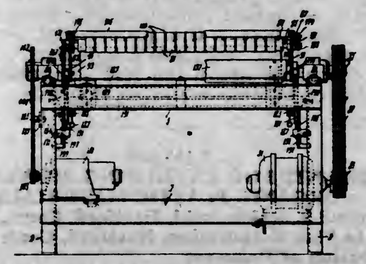


A shoulder pad having a top triangular wall with its edge along the base of the triangle folded over on top to form a hem; a bottom wall having a triangular portion in line with said triangular wall and secured thereto along the sides thereof, said bottom wall having a portion extending beyond said base and bending back to the edge of said hem toward the apex of said triangular wall, a row of stitches securing said edge and the edge of said bottom wall portion together, another row of stitches securing the edge of said hem at its fold to said bottom wall portion, forming a pocket extending along said base, a stiffening strip in said pocket, and a wad of packing disposed unattached between said walls, said pad having a convex face remote from the apex of said pad.

2,405,031
METHOD OF PRODUCING LUMINESCENT ZINC SULPHIDE
Mac Goodman, New York, N. Y.
No Drawing. Application June 24, 1940, Serial No. 342,077
10 Claims. (Cl. 252—301.6)

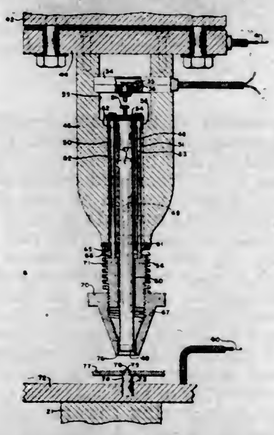
1. The method of producing a luminescent composition, comprising admixing with substances incorporating zinc and sulphur capable of forming a luminescent zinc sulphide upon calcination, a volatile salt convertible by heating into ammonia vapor, and subjecting the mixture to ignition in a chamber whereby the luminescent end product is formed in the non-oxidizing atmosphere of ammonia vapor developed during the ignition reaction.

2,405,032
FUR COMBING AND IRONING MACHINE
Roger L. Griffin, Marblehead, and Norman Y. Moore, Danvers, Mass., assignors to A. C. Lawrence Leather Company, Peabody, Mass., a corporation of Maine
Application June 26, 1943, Serial No. 492,462
20 Claims. (Cl. 69—27)



1. A fur combing and ironing machine having, in combination, a combing and ironing roll, a bed roll for presenting the work to the combing and ironing roll, a plurality of spaced feed belts contacting the work on the opposite side thereof from the bed roll and cooperating with the bed roll to feed the work, and means for actuating the rolls and belts.

2,405,033
HOT RIVETER
William F. Grimes, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 13, 1944, Serial No. 544,767
12 Claims. (Cl. 219—2)



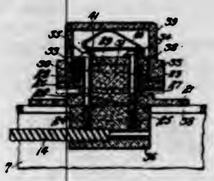
4. In an electric hot riveter, the combination of an electric rivet heating means; a power circuit for the heating means including a normally closed switch operable to interrupt the power through the heating means; a supporting electrode for a rivet; a ram electrode movable against a supported rivet; means to move the ram electrode to press against the supported rivet; and a movable member carried by the ram electrode which when moved a predetermined distance opens the switch to interrupt the circuit through the heating means as the ram electrode moves said predetermined distance to upset the rivet.

2,405,034
BATTERY
Dwight L. Harford, Los Angeles, Calif., assignor to A. Parley Johnson, Downey, Calif.
Application August 12, 1942, Serial No. 454,493
6 Claims. (Cl. 136—173)



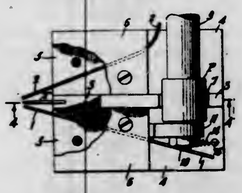
1. In a container for dry cells, one or more double-walled partitions of insulating material in said container, and conducting members carried by said partitions for connecting said cells in series, each of said conducting members having a vertical central portion disposed between the walls of a partition, a portion integral with the upper end of said central portion and extending downwardly therefrom exteriorly of one of said walls through an opening spaced from the upper end of said wall, and a portion integral with the lower end of said central portion and extending laterally therefrom beneath the lower end of the other of said walls, said second named portion and said last named portion adapted to engage the side wall of the casing and the positive electrode, respectively, of two adjacent cells.

2,405,035
ELECTRICAL SWITCH
Dwight L. Harford, Downey, Calif., assignor to A. Parley Johnson, Downey, Calif.
Application October 5, 1943, Serial No. 504,992
16 Claims. (Cl. 200—159)



1. In a switch of the class described, a base member having two spaced contacts thereon, a cap mounted on said base member for movement toward and away from said contacts, and resilient means secured to one of said contacts and extending therefrom toward the other of said contacts and into engagement with said cap, movement of the cap toward the contacts being effective to engage said means with the other of said spaced contacts to complete an electric circuit, said resilient means comprising two superposed strips, one of said strips extending upwardly from said first-named contact into engagement with said cap and downwardly from the latter toward and above the other of said contacts, and the other of said strips extending toward and above said other contact and spaced from said first-named strip and having its free end bent upwardly for engagement with the free end of said first-named strip.

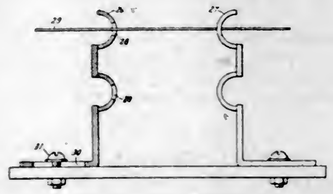
2,405,036
METHOD OF AND APPARATUS FOR MAKING GLASS PRODUCTS, SUCH AS FIBERS AND RODS
James A. Hoffman, Roselle, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application October 1, 1941, Serial No. 413,110
11 Claims. (Cl. 49—17)



1. The method of treating a preformed vitreous rod in preparation for attenuation which comprises heating the rod to an attenuating temperature by directing a flame thereon from only one side, cooling the flame and rod by directing a stream of non-combustible gas thereon along an axis at an acute angle to the rod, from only one side, substantially opposite the flame, and at a higher velocity than the flame, the rod being heated to said attenuating temperature throughout only a short distance in advance of the main body of the stream impinging the rod, the portions of the rod subtended by the flame and stream overlapping to a large extent to lessen the danger of the rod becoming discontinuous, and longitudinally moving the rod relative to the flame in the general direction of the stream and flame at a rate to insure continuity of the rod.

9. An apparatus for treating a preformed rod of vitreous material such as glass comprising means for heating the rod to at least an attenuating temperature including a flame nozzle directed from only one side onto the rod at an acute angle to the rod, means for pushing the rod longitudinally to said flame, and means for cooling the flame including a gaseous cooling stream nozzle directed onto the rod from only one side, at an acute angle to the rod and to an axis of the flame nozzle, substantially opposite the flame nozzle, and directed to have its issuing stream impinge a major portion of the rod length subtended by the flame with the stream moving in the general direction of longitudinal travel of the rod.

2,405,037
HIGH-FREQUENCY HEATING APPARATUS
Eugene T. Hsu, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 17, 1944, Serial No. 526,925
5 Claims. (Cl. 219—47)



1. Electric heating apparatus comprising a pair of spaced apart plate electrodes, an electrostatic field concentrating projection on each of said electrodes provided with a central aperture, said projections being oppositely disposed with respect to each other on adjacent sides of said electrodes, and electric connections for supplying high frequency current to said electrodes thereby to produce a high frequency electrostatic field between said projections and in an article to be heated extending through said apertures between said projections.

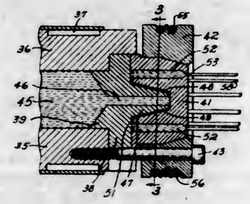
2,405,038
CARBURETOR DIAPHRAGM
Alfred J. Jennings, Bridgeport, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1943, Serial No. 515,593
11 Claims. (Cl. 117—76)

1. A flexible, aromatic hydrocarbon resistant coated fabric, particularly adapted for use as aircraft carburetor diaphragms, comprising a nylon fabric base, a thin primer coat containing a thermosetting resin and a butadiene-acrylonitrile copolymer and a top coat comprising a copolymer of butadiene and acrylonitrile.

2,405,039
DIE UNIT FOR EXTRUDING SHAPES OF ORGANIC PLASTIC MATERIALS
Raymond S. Jesionowski, Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application February 26, 1944, Serial No. 524,116
3 Claims. (Cl. 18—12)

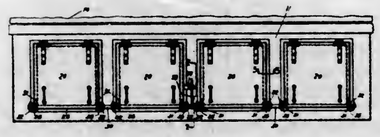
3. A die unit for the extrusion of small shapes of organic plastic material without crinkling or

spiraling comprising a barrel, a bushing associated with the discharge end of said barrel, a die plate associated with said bushing and having formed therein a plurality of longitudinal passages of substantial length terminating in extrusion orifices, means for holding said barrel, bushing and die plate in assembled relation, said bushing having a central passage therethrough, spaced complementary surfaces constructed and arranged to form an elongated restricted passage of annular cross section for conducting said plas-



tic material from said central passage to said longitudinal passages, said restricted passage having a width substantially less than that of said longitudinal passages, the width of said restricted passage being of the order of approximately one thirty-second of an inch and the width of said longitudinal passages being of the order of approximately one-quarter of an inch, and means for heating said die plate to heat the plastic material in said destricted passage and in said longitudinal passages.

2,405,040
HATCH COVERS AND LOCKING MEANS THEREFOR
Thorvald Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application June 2, 1944, Serial No. 538,353
9 Claims. (Cl. 105—377)

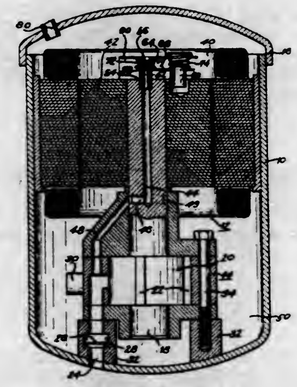


1. In a railway car having a roof, a series of spaced hatches in said roof, hatch frames secured around said hatches, pivotally mounted covers for said hatch frames, a shaft extending in front of said hatch frames, means on said frames rotatably supporting said shaft in close proximity to said frames, locking detents mounted on said shaft, abutment members on said covers, said members extending beyond the sides of said covers substantially vertically above said shaft and means for rotating said shaft and swinging said detents into locking engagement with said abutment members, said engagement between said abutment members and said detents lying in substantially vertical alinement with the axis of rotation of said shaft, said detents engaging said abutment members substantially in the final rotation of said shaft.

2,405,041
PREPARATION OF METHYL POLYSILOXANE RESINS
Kenneth N. Mathes, and Bridget A. Wasiewicz, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
No Drawing. Application May 19, 1944, Serial No. 536,435
5 Claims. (Cl. 260—2)

1. The process which comprises mixing a toluene-soluble methyl polysiloxane resin having a methyl-to-silicon ratio greater than 1 and less than 2 with a nitroparaffin containing from 2 to 4 carbon atoms, and recovering the portion of said resin insoluble in the nitroparaffin.

2,405,042
REFRIGERATING APPARATUS
Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 27, 1943, Serial No. 503,949
6 Claims. (Cl. 230—29)

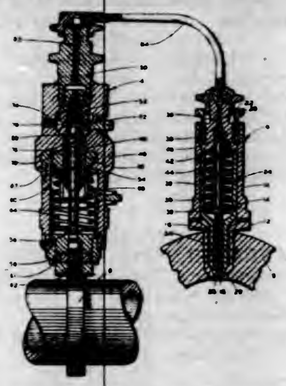


1. In a refrigerating system having a high pressure portion in which refrigerant is maintained at condensing pressure and a low pressure portion in which the refrigerant is maintained at evaporating pressure, a rotary compressor for withdrawing refrigerant from the low pressure portion and for discharging the refrigerant at a higher pressure into said high pressure portion, a compressor operating shaft, a refrigerant passage on said shaft connecting the high pressure portion and the low pressure portion, a pressure operated valve carried by said shaft controlling the flow through said shaft passage, and centrifugal means exerting an opening force on said valve, said centrifugal means including a lost motion connection whereby the valve is free to move to the open position in response to pressure changes without hindrance from said centrifugal means.

2,405,043
INJECTION SYSTEM
Donald E. Meitzler, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 11, 1943, Serial No. 486,623
1 Claim. (Cl. 137—153)

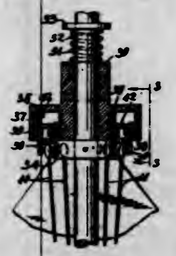
Injection apparatus including a housing, a sleeve within said housing having a valve seat at one end, a cap within said housing closing the opposite end of the sleeve and defining therein a

chamber, said cap having a passage therethrough and a valve seat in said passage in alignment with the valve seat at the opposite end of the sleeve, a plunger within the sleeve having one end fitting within and guided by the passage in the cap and



engageable with the valve seat therein, the other end of the plunger engaging the seat at the end of the sleeve, and a spring surrounding said plunger and urging said plunger against the seat in the sleeve.

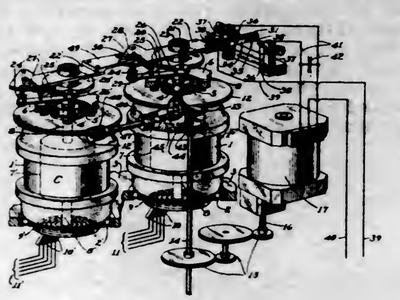
2,405,044
MAGNETIC MEANS FOR KEEPING UMBRELLAS CLOSED
Leonilo Montalvo, New York, N. Y.
Application February 14, 1945, Serial No. 577,892
10 Claims. (Cl. 135—44)



1. In combination with an umbrella having a stick and ribs positioned around said stick, magnetic means for keeping said ribs close to said stick.

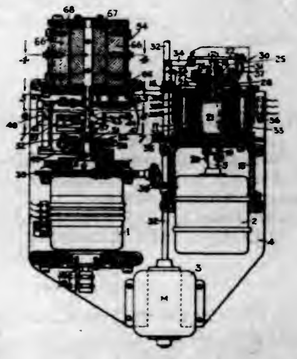
2,405,045
ELECTRICAL FOLLOW-UP
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application February 17, 1934, Serial No. 711,811
Renewed April 5, 1935
10 Claims. (Cl. 172—239)

1. In a receiver unit for use in a system including a pair of controlling transmitters and an object to be actuated in accordance with the operation of the transmitters, the combination of a pair of receivers each having an element responsive to one of the transmitters and an element for energizing the responsive element, driving connections between the energizing elements of the receivers, a motor for operating the object and the driving connections, a contact device for controlling the motor, mechanism associated with the responsive element of one of the receivers for controlling the contact device under certain conditions and mechanism associated with the responsive element of the other



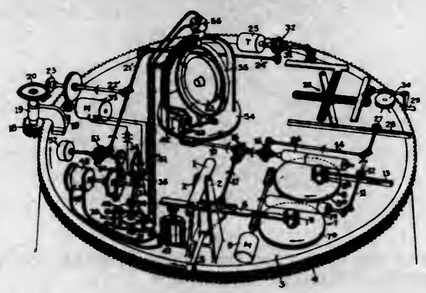
receiver for controlling the first named mechanism and the contact device independently of the said one of the receivers under other conditions.

2,405,046
MOTION REPRODUCING MECHANISM
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application September 24, 1942, Serial No. 459,581
8 Claims. (Cl. 172—239)



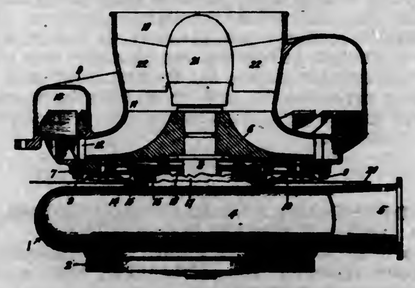
1. Following mechanism comprising in combination with two primary elements, one fine and one coarse, having a predetermined ratio of relative movement and a following element, a servomotor for actuating the following element, an energizing circuit for the servomotor having a fine control and a coarse control, each control including a primary and a secondary contact member, the respective contact members being connected in parallel and the primary contact members being movable by the respective primary elements to close the contacts, means actuated by the servomotor to open the contacts, one of the contact members of each control being yieldable under the pressure of its cooperative contact member to allow the contact members to adjust themselves to the relative positions of the primary and following elements and thereby to absorb error in positional relation of the elements, means biasing the yieldable contact members in the direction to remove error, and means in each control for retarding the return movement of its yieldable contact member.

2,405,047
SIGHT CONTROL MECHANISM
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application May 4, 1943, Serial No. 485,585
12 Claims. (Cl. 33—49)



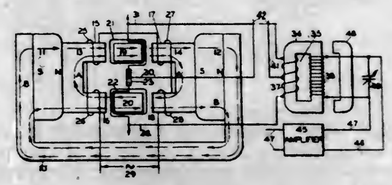
1. In gunnery, sight controlling mechanism comprising a rotatable mount, a sight on the mount, training means for the mount, a manual controller, two variable speed drives each including a rate control member and an output member, means operatively connecting the manual controller to the rate control member of one variable speed drive, means operatively connecting the output member of the said one variable speed drive to the rate control member of the other variable speed drive, means operatively connecting the output member of the said other variable speed drive to the said training means, multiplying mechanism having two input elements and one output element, means operatively connecting the rate control member of the said other variable speed drive to one input element of the multiplying mechanism, means for setting the other input element of the multiplying mechanism according to a function of range, whereby the output of the multiplying mechanism represents the sight deflection angle, and means for combining the movement of the output element of the multiplying mechanism with the movement of the training means to position a member in accordance with the gun train order.

2,405,048
CENTRIFUGAL COMPRESSOR
Winfield T. Nickerson, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application November 18, 1944, Serial No. 564,024
4 Claims. (Cl. 230—127)



1. In a centrifugal compressor, a casing having two halves secured together and defining an impeller chamber therebetween, one of the halves defining a central axially extending compressor inlet conduit and a diffuser and discharge scroll, said scroll being axially spaced from the impeller exit and located entirely on the compressor inlet side of the diffuser, said scroll at its largest cross-section merging into and being partly formed by the wall of the compressor inlet conduit, said diffuser including a plurality of overlapping diffusing passages arranged to direct fluid discharged from the impeller exit into the scroll with a velocity having substantial tangential and axial components, said diffusing passages having circumferentially spaced inlets and outlets, the inlets of the diffusing passages being located substantially on a cylinder surrounding and adjacent the impeller exit, and the outlets of the passages being axially and radially spaced from their respective inlets and lying within the discharge scroll, the outlets being also located in circumferentially spaced planes substantially parallel to the compressor axis.

2,405,049
APPARATUS FOR DETECTING SMALL DIRECT CURRENTS
John Robert Pattee, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application January 20, 1944, Serial No. 518,954
12 Claims. (Cl. 171—119)

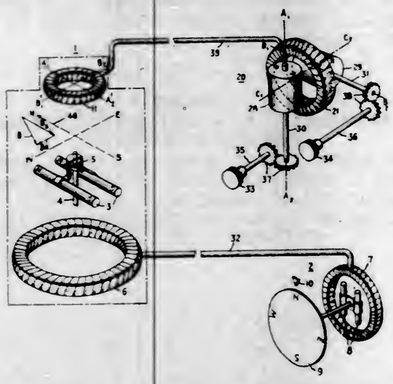


6. In combination, two similar galvanometer elements each having a stationary magnetizable structure and an electrical winding movable in the field thereof, said windings being electrically interconnected at one point and mechanically interconnected to form an integral deflectable unit, means for producing in the fields of the magnetizable structure magnetic fluxes having simultaneous alternating and unidirectional components in which the instantaneous polarity relation of said alternating component to said unidirectional component, in the field of one, is the reverse of that in the field of the other of said structures, a transformer having a winding divided into two sections by a center tap, a bridge network having said sections as two adjacent arms and said movable windings as its other two adjacent arms, and connections whereby a unidirectional E. M. F. to be detected may be applied between said center tap and the point of interconnection of said windings.

2,405,050
MAGNETIC COMPASS DEVIATION COMPENSATOR
Richard A. Pfuntner, Saugus, and Eleanor D. Wilson, Brookline, Mass., assignors to General Electric Company, a corporation of New York
Application March 2, 1945, Serial No. 580,504
9 Claims. (Cl. 33—225)

5. A remote controlled deviation compensator for a magnetic compass comprising a first annular core of permeable magnetic material located in magnetic relation with said compass, a second

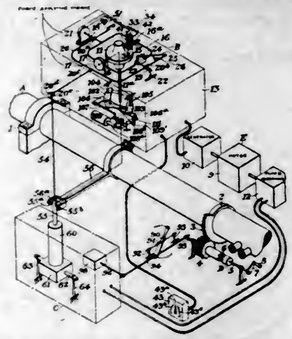
annular core of permeable magnetic material located remote from said compass, said cores having similar coil means associated therewith, the coil means associated with each core having a single phase connection and polyphase connections, the corresponding polyphase connections of said cores being electrically interconnected, means for supplying a periodically varying current to the single phase connections of said cores, a first elongated cylindrical permanent magnet associated with said second core and extending in the direction of a first diameter of said second core, a second elongated cylindrical permanent magnet also associated with said second core and extending in the direction of a second diameter of said second core at right angles to said first



diameter, said cylindrical permanent magnets being magnetized across a diameter of the cylinder so that mutually perpendicular unidirectional magnetic fields are produced across said second core in the direction of said first and second diameters whereby corresponding unidirectional magnetic fields are produced across corresponding diameters of said first core, and means for separately rotating said first and second magnets about their cylinder axes so as to vary the magnitude and polarity of the unidirectional fields produced thereby in a direction of said first and second diameters whereby to vary the magnitude and direction of the resultant unidirectional field produced across the diameter of said first core.

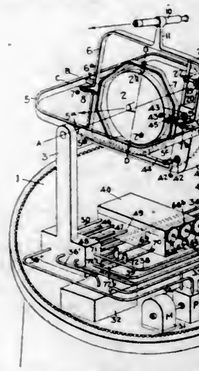
2,405,051
STABILIZING MECHANISM
Edward J. Poitras, Jackson Heights, and James D. Tear, Great Neck, N. Y., assignors to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application June 26, 1936, Serial No. 87,596
4 Claims. (Cl. 33—46)

1. In a stabilizing mechanism for stabilizing a range finder mounted on a movable platform and rotatable about its own axis, the combination comprising a gyroscope support mounted adjacent the range finder, a gyroscope mounted in the support for movement about an axis parallel to the axis of rotation of the range finder and an axis perpendicular thereto, and means for effecting rotation of the range finder in accordance with relative movement of the gyroscope and its support about the axis parallel to the axis of rotation of the range finder including a cylinder pivotally mounted about an axis parallel to the axis of the range finder, a plunger within the cylinder, an arm connected to the range finder and the plunger, and means actuated by move-



ment of the gyroscope for controlling the flow of hydraulic medium to the cylinder.

2,405,052
GYROSCOPIC MECHANISM
Edward J. Poitras, Jackson Heights, James D. Tear, Great Neck, and William H. Newell, New York, N. Y., assignors to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application October 15, 1935, Serial No. 45,080
2 Claims. (Cl. 33—46)

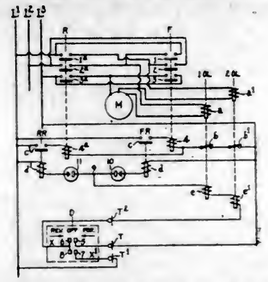


1. In an angle gyro for tracking a target, the combination comprising a universally mounted gyroscope, hydraulically operated means connected to said gyroscope for applying precessing forces thereto, means for producing precessing forces proportional to the movement of the target including a hydraulic pressure calculating mechanism for producing resultant pressures of a hydraulic medium proportional to the angular rate of change in bearing and elevation of a moving target, and means for transmitting said resultant pressures to said hydraulically operable means to operate the same to effect precession of the gyroscope.

2,405,053
CONTROLLER FOR ELECTRIC MOTOR-DRIVEN TRAVELING MACHINES
Edward J. Posselt, Fox Point, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 18, 1944, Serial No. 527,058
4 Claims. (Cl. 172—179)

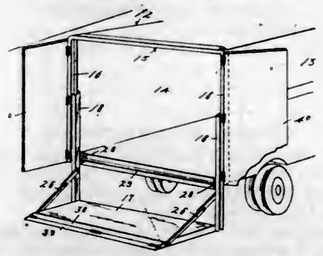
4. In a controller for a motor driven traveling machine, in combination, an alternating current

supply circuit, a reversing controller for the motor to be mounted in fixed position, said controller comprising electroresponsive windings to be energized selectively for motor reversals and comprising a motor protective device having operating means and a holding winding, pilot contacts to travel with the traveling machine and having trolley connections with said supply circuit, a trolley connection common to said pilot contacts,



said first mentioned windings and said holding winding, and rectifiers respectively in series with said first mentioned windings to necessitate energization thereof selectively and to enable their energization selectively by said pilot contacts through said common trolley connection, said holding winding being traversed by and responsive to the current thus supplied to either of said first mentioned windings.

2,405,054
ELEVATING ENDGATE
Orville R. Pringle, Minneapolis, Minn.
Application January 24, 1945, Serial No. 574,358
5 Claims. (Cl. 214—75)

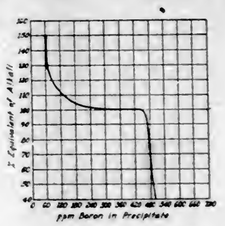


1. The combination with a vehicle body, of means for mounting a gate on the vehicle body for raising and lowering movements, a gate hinged to the gate mounting means for movement from an upturned upright position into an outturned horizontal position, means for operating the gate mounting means to raise the gate, and automatic means for moving the gate from its outturned horizontal position into its upright position during the raising thereof, said automatic means may be manually controlled to render the same operative or inoperative, at will.

2,405,055
MAGNESIUM HYDROXIDE FROM SEA WATER
Harold A. Robinson, Ralph E. Friedrich, and Robert S. Spencer, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application June 30, 1943, Serial No. 492,860
7 Claims. (Cl. 23—201)

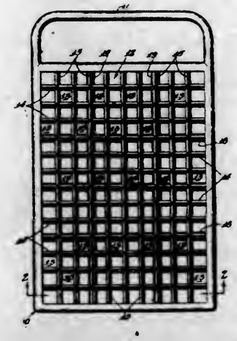
1. The method of precipitating magnesium hydroxide from sea water in a rapidly settling

form having a low boron content, which comprises diluting the sea water with more than an equal volume of previously treated sea water free from dissolved magnesium salts and containing suspended magnesium hydroxide in amount at least corresponding to the original magnesium



content of such sea water, adding an alkali to the mixed solutions in amount which exceeds the chemical equivalent of the dissolved magnesium salts by not more than 10 per cent, and mixing such alkali therewith by vigorous agitation to maintain in the liquid a soluble alkalinity above a pH of 10.5.

2,405,056
SAFETY GRATER
Irving Rosenbloom, New York, N. Y., assignor to Renwal Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Application December 31, 1941, Serial No. 425,073
10 Claims. (Cl. 146—177)

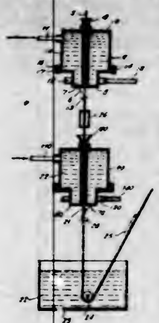


1. A grater of plastic composition comprising a frame supporting a lattice network composed of intersecting series of parallel bars integrally molded with said frame, said bars being substantially triangular in section and terminating in grating edges lying in a common surface substantially including one face of said frame.

2,405,057
MAKING INSULATED WIRE
Aaron Rosenstein, New York, and Harry Dolan, Brooklyn, N. Y., assignors to Rosenstein Bros., New York, N. Y., a firm composed of Aaron Rosenstein, Charles Rosenstein, and Irving J. Fuller, partners
Application September 10, 1942, Serial No. 457,842
1 Claim. (Cl. 154—2.26)

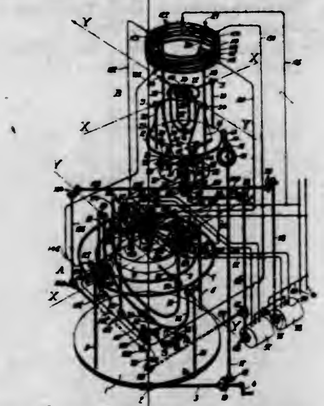
The method of manufacturing insulated wire which comprises, in combination, continuously extruding an insulating material and winding it upon a conducting metal core, baking the insu-

lating winding, continuously extruding a non-elastic artificial thread and winding it upon the



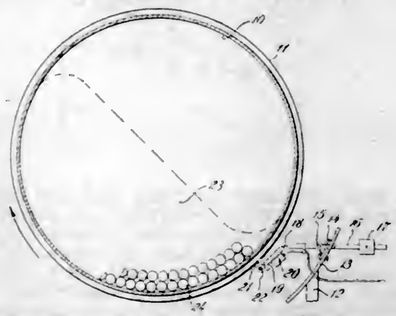
insulating layer, and then water proofing the artificial thread covering.

2,405,058
GYROSCOPIC APPARATUS
Elliott P. Ross, Forest Hills, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application March 31, 1932, Serial No. 602,372
Renewed November 4, 1938
11 Claims. (Cl. 33—204)



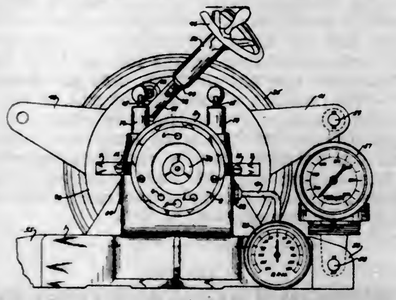
3. In a gyroscopic system, the combination of a rotatable base, a gyroscope having a casing and adapted to maintain its spinning axis in a desired angular position, supporting means for the gyroscope mounted on said base and rotatable therewith and with said casing about an axis, said means permitting said gyroscope to stray freely, a gyroscope position indicating device remotely located relative to said gyroscope, a second rotatable base, supporting means for the device mounted on said second base and rotatable therewith and with said device about an axis bearing a predetermined relation to the first mentioned axis, an operating connection between the bases of the first and second mentioned supporting means operable to simultaneously and synchronously turn both of said supporting means about said axes, means controlled by said gyroscope and its supporting means as the gyroscope strays effective to move said indicating device in accordance with the straying of said gyroscope from its desired position, and means having individual controls operable at said indicating device and extending to said gyroscope, said last mentioned means being provided thereat with torque-applying means responsive to said individual controls to be effective to precess said gyroscope back to the desired position in accordance with the indications of said indicating device.

2,405,059
INDICATING DEVICE FOR MATERIAL TREATING APPARATUS
Viggo Sahmel, Forest Hills, N. Y., assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application October 11, 1943, Serial No. 505,732
12 Claims. (Cl. 241—33)



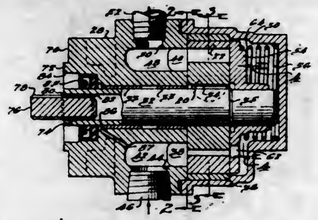
1. Apparatus for the treatment of material, which comprises a chamber mounted for rotation and containing bodies for acting on material supplied to the chamber, the material and bodies tumbling within the chamber as the latter rotates and causing radial sonic vibration of the wall of the chamber, and pick-up means including an element sensitive to said vibrations and a solid pathway through which said vibrations are transmitted from the chamber wall to the element, said pathway including a part mounted on the outside of the chamber wall and rotating therewith.

2,405,060
STARTER TEST STAND
Philip F. Scofield, Cleveland Heights, Ohio, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application June 29, 1944, Serial No. 542,700
4 Claims. (Cl. 73—118)



2. In a starter test stand, a housing adapted to position a starter for driving engagement with a rotatable shaft, a pair of clamping arms pivoted on said housing for rotational and longitudinal movements, individual cam means in said housing for moving said arms longitudinally to establish and maintain a firm clamping engagement with a starter base flange and to swing said arms outwardly to release said base flange.

2,405,061
PUMP STRUCTURE
Clarence W. Shaw, Grosse Pointe Woods, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 2, 1942, Serial No. 467,565
5 Claims. (Cl. 103—42)



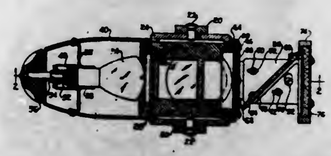
1. In a rotary pump, in combination, a housing having a substantially flat face therein, a shaft rotatably mounted in said housing in perpendicular relation with respect to said face and projecting therebeyond, a pair of rotors within said housing arranged with one end face of each thereof in opposed and parallel relation with respect to said face of said housing and one of said rotors being driven by said shaft, a wall within said housing movable axially with respect to said rotors and relatively rotatable with respect thereto, said wall having a flat face arranged in parallel and opposed relation with respect to the end faces of said rotors remote from said face of said housing, spring means constantly urging said movable wall toward said face of said housing, said face of said housing being provided with a pair of ports therein one registering with the suction side of said rotors and the other registering with the discharge side of said rotors forming the sole means for admitting and discharging fluid through said housing to and from the space within said rotor, the outer of said rotors being peripherally imperforate and bodily shiftable axially in said housing whereby said outer rotor may follow the movement of said movable wall in the movement of the latter toward and from said face of said housing in response to variations in pressure on the discharge side of said pump structure, whereby to provide a by-pass passage of varying cross-sectional area between said outer rotor and said face of said housing between said ports and said movable wall being formed to provide constant open communication between the suction side of said pump and that face of said wall remote from said rotors.

2,405,062
CABLE TENSION REGULATOR
Robert M. Sheldon, Los Angeles, Calif.
Application August 25, 1943, Serial No. 500,021
1 Claim. (Cl. 267—1)



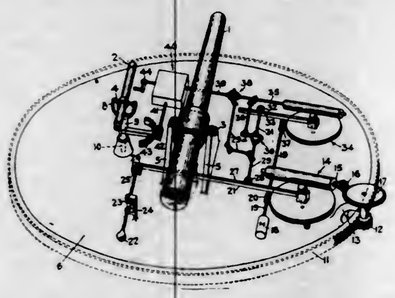
In an aircraft, a tension regulator for regulating the tension of a cable extending to a control in the aircraft, comprising a closed hydraulic fluid filled cylinder connected with a support, a piston within the cylinder having a rod extending therefrom to the exterior and having engagement with the cable to be regulated, a compression spring in the outer end of the cylinder in engagement with the piston tending to move said piston for tensioning of the cable, said piston having restricted capillary passageway therethrough for flow of fluid from one side of the piston to the other as the piston moves in the cylinder, an outer flat face on said piston affording a solid area surrounding the capillary passageway with a solid area to a substantial extent in all directions in the plane of said face, an annular valve surrounding the piston rod having an inner flat annular face parallel with the outer flat face of said piston in front of and opposing the mouth of said restricted passageway through the piston, said inner flat valve face opposing an area of said outer flat piston face several times as great as the passageway cross-sectional area, an abutment on the piston rod for said valve, a valve spring normally holding said valve against said abutment to leave only a narrow flow restricting capillary gap between said inner face of the valve and the piston and being spaced a substantial radial distance from said passageway and with substantial area of the opposed flat faces intervening, said valve spring being comparatively light in order to hold said valve open for flow through said restricted gap and piston passageway only during comparatively very slow movement of the piston in response to variation in length of the cable under temperature changes, whereby said piston may move outwardly in response to temperature contraction of the cable and said compression spring may move said piston inwardly in response to temperature expansion of the cable to keep said cable under tension, and whereby upon control operation pull on the cable and piston the low rate of flow through said capillary gap and passageway will substantially immediately cause the pressure in the outer end of the cylinder to close the valve by bringing said opposed flat face areas into abutment to seal the passageway against fluid flow for hydraulic lock of the piston against any material outward movement thereof while the pull thereon is maintained.

2,405,063
COLLIMATOR
Kenneth O. Sisson, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 17, 1944, Serial No. 518,630
2 Claims. (Cl. 88—2.3)



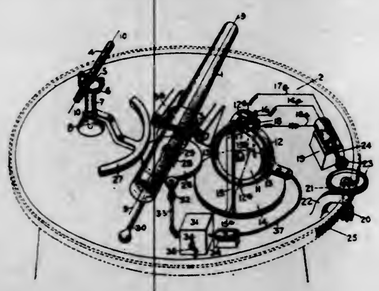
1. A collimator comprising a concave spherical mirror, an illuminated reticle positioned substantially on the axis of said mirror in its principal focal plane, a semi-reflecting transparent plate in the path of light between the reticle and said mirror positioned at an angle of 45 degrees with respect to a first reference plane parallel to the axis of the mirror and perpendicular to a second reference plane also perpendicular to the first reference plane and parallel to the axis of the mirror, and a second transparent glass plate positioned at an angle of 45 degrees to said second reference plane and perpendicular to the first reference plane, said glass plate having refraction characteristics equivalent to said semi-reflecting plate and being located in the path of light between the reticle and the semi-reflecting plate.

2,405,064
GUN SIGHT
James D. Tear, Great Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application September 25, 1940, Serial No. 358,246
11 Claims. (Cl. 89—41)



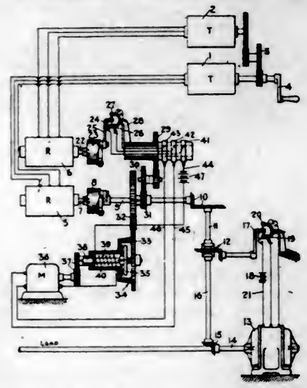
1. In combination, a gun mounted for angular movement, a member having a movement proportional to the angular velocity of the gun, a sight mounted for angular movement relative to the gun, differential means actuated in part by the movement of the member for directly moving the sight towards the gun for an increasing rate of angular velocity of the gun, and other means for actuating the differential means by the movement of the member for moving with delayed action the sight relative to the gun in reverse direction.

2,405,065
POWER-DRIVEN GUN WITH AUTOMATICALLY POSITIONED SIGHT
James D. Tear, Great Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application November 18, 1940, Serial No. 366,093
8 Claims. (Cl. 89—41)



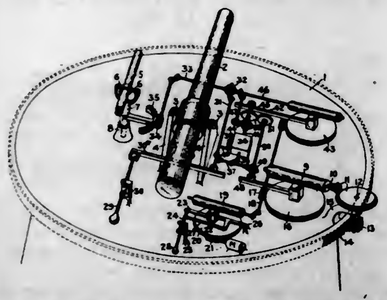
1. In combination, a base mounted for angular movement, a gun mounted on the base, a sight mounted for angular movement on the base, a frame mounted for angular movement on the base, a gyro mounted for angular movement in the frame, all axes of movement being substantially parallel, power means responsive to relative angular movement between said gyro and said frame to angularly move said base, a control member for angularly displacing in respectively different amounts the sight and the frame relatively to the gun, and means settable by the control member for applying a precessing force to the gyro.

2,405,066
POSITION REPRODUCING MECHANISM
James D. Tear, Great Neck, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application March 28, 1942, Serial No. 436,685
9 Claims. (Cl. 172—239)



1. A position reproducing mechanism comprising coarse and fine receivers of a self synchronous transmission system having a predetermined ratio of relative movement, a servo-motor, an energizing circuit for the servo-motor including a movable contact, operating means for the movable contact having a yieldable drive connection with and biased to a definite angular relation to the fine receiver, a response connection from the servo-motor operative to neutralize the effect of the operating means upon the movable contact, a pair of movable contactable elements one coupled to be driven by the coarse receiver and the other coupled to be driven in the same direction by the contact operating means at the said predetermined ratio of movement thereto, the said elements being positioned a definite distance out of contact when the contact operating means is in its biased relation to the fine receiver, and means actuated by the engagement of the contactable elements for supplementing the bias of the operating means.

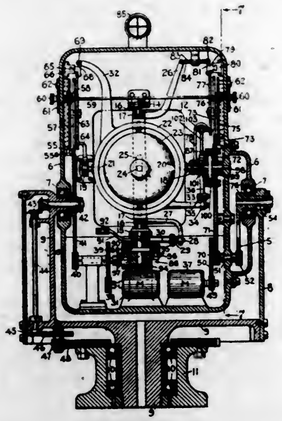
2,405,067
GUN SIGHT
James D. Tear, Great Neck, and Charles W. Buckley, Mount Vernon, N. Y., assignors to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application November 2, 1940, Serial No. 363,956
8 Claims. (Cl. 89—41)



5. In combination, an angularly movable base, a gun mounted on the base for angular movement therewith, a variable speed drive including

an output member connected to angularly move the base at a variable rate and a rate member adapted to vary the rate in accordance with its position, a sight mounted on the base for angular movement relative to the gun, a movable control member, means for positioning the rate member directly in accordance with the position of the control member, means for initially moving the sight in one direction in accordance with the movement of the control member, means actuated by movement of the control member for introducing additional movement into the rate member, a delayed action relay actuated in response to movement of the control member, means actuated by the relay for removing the additional movement of the rate member, and means actuated by the relay to move the sight in a direction opposite to its initial movement.

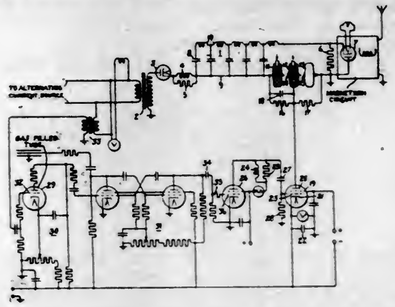
2,405,068
GUN SIGHT
James D. Tear, Great Neck, and Elliott P. Ross, Forest Hills, N. Y., assignors to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Application March 20, 1941, Serial No. 384,236
15 Claims. (Cl. 33—49)



1. In combination with a manipulatable device, sighting means comprising a casing pivoted on the device for relative angular movement about a predetermined axis, a sight carried by the casing, a gyroscope universally mounted in the casing, a motor mounted on the casing and controlled by relative angular movement between the casing and the gyroscope about the predetermined axis, a connection between the motor and the device to impart angular movement to the casing relative to the device, means actuated by the motor for developing a force proportional to the angular rotation of the motor, and means for applying the force so developed as a precessional force to the gyroscope.

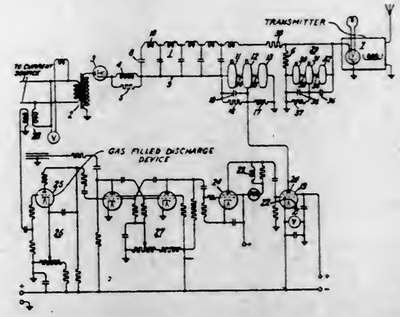
2,405,069
PULSE GENERATING SYSTEM
Lewi Tonks, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 23, 1942, Serial No. 432,009
12 Claims. (Cl. 320—1)

1. In combination, a capacitive device adapted to store electric energy in electrostatic condition and to produce a discharge voltage pulse approximating rectangular wave form, an electrical power source, means to connect said source to said capacitive device to store a charge therein, a load, three spark gap members providing two spark gaps in series with said capacitive device and said load, and means to initiate discharge of



said device through said load including an electron discharge device having an electrode connected to at least one of said spark gap members abruptly to change the potential of one of said members and thereby to change the initial apportionment of voltage across said gaps.

2,405,070
SQUARE WAVE PULSE GENERATING SYSTEM
Lewi Tonks, Schenectady, and Milton Davis, Alplaus, N. Y., assignors to General Electric Company, a corporation of New York
Application February 23, 1942, Serial No. 432,010
5 Claims. (Cl. 250—37)



1. The combination with means to produce across a load a voltage pulse approaching rectangular wave form, the voltage of said pulse dropping from its maximum to its minimum value during a relatively short time interval, of spark gap switching means to short circuit said load a predetermined time interval after the initiation of said pulse to cause said voltage to drop abruptly from said maximum to said minimum value whereby said voltage pulse becomes of substantially exactly rectangular wave form.

2,405,071
PULSE GENERATING SYSTEM
Lewi Tonks, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 1, 1943, Serial No. 504,587
11 Claims. (Cl. 171—97)

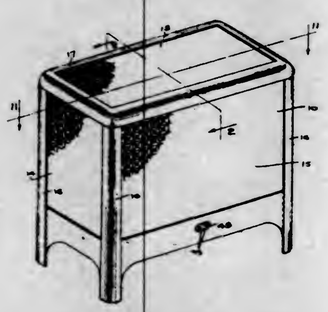
11. An electric pulse generating system comprising a source of alternating potential, a first

capacitive storage element, means including a rectifier for connecting said first capacitive element to said source to be maintained continuously charged to a substantially constant unidirectional potential, a second capacitive storage element connected to be charged through an impedance device from said first capacitive storage element, a load device, three spaced electrodes defining therebetween two spark gaps in series circuit relation between said second capacitive



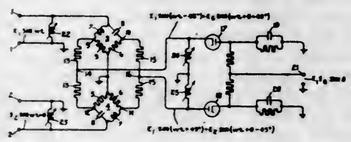
storage element and said load device, means for deriving an alternating potential of opposite phase with respect to said source potential, and voltage dividing means associated with said potential of opposite phase and having an intermediate point connected to the intermediate of said three electrodes thereby to initiate a discharge of said second capacitive storage element through said load device once per cycle of said source potential.

2,405,072
SPACE HEATER
David M. Trilling, Merion, and George H. Rich, Philadelphia, Pa., assignors to David M. Trilling, Merion, and Harry Montague, Philadelphia, Pa., a partnership
Application December 7, 1944, Serial No. 567,032
4 Claims. (Cl. 219—38)



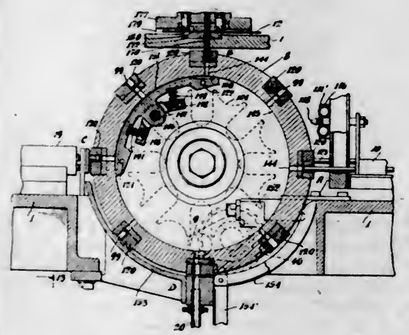
1. In a space heater of the character described, in combination, an assembly comprising an open-ended inner casing, an electrical heating unit disposed within said casing, said heating unit being of hollow construction to provide a through air passage extending vertically therethrough from end to end parallel to the axis of the casing, and means for supporting said heating unit within said casing with the opposite ends of said unit open to the flow of air therethrough from and to the atmosphere; and an outer casing having its side, top and bottom walls perforated over a major portion thereof, said assembly being disposed within and supported by said outer casing to form main inner and auxiliary outer air stream flues, all of which latter, as well as the air passage through said heating unit, being freely open to atmosphere by way of their opposite ends and being arranged to provide a plurality of parallel passages for the unidirectional flow of air upwardly through the space heater.

2,405,073
PHASE COMPARATOR
Roy E. Troell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 28, 1943, Serial No. 507,952
3 Claims. (Cl. 172—245)



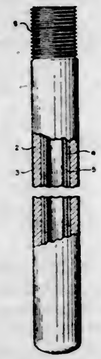
1. In a phase comparator, grounded input circuits for the voltages to be compared in phase, lagging and leading phase shifting networks across each of the input circuits, center tapped decoupling impedances respectively cross connecting the lagging phase shift voltage of one and the other input circuit to the leading phase shift voltage of said other and one input circuit, square law detectors for the voltages at said center taps, and means for subtracting the detected voltages.

2,405,074
METHOD AND MACHINE FOR ASSEMBLING ARTICLES
James E. Underwood, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 12, 1943, Serial No. 482,739
14 Claims. (Cl. 154—1)



14. In combination with an assembly machine including elements arranged to seat a part within a cup-like article and to present the thus seated part to a uniting station, a work translating device adapted to contain the assembly and to carry the same to said station, a reciprocating member operating at said station to enter said cup-like article and contact the part seated thereon and perform work on said assembly, and means positioned at said station to prevent withdrawal of the assembly from the translating device during withdrawal of the reciprocating member from the cup-like article, said means being an element positioned across the line of travel of said reciprocating member and containing an aperture sized to pass said reciprocating member therethrough and sized to prevent passage therethrough of said cup-like article upon withdrawal of said reciprocating member from said article.

2,405,075
PROTECTING TUBE
Joseph P. Vollrath, Glenside, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 27, 1943, Serial No. 512,058
1 Claim. (Cl. 136—4)



A thermocouple protecting tube comprising an outer closed-end tube made of mild steel and covered with a thin layer of chromium, an inner closed-end tube received in telescoping relation by said outer tube and made of a fine grained, vitrified, gas impervious ceramic material, the space between said tubes being filled with a granular refractory material.

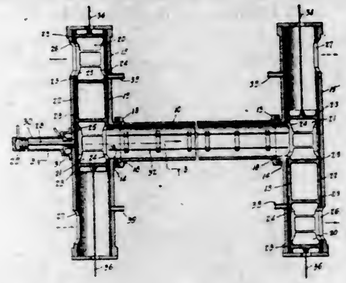
2,405,076
THERMOCOUPLE
Joseph P. Vollrath, Glenside, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 30, 1944, Serial No. 538,079
9 Claims. (Cl. 136—4)



1. A thermocouple assembly comprising a pair of thermocouple wires, supporting means for said wires to hold them in a parallel extended position, and automatic means to apply a blow to said supporting means when said thermocouple wires are moved with a predetermined pressure into engagement with an object whose temperature is to be measured to force said thermocouple wires into engagement with the object.

2,405,077
VULCANIZER
Elmer J. von der Heide, Akron, Ohio
Application September 4, 1943, Serial No. 501,200
3 Claims. (Cl. 18—6)

3. The combination with an elongated vulcanizing chamber containing steam under pressure, of separate means for admitting articles to one end of said chamber and for withdrawing articles from the other end of said chamber without releasing the steam pressure in said chamber, each of said means comprising a housing extending across an end of said chamber and having an intermediate side opening communicating with said chamber, a member in each housing forming two separate article receiving compartments therein, each of said members being reciprocable to align said compartments with said opening alternatively, and each of said housings having additional openings affording access to said compartments alternatively, means for simultaneously reciprocating said members, and means reciprocable in a direction lengthwise of said chamber for advancing articles from an aligned compartment into and lengthwise of said chamber.



2,405,078
METHOD AND COMPOSITIONS FOR LOCATING SURFACE DISCONTINUITIES
Richard A. Ward, Cleveland, Ohio, assignor, by mesne assignments, to Robert C. Switzer, South Euclid, Ohio, and Joseph L. Switzer, Cleveland Heights, Ohio
No Drawing. Application April 18, 1944, Serial No. 531,648
28 Claims. (Cl. 250—71)

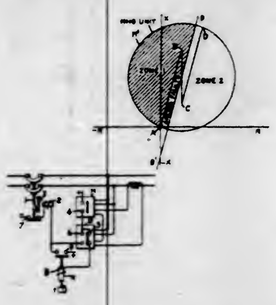
1. The method of detecting in a test body subsurface flaws having surface openings comprising the steps of applying to the surface of the body a water-emulsifiable luminescent testing agent which will penetrate the surface openings of the subsurface flaws, washing the testing agent from the surface of the body, and exuding from the surface openings of the flaws a portion of the testing agent which had penetrated into the flaws, whereby the location and extent of the flaws will be revealed by the visible light emitted by the luminescent testing agent on the surface of the test body.

2,405,079
SUPERVISION OF ELECTRIC SYSTEMS
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application September 13, 1943, Serial No. 502,156
30 Claims. (Cl. 175—294)



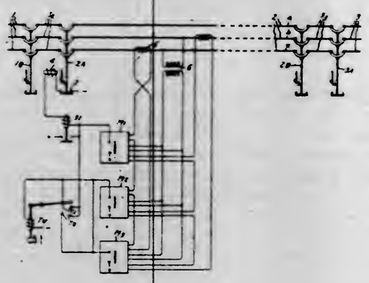
1. An arrangement for effecting a control operation when an out-of-step condition occurs on an alternating current system comprising a pair of electroresponsive devices energized from said system so as to have operating characteristics which when represented on a resistance-reactance diagram for said system are respectively lines substantially perpendicular to the locus of the input impedance of said system at different points on said locus with the spacing between said lines being such as to define a range of out-of-step conditions of said system.

2,405,080
RELAY PROTECTIVE ARRANGEMENT
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application October 6, 1944, Serial No. 557,428
16 Claims. (Cl. 175—294)



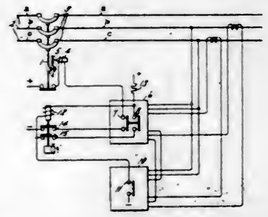
1. A relay protective arrangement for an alternating current circuit having a series connected capacitor comprising an ohm relay connected to said circuit and having on a resistance-reactance polar diagram for said circuit an impedance characteristic which crosses the portion of the fault impedance characteristic of said circuit representing the impedance of said capacitor and which does not cross the portion of said fault impedance characteristic representing the impedance of the portion of said circuit between the points where said relay and capacitor are connected.

2,405,081
RELAY ARRANGEMENT FOR PROTECTING ELECTRIC POWER SYSTEMS
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application October 6, 1944, Serial No. 557,429
24 Claims. (Cl. 175—294)



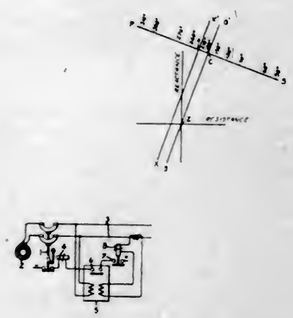
1. In a relay arrangement for completing the trip circuit of a circuit interrupter at one end of a line section of an electric power system, the combination of a mho relay having a reach extending from said one end to a point on said line section near the far end thereof and also having contacts in said trip circuit, a timing device controlling contacts in said trip circuit, and a second mho relay having a reach extending from said one end to a point beyond the far end of said line section for initiating the operation of said timing device.

2,405,082
RELAY PROTECTIVE ARRANGEMENT
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application October 6, 1944, Serial No. 557,430
6 Claims. (Cl. 175—294)



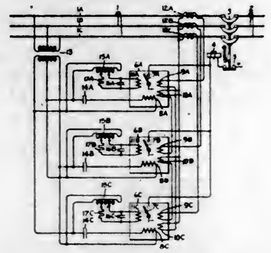
1. An arrangement for effecting a predetermined operation in response to an out-of-step condition in an electric circuit which effects the operation of a mho relay connected to said circuit at a predetermined point in said circuit comprising a modified mho relay having such an impedance characteristic that when said modified mho relay is connected to said circuit at said point said modified mho relay is always operated before said mho relay during an out-of-step condition in said circuit, and means for effecting said predetermined operation in response to said modified mho relay being operated for a predetermined time interval prior to the operation of said mho relay.

2,405,083
OUT-OF-STEP RELAY ARRANGEMENT
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application October 6, 1944, Serial No. 557,431
9 Claims. (Cl. 175—294)



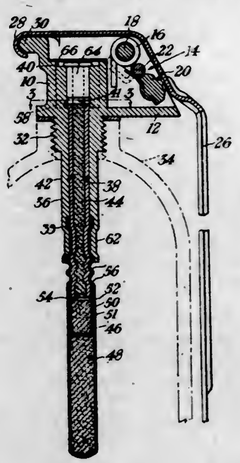
1. A relay arrangement for effecting a predetermined control operation at a desired point in an alternating current power system in response to an out-of-step condition on said system comprising an ohm relay arranged so that when it is connected to said system at said desired point it has on a resistance-reactance diagram for said system an impedance characteristic which is approximately parallel to the portion of the system impedance characteristic over which the electrical center may vary during actual operating conditions of the system, control means responsive to a predetermined operation of said relay, and means for preventing the operation of said relay when the current in said system at said point is below a predetermined value.

2,405,084
PROTECTIVE APPARATUS
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application November 9, 1944, Serial No. 562,673
4 Claims. (Cl. 175—294)



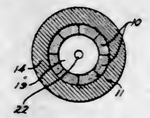
1. In a fault responsive relay for an alternating current circuit, a movable member, means for exerting on said member an operating torque in response to a fault on said circuit, voltage restraint means for said member comprising a plurality of windings energized by voltages proportional to the voltage of said circuit, and means for delaying for a predetermined time any substantial change in the voltage applied to said windings when the voltage of said circuit suddenly decreases.

2,405,085
AMMUNITION TIME FUSE
Charles F. Zappone, Greensburg, Pa., assignor to Paragon Manufacturing Company, New Derry, Pa., a corporation of Pennsylvania
Application April 6, 1943, Serial No. 481,989
2 Claims. (Cl. 102—85.6)



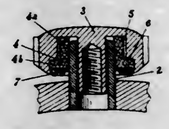
1. A time fuse for a grenade casing comprising in combination, a hollow body having the opening therein enlarged at one end, a plurality of spaced ribs projecting from the interior wall of said enlarged open end and reducing the free area thereof, a primer supported by said ribs in said free area, a detonator element projecting from said body opposite said enlarged open end, and a time delay element in said body including a tubular portion having one end adjacent said primer and the other end connected to said detonator element, said tubular portion having a plurality of radial projections formed on said adjacent end and extending between said ribs for sealing said portion to said body.

2,405,086
METHOD OF MAKING ABRASIVE WHEELS
Arthur J. Bevillard, Anaheim, Calif., assignor to Bevil Company, San Francisco, Calif., a copartnership
Application July 19, 1944, Serial No. 545,657
11 Claims. (Cl. 51—309)



1. The method of making an abrasive annulus for tools of the character described, that includes compacting under pressure a pulverulent metal and abradant composition to form individual segments of the annulus, placing said segments in annular arrangement and heating the segments to a temperature at which said segments fuse together, and cooling the resulting mass to form a continuously annular integrated and homogeneous body of the solidified metal.

2,405,087
TIGHT WINDING DEVICE FOR TIMEPIECES
Joseph Antoine Boninchi, Geneva, Switzerland, assignor to J. Boninchi & Ses Fils, Geneva, Switzerland, a firm of Switzerland
Application August 25, 1942, Serial No. 456,053
In Switzerland September 30, 1941
4 Claims. (Cl. 58—90)

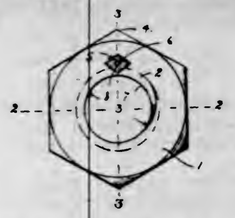


1. A tight winding device for time pieces, the combination with a case body having a pendant neck fixed thereto, of a crown having an annular recess, a compressible packing fitted about said neck and including a cylindrical main body spaced radially from the side wall of said recess and a lower flange projecting outwardly from the periphery of said main body, said main body having sealing contact with said pendant neck, a shoulder on the outer wall of said recess and a clamping piece borne by said crown, said flange of the packing being compressed between and having sealing contact with said shoulder and said clamping piece.

2,405,088
SAFETY NUT
Bernard A. Clauson, Duluth, Minn.
Application December 18, 1944, Serial No. 568,604
2 Claims. (Cl. 151—7)

1. Means for retaining an internally screw threaded nut upon a similarly externally screw threaded member comprising a bore of diamond shape in cross section directed transverse the roots of the threads in said nut with the obtuse angles of said bore aligned radially in respect to the axis of said nut to provide a plurality of angular anchoring channels longitudinally of said bore and an integral rubber core of diamond

shape in cross section anchored within said bore with an obtuse angular portion thereof extending



inwardly and intermediate of the roots of each pair of threads of said nut.

2,405,089

GASEOUS DISCHARGE DEVICE

Palmer H. Craig, Gainesville, Fla., assignor, by mesne assignments, to Invex Inc., a corporation of Florida

Application September 3, 1943, Serial No. 501,069
7 Claims. (Cl. 176—122)



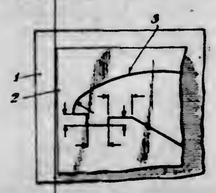
1. A gaseous discharge lamp comprising an elongated envelope of glass sealedly closed at both ends by glass end walls; a filling of gas in the tube at predetermined pressure; discharge supporting electrodes in the opposite ends of the tube each comprising electrode material consisting of molecules of metal intermingled with molecules of the inner glass wall surface of the envelope; a current conductor for the electrode comprising an uninterrupted continuation of the electrode material extending sealedly through the wall, and continuing uninterruptedly over a portion of the exterior wall of the envelope to provide a contact; and metal terminals connected respectively to the contacts at the opposite ends of the tube.

2,405,090

MANUFACTURE OF TEMPLATES

George B. Crouse, East Setauket, and Francis A. Holt, Shoreham, N. Y., assignors, by mesne assignments, to Photo-Positive Corporation, New York, N. Y., a corporation of New York

Application December 1, 1941, Serial No. 421,190
2 Claims. (Cl. 41—41)



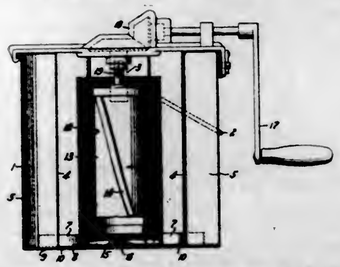
1. The method of transferring a drawing to a template blank, which comprises applying a light-sensitive emulsion containing a metal salt to a dimensionally stable backing material comprising a moisture-resistant base such as rubber hydrochloride, exposing said emulsion to a drawing, treating said emulsion to form a reproduction of the drawing, placing the emulsion side of said backing in contact with a template blank having a metal surface higher in the electromotive series than the metal of said salt, while the surface of one of said materials is moist, and maintaining said surfaces in contact until a representation of the lines of said drawing forms on the flat surface of the template blank by chemical reaction of the salt.

2,405,091

COOLING APPARATUS FOR BOTTLED BEVERAGES

Alexander M. Culbreth, Valdosta, Ga.

Application June 27, 1945, Serial No. 601,779
7 Claims. (Cl. 62—149)



1. A cooler for bottled beverages and the like comprising a receptacle for containing the bottles of beverages and a body of liquid coolant in contact therewith, and means for agitating and circulating the coolant around said bottles, said means including a stirrer rotatable within the body of coolant, and relatively fixed baffle means partially surrounding the bottles of beverages and serving to direct the circulation of the coolant therearound.

2,405,092

AIRCRAFT LANDING RUNWAY

Charles R. Faben, Toledo, Ohio

Application May 31, 1943, Serial No. 489,195
6 Claims. (Cl. 94—7)



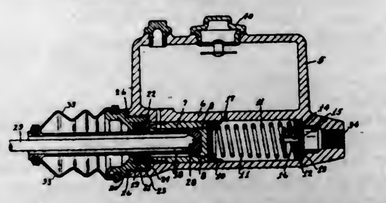
1. A landing runway for airplanes comprising a relatively hard bed, and a surface coating on said bed of coal tar pitch adapted to be rendered substantially plastic by heat generated upon contact therewith by rubber airplane tires during landing operations of the plane.

2,405,093

MASTER CYLINDER AND RESERVOIR

Ludger E. La Brie, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California

Application January 29, 1945, Serial No. 575,136
1 Claim. (Cl. 60—54.6)



In a hydraulic brake mechanism, a cylinder, a hollow piston therein having one end open and

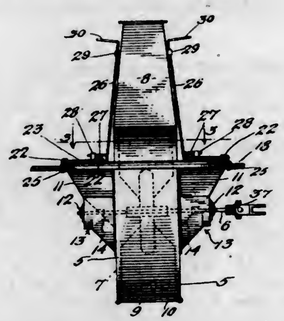
the other end closed, a tubular piston rod having a closed end seated against the inside of the closed end of the hollow piston, a resilient guide for the piston rod permitting it to assume alignment with the piston axis, a connecting rod having an end seated against the inside of the closed end of the piston rod within the confines of the piston, and actuating means for the connecting rod causing movement of the external end of the connecting rod out of alignment with the piston rod, the difference in diameters between the connecting rod and the bore of the piston rod being sufficient to prevent the connecting rod from contacting the inner wall of the piston rod by reason of the lateral movement of the actuated end of the connecting rod.

2,405,094

TWIN FEED GRAIN BLOWER

Ferris E. Michael, Rozel, Kans.

Application July 14, 1945, Serial No. 605,033
6 Claims. (Cl. 214—83)



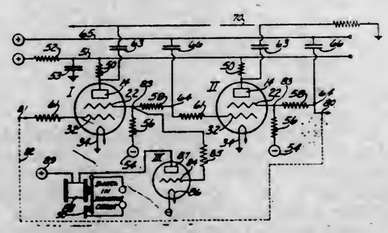
3. In combination with the floor of a truck body or the like having an opening therein, a grain unloading blower fitted and secured in said opening and including a blower casing having side inlets and an upwardly directed peripheral outlet, and grain feed hoppers formed on opposite sides of the blower casing and having the tops thereof located substantially flush with said floor.

2,405,095

ELECTRONIC DEVICE AND CONTROL MEANS THEREFOR

Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application November 7, 1940, Serial No. 364,716
18 Claims. (Cl. 250—27)



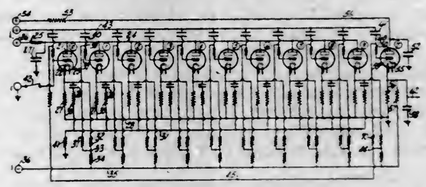
6. In combination, an electron gas discharge tube having an anode, a cathode, a control grid, and a current tapping member for collecting positive charges from the ionized gas when the tube is conductive; an electron tube relay having a control grid normally biased to prevent conduction in the tube; means connecting the current tapping member of the gas discharge tube to the control grid of the electron relay tube; and an indicator positioned and operated by the anode-cathode circuit of the relay tube whereby the state of conductivity or state of non-conductivity of the gas discharge tube may be indicated.

2,405,096

ELECTRONIC ACCUMULATOR

Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application June 4, 1941, Serial No. 396,505
5 Claims. (Cl. 315—323)



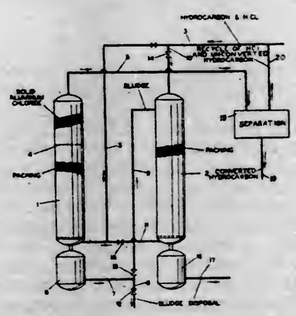
1. In combination, a plurality of two or more gaseous electron tubes each having an anode and a cathode arranged in an endless operating chain network; means for causing conduction to take place in the tubes in sequence; and means to have the sequential conduction take place in but one tube at a time by having the act of conduction commencing in a tube causing, by means of potential variations in the network, the extinguishing of every other then conductive tube, said means including connecting the cathodes of the tubes each through a capacitor to a common conductor.

2,405,097

PROCESS FOR NONDESTRUCTIVE HYDROCARBON CONVERSION

Frederick C. Neuhart, Shidler, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 5, 1942, Serial No. 460,854
1 Claim. (Cl. 260—683.5)



A process for the isomerization of normal butane to isobutane which comprises passing an anhydrous gaseous mixture comprising a major proportion of normal butane admixed with minor proportions of hydrogen chloride through at least one packed chamber containing a packing ma-

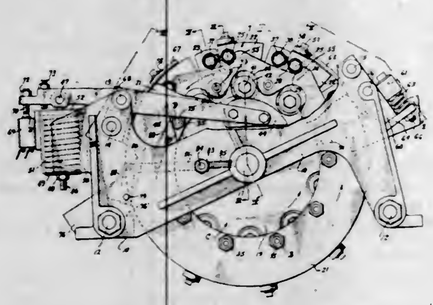
terial adapted to effect intimate gas-liquid contact, passing a partially deactivated aluminum chloride sludge from a source hereinafter described into said chamber for contact with said gaseous mixture at conditions of temperature, pressure, and contact time to effect a preliminary conversion of normal butane and to utilize catalytic activity of said sludge, passing resulting gaseous mixture into the bottom of a catalyst chamber for upward flow therethrough, said catalyst chamber being provided in an upper section thereof with a solid anhydrous aluminum chloride catalyst and in a lower section thereof with a packing material over which aluminum chloride sludge formed from said catalyst becomes distributed, at conditions of temperature, pressure, and contact time to effect in said lower section a partial production of isobutane and a partial deactivation of said sludge and to effect in said upper section a further production of isobutane and the formation of said sludge, removing partially deactivated sludge from the bottom of said catalyst chamber for passage into said packed chamber as hereinabove described, passing gases from the top of said catalyst chamber to separating means, separating isobutane product, and recycling hydrogen chloride and unconverted normal butane to further isomerization.

2,405,098

TESTING MACHINE FOR METALLIC CARTRIDGE BELT LINKS

Per O. Persson, South Bend, Ind., and Carl W. Spohr, Chicago, Ill., assignors to the United States of America, as represented by the Secretary of War

Application February 22, 1943, Serial No. 476,746
7 Claims. (Cl. 209—79)



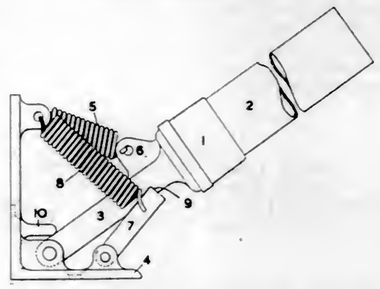
6. A stretch testing machine for metallic links of the type disclosed, comprising a continuously moving carrier, a plurality of testing sets mounted on said carrier for travel through an orbit, means for applying links to said testing sets, testing means in the path of said sets for subjecting links on said sets to a stretch test, means in the path of said sets effective to release the tested links therefrom, discharge mechanism for the tested links, a movable abutment on said carrier normally in inoperative position, said discharge mechanism being normally in position for receiving and discharging in one direction from the machine the links which have satisfied the stretch test, means controlled by said testing means when a tested link has failed to satisfy the stretch test for setting said abutment into operative position, and means then controlled by said abutment for setting said discharge means for discharge from the machine in another direction of the link which has failed to satisfy the stretch test.

2,405,099

MOUNTING FOR GUNS OR DISCHARGERS

Conrad David Schermuly, Alfred James Schermuly, and Charles Schermuly, Parkgate, Newdigate, England, assignors to The Schermuly Pistol Rocket Apparatus Limited, Parkgate, Newdigate, England, a British company

Application June 2, 1944, Serial No. 538,504
In Great Britain October 2, 1942
1 Claim. (Cl. 89—37)



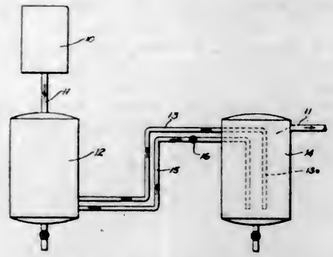
In a mounting for a discharger having discharging means comprising a barrel and a breech, a base, pivot means connecting the breech end of said barrel to said base, spring means connected to said base and breech for raising said barrel and breech about said pivot means, stop means for limiting the upward movement of said barrel and breech to the position in which said discharger is fired, a supporting strut for the discharging means pivotally connected to said base, spring means for holding said strut pressed upwardly against said discharging means and means whereby said strut and said discharging means engage to prevent downward movement of said discharging means when said discharging means is raised to firing position.

2,405,100

PULSATION ELIMINATION IN GAS LINES

Foster M. Stephens, Los Angeles, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application January 11, 1944, Serial No. 517,857
12 Claims. (Cl. 230—236)



1. In combination with a gas compressor, apparatus for dampening pulsations in a gas stream having pulsating flow created by the compressor, comprising a pair of relatively large pulsation absorbing chambers having corresponding minimum volumes as defined in the equation below and connected in series with the compressor, and a circular cross-section conduit forming an acoustical inductance passage interconnecting said chambers, the volumes of said chambers and the dimensions of said passage having predetermined

values substantially in accordance with the following equation:

$$\frac{L}{R^2} \times V = \frac{C^2}{\text{substantially } 78.674F^2}$$

wherein

L=length of said passage in inches,
R=radius of said passage in inches,
V=minimum volume of each chamber in cubic inches,
C=substantially the velocity in feet per minute of sound in the gas,
F=a selected value for the fundamental frequency per second of pulsations created in said gas stream by the compressor.

2,405,101

METHOD OF RECONDITIONING FILES

Robert S. Truesdell, Los Angeles, Calif., assignor of thirty-five one-hundredths to Fred Everett Howell, Long Beach, and twenty-five one-hundredths to Frank Walker Harrington, Los Angeles, Calif.

No Drawing. Application January 1, 1944, Serial No. 516,741
4 Claims. (Cl. 76—24)

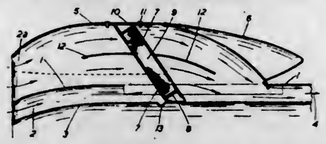
1. The method of reconditioning files consisting in first subjecting the files to the action of a solvent of aluminum, grease, oils, fats, pigments and the like, washing the files, then immersing the files in a weak solution of sulphuric acid, washing the files, subjecting the files to the action of a nitric acid solution, washing the files, again immersing the files in a sulphuric acid solution stronger than that previously employed; immersing the files in boiling water whereby an instant acceleration of the action of acid clinging to the files will occur and effect a sharpening of the file teeth, immersing the files in a neutralizing bath, washing the files, and finally coating the files with a rust protective material.

2,405,102

AIR INTAKE FILTER FOR AIRCRAFT ENGINES

Cecil Gordon Vokes, London, England

Application November 20, 1942, Serial No. 466,308
In Great Britain November 17, 1941
4 Claims. (Cl. 123—119)



1. A forwardly facing engine air intake for aircraft or the like, said intake having a bulge to provide additional air intake area, the air intake wall having an opening to cause the air passing through the bulge to enter the air intake area, and a filter panel mounted for selective removal and acting when in operative position to bridge the area within the bulge and within the air intake proper to thereby filter the air passing through both such areas.

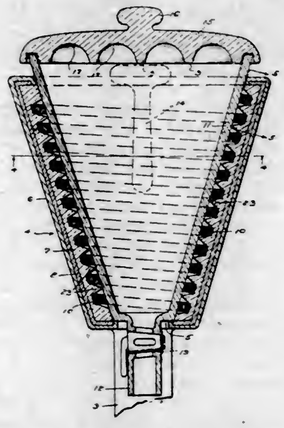
2,405,103

ELECTRIC CALDRON

Bertelle I. Winn, Yonkers, N. Y.

Application March 10, 1945, Serial No. 581,973
4 Claims. (Cl. 219—43)

1. An electric caldron of the character described comprising a substantially frusto-conical outer container including a refractory lining, an electric heating element in the lining, substantially pyramidal radiants integral with the lining, said radiants retaining the element in position and projecting inwardly therebeyond, and a substantially conical inner container removably mounted in the outer container and adapted to be heated by the element and the radiants, said inner container resting on the points of said radiants.

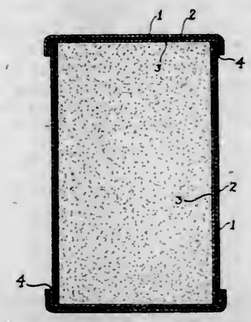


2,405,104

ORDNANCE POWDER BAG

William E. Mydans, Cambridge, Mass.

Application August 7, 1941, Serial No. 405,879
1 Claim. (Cl. 102—97)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An ordnance powder bag of the type which when filled with a propellent powder charge is adapted for insertion into a gun barrel for use as the propellant for separate loading ammunition, said bag having its walls formed of a composite sheet-like material formed of a light weight combustible fabric on each side of which is a film of nitrocellulose adhering thereto and having upon the nitrocellulose film exteriorly of the bag a coating of a combustible material which has less flammability and less tendency to accumulate static electricity than nitrocellulose, and having upon the last mentioned coating a coating comprising a material which is a conductor of electricity whereby static electric charges accumulating upon the bag may be allowed to escape from the bag.

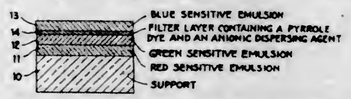
2,405,105
LEACHING APPARATUS AND METHOD
Angus B. Kennedy, Chambersburg, Pa.
Application February 24, 1942, Serial No. 432,115
9 Claims. (Cl. 23—310)



6. In leaching apparatus for extracting a soluble constituent from solid material by means of a fluid solvent, the combination of a pair of adjacent tubs adapted to contain both said fluid and said solid material, a rotatable paddle wheel associated with one of said tubs and having a plurality of blades adapted, during rotation of said paddle wheel, to advance the solid material in its associated tub toward the other of said tubs, and means associated with said paddle wheel for removing from said blades all of said material advanced thereby and for effecting deposit of said advanced material in said other tub, said removing means comprising a pivotally mounted member normally occupying a position in the path of movement of and adapted to be successively engaged by each of said blades during rotation of said paddle wheel, the engagement of said member by said blades causing said member to swing on its pivotal axis while maintaining engagement with each blade in succession to thereby remove the solid material from each blade during swinging movement thereof.

9. In the method of extracting from a material soluble constituent therein by means of a flowing liquid solvent for said constituent arranged to flow in one direction successively through a plurality of extracting units, said material including particles of such fine form that said particles tend to flow on the surface of said liquid when deposited thereon in the dry state and to be carried along by said flowing liquid, the steps which comprise introducing said material including asid fine particles to said liquid at an intermediate one of said units constituting a receiving unit, causing the relatively heavier particles of said introduced material to be immersed and agglomerated in the liquid at said receiving unit, screening said agglomerated heavier particles against passage from said receiving unit into the next succeeding unit following said receiving unit in the direction of flow of said liquid while permitting said flowing liquid to advance said fine particles to said next succeeding unit, causing said advanced fine particles to become immersed in said liquid at said next succeeding unit whereby to effect thorough wetting and agglomeration of said advanced fine particles, thereafter effecting return of said agglomerated fine particles from said next succeeding unit back to said receiving unit for immersion thereof in the liquid solvent then at said receiving unit, and finally advancing said returned, agglomerated fine particles successively through each of the remaining units in counter-current relation to the flow of said liquid and immersing said agglomerated fine particles at each succeeding one of said remaining units in the liquid instantaneously in each of said last mentioned succeeding units.

2,405,106
PHOTOGRAPHIC FILTER AND ANTIHALATION LAYERS
Jules Arthur Widmer, Oak Ridge, Tenn., and Burt H. Carroll, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 27, 1944, Serial No. 560,626
5 Claims. (Cl. 95—8)



1. A photographic element comprising a support having thereon a light-sensitive layer and a layer containing a colloidal dispersion of (1) a polymethine dye having a conjugated methine chain joining two heterocyclic nuclei, at least one of which nuclei is a pyrrole nucleus, and (2) an amount in excess of the equivalent amount of said dye of an anionic dispersing agent selected from the class consisting of water-soluble salts of alkyl naphthalene sulfonates, water-soluble salts of esters of sulfo aliphatic dicarboxylic acids, and tannic acid.

DESIGNS

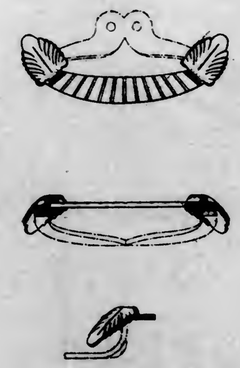
JULY 30, 1946

145,280
DESIGN FOR A HANDLE FOR TRAY OR THE LIKE
Frank Abelson, New York, N. Y.
Application January 8, 1946, Serial No. 125,344
Term of patent 3½ years
(Cl. D44—10)



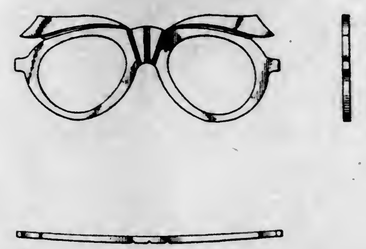
The ornamental design for a handle for tray or the like, substantially as shown.

145,281
DESIGN FOR A HANDLE FOR TRAY OR THE LIKE
Frank Abelson, New York, N. Y.
Application January 8, 1946, Serial No. 125,345
Term of patent 3½ years
(Cl. D44—10)



The ornamental design for a handle for tray or the like, substantially as shown.

145,282
DESIGN FOR A FRONTPIECE FOR EYEGLASSES
Louis L. Adolf, New York, N. Y., assignor to Comptone Company, New York, N. Y.
Application March 22, 1946, Serial No. 127,803
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a front piece for eyeglasses, substantially as shown.

145,283
DESIGN FOR A COLLAR HOLDER
Olof V. Anderson, Cowesett, R. I.
Application October 5, 1945, Serial No. 122,545
Term of patent 14 years
(Cl. D17—8)



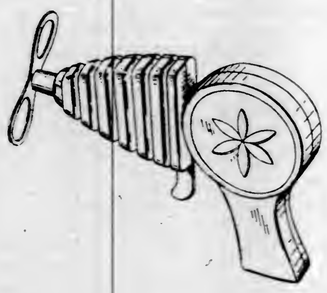
The ornamental design for a collar holder, substantially as shown.

145,284
DESIGN FOR A COLLAR HOLDER
Olof V. Anderson, Cowesett, R. I.
Application October 5, 1945, Serial No. 122,546
Term of patent 14 years
(Cl. D17—8)



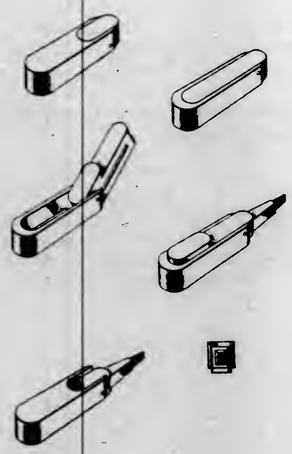
The ornamental design for a collar holder, substantially as shown.

145,285
DESIGN FOR A WHIRLIGIG TOY
John A. Brewer, Kalamazoo, Mich.
Application September 8, 1945, Serial No. 121,936
Term of patent 7 years
(Cl. D34—15)



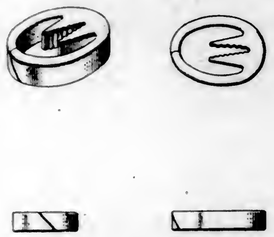
The ornamental design for a whirligig toy, as shown and described.

145,286
DESIGN FOR A LIP BRUSH
Walton B. Crane, Beverly Hills, Calif., assignor to E. Manuel Stolaroff, Los Angeles, Calif.
Application February 13, 1946, Serial No. 126,532
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a lip brush, substantially as shown.

145,287
DESIGN FOR A CLOTHESPIN
James E. Cronan, Howell, Mich.
Application March 4, 1946, Serial No. 127,092
Term of patent 14 years
(Cl. D17—6)



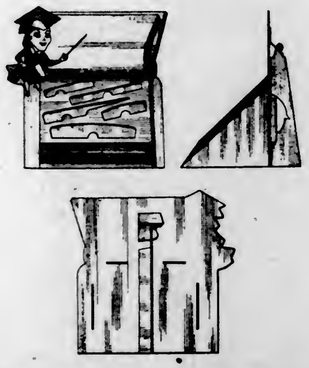
The ornamental design for a clothes pin or similar article, as shown.

145,288
DESIGN FOR SUNGLASSES
Joseph Di Cicco, San Marcos, Tex.
Application October 9, 1944, Serial No. 115,697
Term of patent 7 years
(Cl. D57—1)



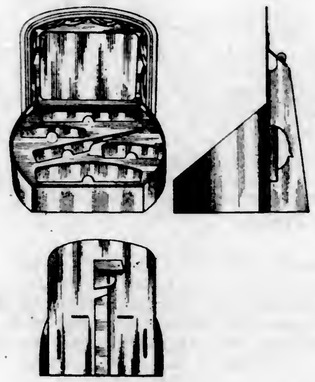
The ornamental design for sunglasses, as shown.

145,289
DESIGN FOR A DISPLAY STAND FOR COMBS AND THE LIKE
Vincent J. Dunn, New Rochelle, N. Y., assignor to Max Pressner, Brooklyn, N. Y.
Application November 23, 1945, Serial No. 124,011
Term of patent 7 years
(Cl. D80—5)



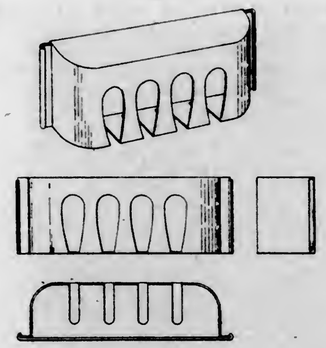
The ornamental design for a display stand for combs and the like, substantially as shown.

145,290
DESIGN FOR A DISPLAY STAND FOR COMBS AND THE LIKE
Vincent J. Dunn, New Rochelle, N. Y., assignor to Max Pressner, Brooklyn, N. Y.
Application November 23, 1945, Serial No. 124,012
Term of patent 7 years
(Cl. D80—5)



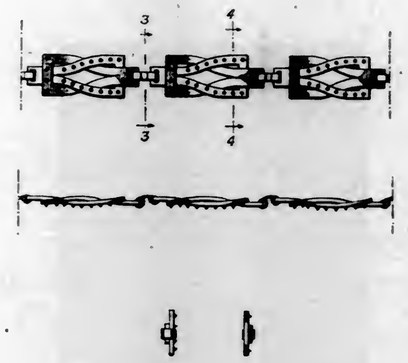
The ornamental design for a display stand for combs and the like, substantially as shown.

145,291
DESIGN FOR A TOOTHBRUSH HOLDER
George J. Evelich, Oakland, Calif.
Application August 13, 1945, Serial No. 121,405
Term of patent 3½ years
(Cl. D4—3)



The ornamental design for a tooth brush holder, as shown.

145,292
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
George E. Fournier, Pawtucket, R. I.
Application November 17, 1945, Serial No. 123,852
Term of patent 14 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, as shown.

145,293
DESIGN FOR A DRESS OR SIMILAR ARTICLE
Jean Frandsen, New York, N. Y.
Application April 1, 1946, Serial No. 128,204
Term of patent 7 years
(Cl. D3—26)



The ornamental design for a dress or similar article, substantially as shown.

145,294
DESIGN FOR AN EMBOSSED LEATHER
Leonard I. Freedman, New York, N. Y.
Application April 9, 1946, Serial No. 128,402
Term of patent 14 years
(Cl. D87—3)



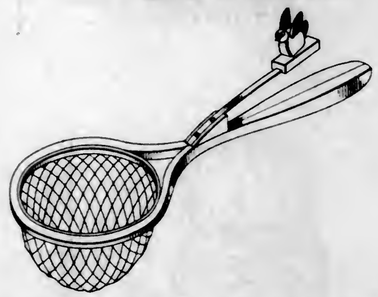
The ornamental design for an embossed leather, substantially as shown and described.

145,295
DESIGN FOR A HAMMER TOY
Edward D. Geissler, Detroit, Mich.
Application October 19, 1945, Serial No. 123,032
Term of patent 3½ years
(Cl. D34—15)



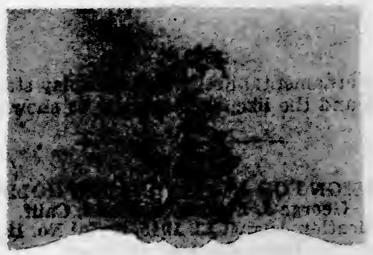
The ornamental design for a hammer toy, substantially as shown.

145,296
DESIGN FOR A NET TOY
Edward D. Geissler, Detroit, Mich.
Application October 19, 1945, Serial No. 123,034
Term of patent 3½ years
(Cl. D34—15)



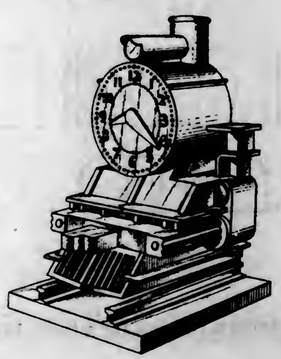
The ornamental design for a net toy, substantially as shown.

145,297
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Isabel H. Hall, New York, N. Y.
Application May 10, 1946, Serial No. 129,534
Term of patent 3½ years
(Cl. D92—26)

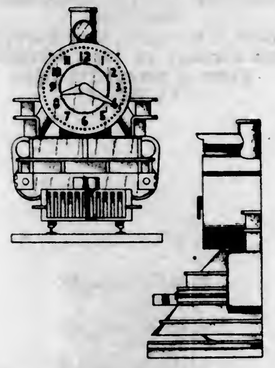


The ornamental design for a towel or similar article, substantially as shown and described.

145,298
DESIGN FOR AN ALARM CLOCK
Joseph A. Hill, Chicago, Ill., assignor to William M. Klompus, Chicago, Ill.
Application November 15, 1945, Serial No. 123,794
Term of patent 7 years
(Cl. D42—8)

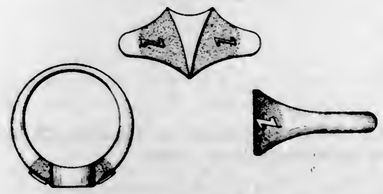


145,298—Continued



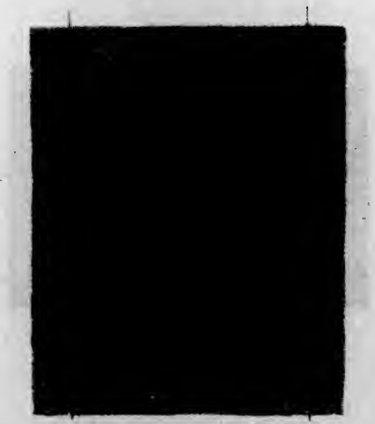
The ornamental design for an alarm clock, substantially as shown and described.

145,299
DESIGN FOR A FINGER RING
Clarence Eugene Holmes, Tallahassee, Fla.
Application June 21, 1944, Serial No. 114,111
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, as shown.

145,300
DESIGN FOR PRINTED FABRIC
Ethel S. Kales, Los Angeles, Calif.
Application February 16, 1946, Serial No. 126,614
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for printed fabric, as shown and described.

145,301
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 24, 1946, Serial No. 125,908
Term of patent 7 years
(Cl. D45—19)



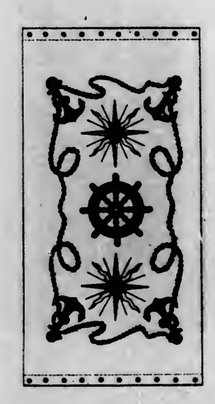
The ornamental design for a brooch or similar article, substantially as shown.

145,302
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 24, 1946, Serial No. 125,909
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

145,303
DESIGN FOR A HAMMOCK BODY OR THE LIKE
Andrew J. Kolonics, New York, N. Y.
Application January 29, 1946, Serial No. 126,055
Term of patent 3½ years
(Cl. D5—1)



The ornamental design for a hammock body or the like, substantially as shown.

145,304
DESIGN FOR A HAMMOCK BODY OR THE LIKE
Andrew J. Kolonics, New York, N. Y.
Application January 29, 1946, Serial No. 126,056
Term of patent 3½ years
(Cl. D5—1)



The ornamental design for a hammock body or the like, substantially as shown.

145,305
DESIGN FOR A HAMMOCK BODY OR THE LIKE
Andrew J. Kolonics, New York, N. Y.
Application January 29, 1946, Serial No. 126,057
Term of patent 3½ years
(Cl. D5—1)



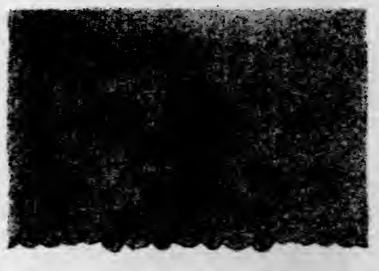
The ornamental design for a hammock body or the like, substantially as shown.

145,306
DESIGN FOR A HAMMOCK BODY OR THE LIKE
Andrew J. Kolonics, New York, N. Y.
Application January 29, 1946, Serial No. 126,058
Term of patent 3½ years
(Cl. D5—1)



The ornamental design for a hammock body or the like, substantially as shown.

145,307
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 10, 1946, Serial No. 129,529
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,308
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 10, 1946, Serial No. 129,530
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,309
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 10, 1946, Serial No. 129,531
Term of patent 3½ years
(Cl. D92—26)



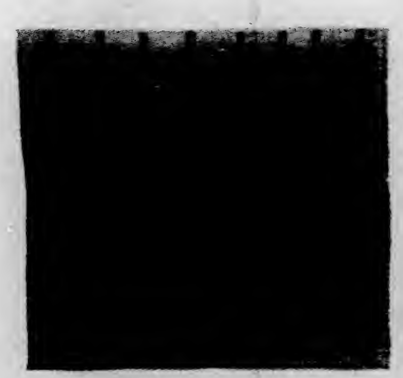
The ornamental design for a towel or similar article, substantially as shown and described.

145,310
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 10, 1946, Serial No. 129,532
Term of patent 3½ years
(Cl. D92—26)



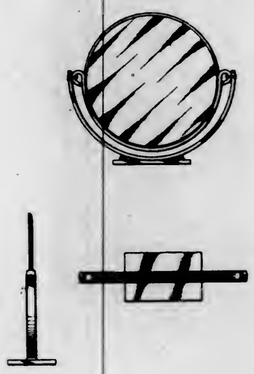
The ornamental design for a towel or similar article, substantially as shown and described.

145,311
DESIGN FOR A SCARF
Robert Tyler Lee, Los Angeles, Calif., assignor to Edgar C. Hyman Co., New York, N. Y., a firm
Application December 18, 1945, Serial No. 124,824
Term of patent 3½ years
(Cl. D3—12)



The ornamental design for a scarf, substantially as shown.

145,312
DESIGN FOR A MIRROR OR SIMILAR ARTICLE
Hyman H. Lessler, Long Beach, Calif., assignor to Harold Arnold, Jr.
Application January 28, 1945, Serial No. 117,616
Term of patent 3½ years
(Cl. D33—9)



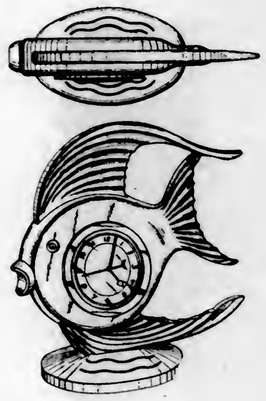
The ornamental design for a mirror or similar article, as shown.

145,313
DESIGN FOR A TELESCOPE SUPPORT
William Levin, New York, N. Y.
Application February 20, 1946, Serial No. 126,755
Term of patent 3½ years
(Cl. D57—1)



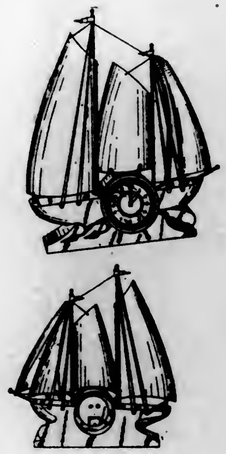
The ornamental design for a telescope support, substantially as shown and described.

145,314
DESIGN FOR A MANTEL CLOCK
Harry Levitan, Chicago, Ill.
Application November 23, 1945, Serial No. 124,006
Term of patent 7 years
(Cl. D42—7)



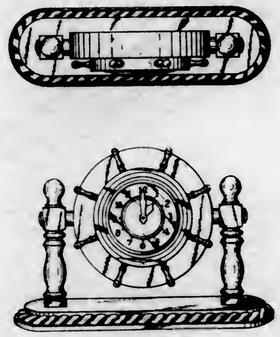
The ornamental design for a mantel clock, as shown.

145,315
DESIGN FOR A MANTEL CLOCK
Harry Levitan, Chicago, Ill.
Application January 24, 1946, Serial No. 125,936
Term of patent 7 years
(Cl. D42—7)



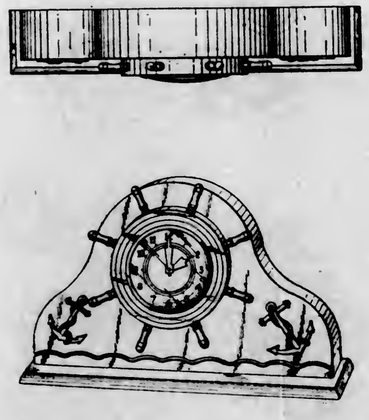
The ornamental design for a mantel clock, substantially as shown.

145,316
DESIGN FOR A DESK CLOCK
Harry Levitan, Chicago, Ill.
Application January 24, 1946, Serial No. 125,937
Term of patent 7 years
(Cl. D42—7)



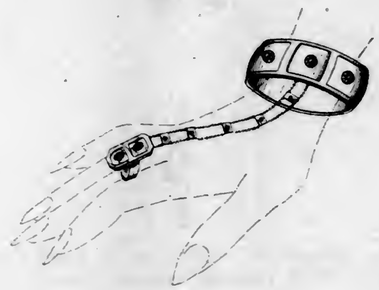
The ornamental design for a desk clock, substantially as shown.

145,317
DESIGN FOR A MANTEL CLOCK
Harry Levitan, Chicago, Ill.
Application January 24, 1946, Serial No. 125,938
Term of patent 7 years
(Cl. D42—7)



The ornamental design for a mantel clock, substantially as shown.

145,318
DESIGN FOR A COMBINED BRACELET AND RING
Taji Lowenst, New York, N. Y.
Application June 26, 1945, Serial No. 120,222
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a combined bracelet and ring, as shown and described.

145,319
DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE
Julio J. Marsella, Providence, R. I.
Application January 23, 1946, Serial No. 125,864
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a jewelry pin or similar article, substantially as shown.

145,320
DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE
Julio J. Marsella, Providence, R. I.
Application January 23, 1946, Serial No. 125,865
Term of patent 7 years
(Cl. D45—19)

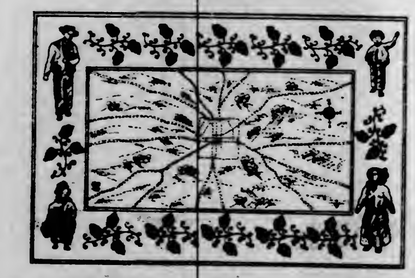


The ornamental design for a jewelry pin or similar article, substantially as shown.

145,321
DESIGN FOR AN EARRING
Julio J. Marsella, Providence, R. I.
Application January 23, 1946, Serial No. 125,866
Term of patent 7 years
(Cl. D45—9)

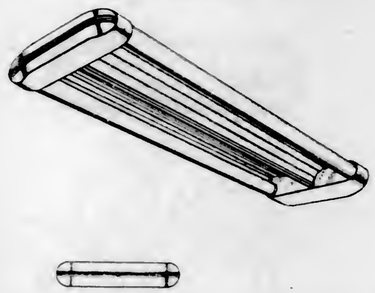
The ornamental design for an earring, substantially as shown.

145,322
DESIGN FOR A TABLE MAT OR SIMILAR ARTICLE
Henry J. Muller, Lancaster, Pa.
Application March 18, 1946, Serial No. 127,640
Term of patent 3½ years
(Cl. D92—26)



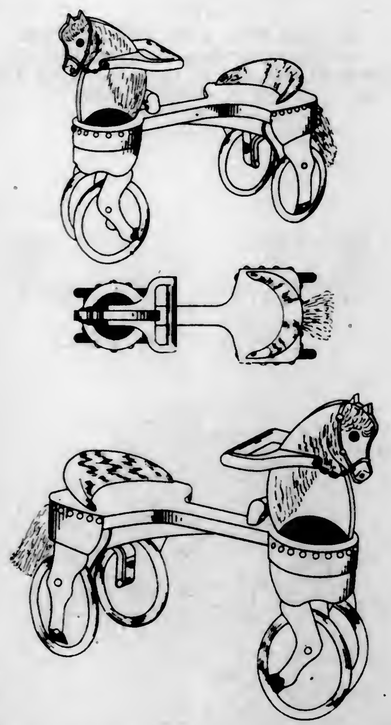
The ornamental design for a table mat or similar article, substantially as shown and described.

145,323
DESIGN FOR A FLUORESCENT LIGHTING FIXTURE
Carl Nitardy, New York, N. Y., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application June 14, 1944, Serial No. 114,002
Term of patent 14 years
(Cl. D48—23)



The ornamental design for a fluorescent lighting fixture, as shown.

145,324
DESIGN FOR A CHILD'S VEHICLE
Jack N. O'Connor and Stella M. O'Connor, Los Angeles, Calif.
Application October 3, 1945, Serial No. 122,494
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a child's vehicle, as shown.

145,325
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,880
Term of patent 7 years
(Cl. D45—19)

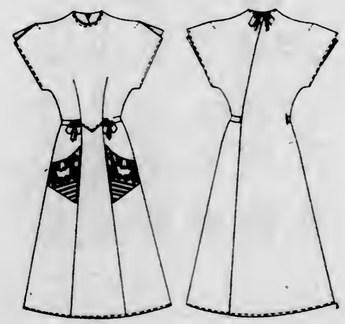


The ornamental design for a brooch or similar article, substantially as shown.

145,326
DESIGN FOR AN EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel Inc., New York, N. Y.
Application January 24, 1946, Serial No. 125,886
Term of patent 7 years
(Cl. D45—9)

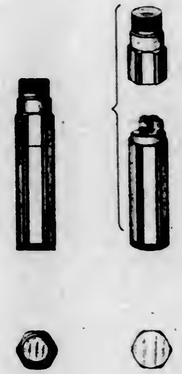
The ornamental design for an earring or similar article, substantially as shown.

145,327
DESIGN FOR AN APRON
Helene Pons, New York, N. Y.
Application February 26, 1946, Serial No. 126,930
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for an apron, substantially as shown.

145,328
DESIGN FOR A CIGARETTE LIGHTER OR SIMILAR ARTICLE
Nathan M. Robboy, Cleveland Heights, Ohio
Application October 16, 1945, Serial No. 122,892
Term of patent 7 years
(Cl. D48—27)



The ornamental design for a cigarette lighter or similar article, substantially as shown.

145,329
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,244
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,330
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,245
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,331
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,248
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,332
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,250
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,333
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,252
Term of patent 3½ years
(Cl. D3—26)



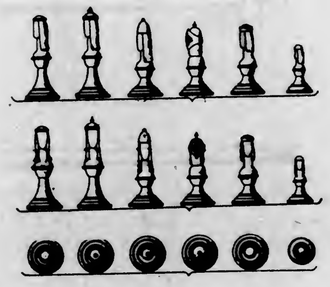
The ornamental design for a dress, substantially as shown.

145,334
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application March 8, 1946, Serial No. 127,257
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a dress, substantially as shown.

145,335
DESIGN FOR A SET OF CHESSMEN
Arthur R. Scott, Kansas City, Mo.
Application October 15, 1945, Serial No. 122,839
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a set of chessmen, as shown.

145,336
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Murray Sices, Lynbrook, N. Y.
Application March 4, 1946, Serial No. 127,073
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a jacket or similar article, substantially as shown.

145,337
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Murray Sices, Lynbrook, N. Y.
Application March 4, 1946, Serial No. 127,074
Term of patent 3½ years
(Cl. D3—4)



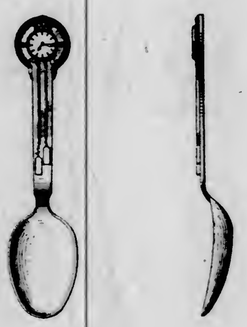
The ornamental design for a jacket or similar article, substantially as shown.

145,338
DESIGN FOR A JACKET OR SIMILAR ARTICLE
Murray Sices, Lynbrook, N. Y.
Application March 4, 1946, Serial No. 127,075
Term of patent 3½ years
(Cl. D3—4)



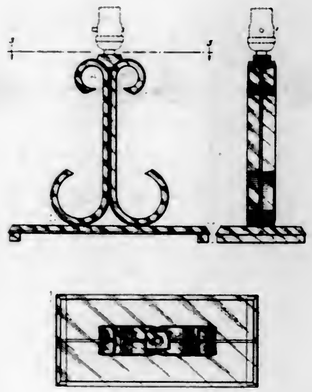
The ornamental design for a jacket or similar article, substantially as shown.

145,339
DESIGN FOR AN ANNIVERSARY SPOON
Axel Stokby, New York, N. Y., assignor to Danish Trading Co., Inc., New York, N. Y., a corporation of New York
Application April 12, 1946, Serial No. 128,519
Term of patent 14 years
(Cl. D54—12)



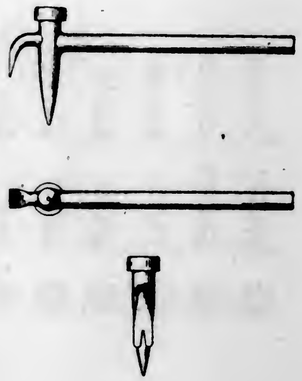
The ornamental design for an anniversary spoon, substantially as shown.

145,340
DESIGN FOR A LAMP STAND
James E. Thodos, Chicago, Ill., assignor to Bend-a-Lite Plastics Division, branch of Oxygen Equipment & Service Co., Chicago, Ill., a corporation of Illinois
Application September 7, 1945, Serial No. 121,906
Term of patent 3½ years
(Cl. D48—20)



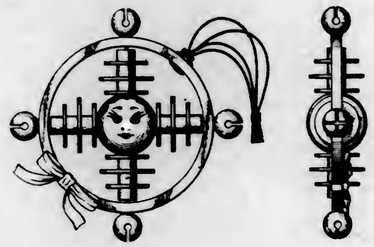
The ornamental design for a lamp stand, as shown and described.

145,341
DESIGN FOR A FENCE TOOL
John Thompson, Kansas City, Mo.
Application August 23, 1945, Serial No. 121,580
Term of patent 7 years
(Cl. D54—13)



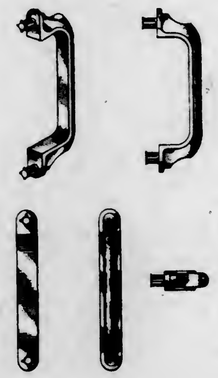
The ornamental design for a fence tool, as shown.

145,342
DESIGN FOR A BABY RATTLE
Irving Tucker, White Plains, N. Y.
Application September 17, 1945, Serial No. 122,151
Term of patent 3½ years
(Cl. D34—15)



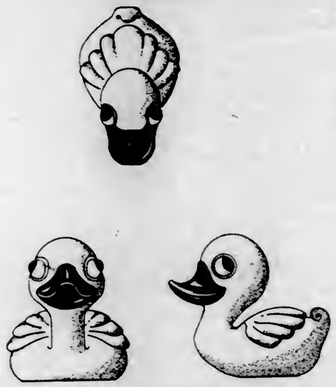
The ornamental design for a baby rattle, as shown and described.

145,343
DESIGN FOR A HANDLE
Frank C. Wallace, North Hollywood, Calif., assignor to Monogram Manufacturing Company, Los Angeles, Calif., a corporation of California
Application September 28, 1945, Serial No. 122,385
Term of patent 14 years
(Cl. D10—8)



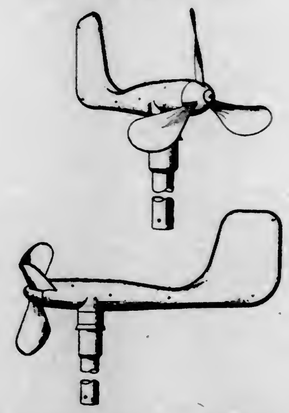
The ornamental design for a handle, substantially as shown.

145,344
DESIGN FOR A TOY FIGURE OR SIMILAR ARTICLE
Constance Ray White, Beverly Hills, Calif.
Application March 30, 1946, Serial No. 128,111
Term of patent 14 years
(Cl. D34—2)



The ornamental design for a toy figure or similar article, substantially as shown.

145,345
DESIGN FOR A WIND INDICATING APPARATUS OR SIMILAR ARTICLE
Louvan E. Wood, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 13, 1945, Serial No. 118,472
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a wind indicating apparatus or similar article, as shown.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Chemical Company, Milwaukee, Wis. Sterilizer and deodorant. 422,569; July 30; Serial No. 488,069; published Apr. 30, 1946. Class 6.

Advance Aluminum Castings: *See*—
Super Maid Cook-Ware Corporation.

Advance Aluminum Castings Corp.: *See*—
Advance Pattern & Foundry Company.

Advance Pattern & Foundry Company, to Advance Aluminum Casting Corp., Chicago, Ill. Cast-aluminum cooking utensile. 215,525; renewed July 20, 1946. O. G. July 30. Class 13.

Ahlschlager & Edwards, Chicago, Ill., to Schering Corporation, Bloomfield, N. J. Face powder. 210,793; renewed Mar. 23, 1946. O. G. July 30. Class 6.

Alabama-Georgia Syrup Company, Montgomery, Ala. Cane sirup. 216,625; renewed Aug. 17, 1946. O. G. July 30. Class 46.

Alabama-Georgia Syrup Company, Montgomery, Ala. Cane sirup. 217,072; renewed Aug. 24, 1946. O. G. July 30. Class 46.

Alexander Film Co.: *See*—
Alexander Industries, Inc.

Alexander Industries, Inc., Englewood, to Alexander Film Co., Colorado Springs, Colo. Advertising and publicity motion-picture films. 214,659; renewed June 29, 1946. O. G. July 30. Class 26.

Allen, S. L., & Co., to S. L. Allen & Co., Inc., Philadelphia, Pa. Sleds. 55,077; re-renewed Aug. 7, 1946. O. G. July 30. Class 22.

Allen, S. L., Co., Inc.: *See*—
Allen, S. L., & Co.

Allied Kid Company: *See*—
Keystone Leather Co.

American Bleached Goods Company, Inc.: *See*—
Lortex Company, The.

American Cyanamid Company: *See*—
Ultramarine Company, The.

American Cyanamid Company, New York, N. Y. Cyanides. 213,989; renewed June 8, 1946. O. G. July 30. Class 6.

American Cyanamid Company, New York, N. Y. Dusters. 215,224; renewed July 13, 1946. O. G. July 30. Class 23.

American Manufacturing Company: *See*—
American Manufacturing Company, The.

American Manufacturing Company, The, New York, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Bagging. 55,965; re-renewed Aug. 21, 1946. O. G. July 30. Class 42.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Ladies' handbags. 422,609; July 30, 1946; Serial No. 495,946; published May 7, 1946. Class 3.

Arkwright, Incorporated, New York, N. Y. Canes, umbrellas, and parasols. 422,587; July 30; Serial No. 492,124; published May 7, 1946. Class 41.

Art Electrotype Co., The: *See*—
Art Electrotype Foundry Company, The.

Art Electrotype Foundry Company, The, to The Art Electrotype Co., Cleveland, Ohio. Electrotype. 215,285; renewed July 13, 1946. O. G. July 30. Class 50.

Associated Distributors, Inc., Chicago, Ill., now by change of name Associated Products, Inc. Manicure implement sets, manicure scissors, nail files, etc. 422,551; July 30; Serial No. 482,038; published May 7, 1946. Class 44.

Associated Products, Inc.: *See*—
Associated Distributors, Inc.

Aviation Products Company, Montreal, Quebec, Canada. Knitting pins. 422,565; July 30; Serial No. 487,023; published May 7, 1946. Class 40.

Best Universal Lock Co., Seattle, Wash., to Best Universal Lock Co., Indianapolis, Ind. Locks, keys, and parts of locks. 207,165; renewed Dec. 22, 1945. O. G. July 30. Class 25.

Bike Web Company, The: *See*—
Sharp & Smith.

Blackman, Julius, Corporation, doing business as Supreme Pharmaceutical Company, New York, N. Y. Vitamin capsules and tablets. 422,537; July 30; Serial No. 467,643; published June 6, 1944. Class 6.

Boom, William B., Cleveland, Ohio. Lathes, planers, drill presses, etc. 214,560; renewed June 29, 1946. O. G. July 30. Class 23.

Boston Varnish Company, to Boston Varnish Company, Everett, Mass. Varnish, japan, driers, etc. 53,948; re-renewed June 19, 1946. O. G. July 30. Class 16.

Boston Varnish Company, Everett, Mass. Ready-mixed paint and paint enamel. 216,018; renewed Aug. 3, 1946. O. G. July 30. Class 16.

Boston Varnish Company, Everett, Mass. Paint enamels and varnishes. 216,019; renewed Aug. 3, 1946. O. G. July 30. Class 16.

Bravo Manufacturing Co.: *See*—
Bravo, Mauricio.

Bravo, Mauricio, doing business as Bravo Manufacturing Co., Chicago, Ill. Incense, perfume, toilet water, etc. 422,544; July 30; Serial No. 475,942; published Apr. 30, 1946. Class 6.

Brooks, J. B., and Company, Limited, Birmingham, England. Cycle-saddles. 50,131; re-renewed Mar. 6, 1946. O. G. July 30. Class 19.

Bunting Publications, Inc., The, Waukegan, to The Bunting Publications, Inc., North Chicago, Ill. Publication issued monthly. 211,728; renewed Apr. 20, 1946. O. G. July 30. Class 38.

Butcher, Charles F., Sheffield, England, to Durham-Enders Razor Corporation, Mystic, Conn. Razors. 28,050; re-renewed Mar. 31, 1946. O. G. July 30. Class 23.

Caldwell, Rose B., Chicago, Ill. Liquid deodorant for personal use only. 422,537; July 30; Serial No. 468,744; published Apr. 3, 1945. Class 6.

California Fruit Growers Exchange: *See*—
Exchange Orange Products Co., The.

Chandler, George, to Cora Chandler's Inc., Boston, Mass. Corsets. 55,923; re-renewed Aug. 21, 1946; O. G. July 30. Class 39.

Chandler's, Cora, Inc.: *See*—
Chandler, George.

Chase & Sanborn, Boston, Mass., to Standard Brands Incorporated, New York, N. Y. Coffee. 56,296; re-renewed Sept. 4, 1946. O. G. July 30. Class 46.

Chemical Foundation, Incorporated, The: *See*—
Merck, E., Firm of.

Coats, J. & P., (R. I.) Inc., Pawtucket, R. I. Thread. 422,581; July 30; Serial No. 491,911; published Apr. 16, 1946. Class 43.

Cohen, Samuel, doing business as S. C. Sales Company, Baltimore, Md. Salve. 422,545; July 30; Serial No. 476,140; published Apr. 30, 1946. Class 6.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Aluminum phosphate. 422,574; July 30; Serial No. 489,795; published Apr. 30, 1946. Class 6.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Blank paper, translucent paper, coated book paper, etc. 217,281; renewed Aug. 31, 1946. O. G. July 30. Class 37.

Copeland, W. T., & Sons, to W. T. Copeland & Sons, Limited, Stoke-on-Trent, Staffordshire, England. China and earthenware. 214,849; renewed July 6, 1946. O. G. July 30. Class 30.

Copeland, W. T., & Sons, Limited: *See*—
Copeland, W. T., & Sons.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 422,579; July 30; Serial No. 491,806; published Apr. 30, 1946. Class 6.

Coughlin, Dorothy N., Hollywood, Calif. Shoulder pads for garments. 422,570; July 30; Serial No. 488,513; published Apr. 16, 1946. Class 40.

Craddock-Terry Co., to Craddock-Terry Shoe Corporation, Lynchburg, Va. Leather shoes. 216,982; renewed Aug. 24, 1946. O. G. July 30. Class 39.

Craddock-Terry Shoe Corporation: *See*—
Craddock-Terry Co.

Crowe Laboratories Incorporated, Tulsa, Okla. Water phase emulsion with sulfathiazole suspended therein. 422,572; July 30; Serial No. 489,042; published Apr. 30, 1946. Class 6.

Danahy, Edward T., Co., Inc., to Danahy-Faxon Stores, Inc., Buffalo, N. Y. Hams, cali hams, bacon, etc. 205,917; renewed Nov. 17, 1945. O. G. July 30. Class 46.

Danahy-Faxon Stores, Inc.: *See*—
Danahy, Edward T., Co., Inc.

Dr. Pepper Company, Dallas, Tex. Nonalcoholic maltless beverages. 422,562; July 30; Serial No. 485,631; published Apr. 30, 1946. Class 45.

Dumari Textile Co., Inc., New York, N. Y. Bias binding, blanket binding, bias fold tape, etc. 422,559; July 30; Serial No. 485,204; published May 7, 1946. Class 40.

Durham-Enders Razor Corporation: *See*—
Butcher, Charles F.

Eggleston, Artie L., Houston, Tex. Liniment for external use. 422,575; July 30; Serial No. 489,951; published Apr. 30, 1946. Class 6.

Eight-In-One Products Company, Valdosta, Ga. Insecticide. 422,588; July 30; Serial No. 492,261; published Apr. 30, 1946. Class 6.

Exchange Orange Products Co., The, San Dimas, to California Fruit Growers Exchange, Los Angeles, Calif. Concentrated California citrous fruit juices. 216,605; renewed Aug. 17, 1946. O. G. July 30. Class 45.

Fleischman, Philip, New York, N. Y. Tetrasodium pyrophosphate powder preparations. 422,577; July 30; Serial No. 491,076; published Apr. 30, 1946. Class 6.

4 CCCC Inc., New York, N. Y. Dandruff remedy. 422,547; July 30; Serial No. 477,502; published Nov. 20, 1945. Class 6.

Foy Paint Company, The: *See*—
Johnston, R. F., Paint Company, The.

Geaslen, Richard L., doing business as Triad Products Co., to Triad Products Corporation, Chicago, Ill. Water heaters. 214,337; renewed June 22, 1946. O. G. July 30. Class 34.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. 422,593; July 30; Serial No. 493,341; published Apr. 30, 1946. Class 6.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. 422,599; July 30; Serial No. 495,026; published May 7, 1946. Class 35.

Genske, Hugh, Philadelphia, Pa. Perfume and cologne. 422,597; July 30; Serial No. 493,885; published Apr. 30, 1946. Class 6.

Givaudan-Delawanna, Inc., New York, N. Y. Chemical product useful as perfume ingredient. 422,584; July 30; Serial No. 492,039; published Apr. 30, 1946. Class 6.

Grand Union Company, The, New York, N. Y. Laundry starch and starch finish, laundry blue, and dentifrice. 422,568; July 30; Serial No. 487,940; published Apr. 30, 1946. Class 6.

Graton & Knight Company, Worcester, Mass. Adhesive belt cement. 422,598; July 30; Serial No. 494,063; published May 7, 1946. Class 5.

Great Atlantic & Pacific Tea Company, The: *See*—
Kansas Flour Mills Company, The.

Great Atlantic & Pacific Tea Company, The, Jersey City, N. J., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Prepared foods specifically farina, and canned foods, etc. 216,257; renewed Aug. 10, 1946. O. G. July 30. Class 46.

Guerlain Perfumery Corporation, Wilmington, Del., and New York, N. Y. Face powders. 422,541; July 30; Serial No. 473,377; published Mar. 26, 1946. Class 6.

Hardy, L., Company, Worcester, Mass. Shaving-blades and whitening-blades. 56,070; re-renewed Aug. 21, 1946. O. G. July 30. Class 23.

Hausman, M., & Sons, New York, N. Y. Parasols and umbrellas. 422,582; July 30; Serial No. 491,977; published Apr. 9, 1946. Class 41.

Hausman, M., & Sons, New York, N. Y. Parasols and umbrellas. 422,583; July 30; Serial No. 491,979; published Apr. 9, 1946. Class 41.

Heggie-Simplex Boiler Company, Joliet, Ill., to Lookout Boiler and Manufacturing Company, Chattanooga, Tenn. Heating boilers and garbage burners. 217,348; renewed Aug. 31, 1946. O. G. July 30. Class 34.

Hemp and Company, Incorporated, Macomb, Ill. Iceless and fireless receptacles for retaining heat or cold. 422,554; July 30; Serial No. 483,772; published May 7, 1946. Class 2.

Hersey Manufacturing Company, Boston, to Hersey Manufacturing Company, South Boston, Mass. Fluid-meters. 54,749; re-renewed June 26, 1946. O. G. July 30. Class 26.

Herz, Alexander, doing business as The Hygeia Antiseptic Tooth Pick Co., to Herz Manufacturing Corporation, New York, N. Y. Drinking straws. 196,233; renewed Mar. 10, 1945. O. G. July 30. Class 50.

Herz Manufacturing Corporation: *See*—
Herz, Alexander.

Hi-Gene Co., to Elmer H. Stickel, doing business as Hi-Gene Co., Newark, N. J. Remedy for corns and bunions, and foot-bath tablets. 210,725; renewed Mar. 23, 1946. O. G. July 30. Class 6.

Hudnut, Richard, New York, N. Y. Rouge, lipstick, perfume, etc. 422,595; July 30; Serial No. 493,599; published Apr. 30, 1946. Class 6.

Hudson, Frank E., doing business as J. R. Hudson Company, Everett, Mass. Non-eatable toy bones. 422,543; July 30; Serial No. 474,413; published May 7, 1946. Class 22.

Hudson, J. R.: *See*—
Hudson, Frank E.

Hygeia Antiseptic Tooth Pick Co., The: *See*—
Herz, Alexander.

Hy-Ko Products Co.: *See*—
Wright, Dode.

I. C. I. (Explosives) Limited, doing business as Nobel's Explosives Company, Slough, Buckinghamshire, England. Filaments, fibres, and threads. 422,560; July 30; Serial No. 485,220; published May 14, 1946. Class 43.

International Shoe Company: *See*—
Plant, Thomas G., Company.

Jackson Corset Company, Jackson, Mich., to Venus Foundation Garments, Inc., Chicago, Ill. Corsets, brassières, corset brassières, etc. 213,300; renewed May 25, 1946. O. G. July 30. Class 39.

Janssen, B. H., to Janssen Piano Company, Inc., New York, N. Y. Pianos. 56,243; re-renewed Sept. 4, 1946. O. G. July 30. Class 36.

Janssen Piano Company, Inc.: *See*—
Janssen, B. H.

Jantzen Knitting Mills, Portland, Oreg. Swimming suits, knitted sweater coats, gloves, etc. 213,637; renewed June 1, 1946. O. G. July 30. Class 39.

Johnston, R. F., Paint Company, The, Cincinnati, to The Foy Paint Company, Inc., Norwood, Cincinnati, Ohio. Ready-mixed paints and paint enamels. 216,917; renewed Aug. 24, 1946. O. G. July 30. Class 16.

Kansas Flour Mills Company, The, Wichita, Kans., to The Great Atlantic & Pacific Tea Company, New York, N. Y. Wheat flour. 210,812; renewed Mar. 23, 1946. O. G. July 30. Class 46.

Kayser, Julius, and Co., New York, N. Y. Hosiery, fabric gloves, and knitted or textile underwear. 216,812; renewed Aug. 24, 1946. O. G. July 30. Class 39.

Kelley-Koett Manufacturing Company, The, Covington, Ky. X-ray apparatus, parts, appurtenances and appliances therefor. 422,538; July 30; Serial No. 467,945; published May 7, 1946. Class 44.

Keystone Leather Co., Philadelphia, Pa., to Allied Kid Company, Boston, Mass. Patent leather. 55,688; re-renewed Aug. 21, 1946. O. G. July 30. Class 1.

Knobel, John, & Son, Freeport, Ill. Wheat flour, pancake flour, buckwheat and wheat flour, etc. 208,305; renewed Jan. 26, 1946. O. G. July 30. Class 46.

Kolite Corporation: *See*—
Kollath, Joseph.

Kollath, Joseph, to Kolite Corporation, Schenectady, N. Y. Electrical display signs. 210,456; renewed Mar. 16, 1946. O. G. July 30. Class 21.

Lanza, Horace O., San Francisco, Calif. Wines. 422,564; July 30; Serial No. 486,903; published Oct. 30, 1945. Class 47.

Leadway Foods: *See*—
Leadway Stores Corporation.

Leadway Stores Corporation, doing business as Leadway Foods, Chicago, Ill. Toothpaste. 422,594; July 30; Serial No. 493,446; published Apr. 30, 1946. Class 6.

Le Long, Lucien, Inc., Chicago, Ill. Perfume, toilet water, cologne, etc. 422,536; July 30; Serial No. 467,294; published Mar. 27, 1945. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,600; July 30; Serial No. 495,052; published May 7, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,601; July 30; Serial No. 495,056; published May 7, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery and cosmetics. 422,602; July 30; Serial No. 495,067; published Apr. 30, 1946. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,604; July 30; Serial No. 495,299; published May 7, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,605; July 30; Serial No. 495,302; published May 7, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,606; July 30; Serial No. 495,308; published May 7, 1946. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. 422,607; July 30; Serial No. 495,311; published May 7, 1946. Class 2.

Libby, McNeill & Libby, Chicago, Ill. Canned evaporated milk. 216,292; renewed Aug. 10, 1946. O. G. July 30. Class 46.

Liberty & Co. Limited: *See*—
Liberty Silk Company.

Liberty Silk Company, New York, N. Y., to Liberty & Co. Limited, London, England. Dress-silk. 52,153; re-renewed May 1, 1946. O. G. July 30. Class 42.

Lincoln Leather Goods Co. Inc., New York, N. Y. Ladies' hand bags. 422,603; July 30; Serial No. 495,175; published May 7, 1946. Class 3.

Lindfors Corporation, The, New York, N. Y. Rouge, lipstick, face powder, etc. 422,556; July 30; Serial No. 484,351; published Apr. 30, 1946. Class 6.

Lookout Boiler and Manufacturing Company: *See*—
Heggie-Simplex Boiler Company.

Lortex Company, The, to American Bleached Goods Company, Inc., New York, N. Y. Shirtings, dress goods, and drapery fabrics in the piece. 216,032; renewed Aug. 3, 1946. O. G. July 30. Class 42.

Lundell-Eckberg Manufacturing Co., Inc., Jamestown, N. Y. Casements. 217,134; renewed Aug. 24, 1946. O. G. July 30. Class 12.

Marinello Company, Chicago, Ill., to Sales Affiliates, Inc., New York, N. Y. Face powder, talcum powder, rouge and powder compacts, etc. 210,174; renewed Mar. 9, 1946. O. G. July 30. Class 6.

Masculine, L.: *See*—
Union Macaroni Company.

Merck, E., Firm of, Darmstadt, Germany, to The Chemical Foundation, Incorporated, New York, N. Y. Soporifics. 27,388; re-renewed Dec. 3, 1945. O. G. July 30, 1946. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Tablet for the treatment of heart conditions. 422,580; July 30; Serial No. 491,872; published Apr. 30, 1946. Class 6.

Metropolitan Refractories Corporation, New York, N. Y. Fire brick. 422,596; July 30; Serial No. 493,613; published May 7, 1946. Class 12.

Midland Chemical Laboratories, Inc., The, to Midland Laboratories, Dubuque, Iowa. Soap product. 214,177; renewed June 15, 1946. O. G. July 30. Class 4.

Midland Laboratories: *See*—
Midland Chemical Laboratories, Inc.

Miller, Benjamin G., doing business as Penn Pharmacal Company, New York, N. Y. Sedative of phenobarbital and pentobarbital. 422,546; July 30; Serial No. 476,779; published Apr. 30, 1946. Class 6.

Morrell, John, & Co.: *See*—
Nave-McCord Mercantile Company.

Morrell, John, & Co., Ottumwa, Iowa. Canned vegetables and butter. 216,923; renewed Aug. 24, 1946. O. G. July 30. Class 46.

Mukamal Company, New York, N. Y. Sewing threads and yarns. 422,585; July 30; Serial No. 492,080; published May 7, 1946. Class 48.

Muralo Company, Inc., The, New Brighton, to The Muralo Company, Inc., Staten Island, N. Y. Dry powder to be mixed with cold water and used as a decorative wall coating. 216,084; renewed Aug. 3, 1946. O. G. July 30. Class 16.

Muralo Company, Inc., The, New Brighton, to The Muralo Company, Inc., Staten Island, N. Y. Dry powder to be mixed with water and used as a plastic paint. 217,438; renewed Aug. 31, 1946. O. G. July 30. Class 16.

Nathanson, Joseph G., doing business as Soluol Chemical Company, East Greenwich, R. I. Preparations for water repellant finish treatment of textile fibres and fabrics both natural and synthetic. 422,534; July 30; Serial No. 459,883; published Apr. 30, 1946. Class 6.

Nave-McCord Mercantile Company, St. Joseph, Mo., to John Morrell & Co., Ottumwa, Iowa. Coffee. 56,074; re-renewed Aug. 21, 1946. O. G. July 30. Class 46.

Nobel's Explosives Company: *See*—
I. C. I. (Explosives) Limited.

"Ofome" Company, Limited, The, London, to The "Ofome" Company, Limited, Darwen, England. Soap. 207,581; renewed Jan. 5, 1946. O. G. July 30. Class 4.

Okonite Company, The: *See*—
Okonite Company, Limited, The.

Okonite Company, Limited, The, New York, N. Y., to The Okonite Company, Passaic, N. J. Rubber insulating compound. 50,139; re-renewed Mar. 6, 1946. O. G. July 30. Class 21.

Okur Co., The, San Francisco, Calif. Compound to abate itching and pain. 422,552; July 30; Serial No. 482,388; published Apr. 30, 1946. Class 6.

Parfum L'Orle, Inc., New York, N. Y. Perfumed hair dressing lotion. 422,573; July 30; Serial No. 489,756; published Apr. 30, 1946. Class 6.

Park & Tilford: *See*—
Whitex Corporation.

Pasfield, Charles J.: *See*—
Pasfield Soap Company.

Pasfield Soap Co.: *See*—
Pasfield Soap Company.

Pasfield Soap Company, Brooklyn, N. Y., to Amelia Marie Pasfield Sammis, administratrix of the estate of Charles J. Pasfield, doing business as Pasfield Soap Co., Mt. Vernon, N. Y. Medicinal soap, toilet soap, and shaving soap. 46,471; re-renewed Sept. 19, 1945. O. G. July 30. Class 4.

Penn Pharmacal Company: *See*—
Miller, Benjamin G.

Personality Beauty Products Limited, Leicestershire, England. Toilet creams, toilet powders, toilet lotions, etc. 422,542; July 30; Serial No. 474,353; published Apr. 30, 1946. Class 6.

Phillips, Chas. H., Chemical Co., The, New York, N. Y., to Sterling Drug Inc., Wilmington, Del. Liquid magnesia preparation. 55,598; re-renewed Aug. 21, 1946. O. G. July 30. Class 6.

Phillips, Chas. H., Chemical Co., The, New York, N. Y., to Sterling Drug Inc., Wilmington, Del. Quinine preparation. 55,599; re-renewed Aug. 21, 1946. O. G. July 30. Class 6.

Phillips, Chas. H., Chemical Co., The, New York, N. Y., to Sterling Drug Inc., Wilmington, Del. Cod-liver-oil. 55,600; re-renewed Aug. 21, 1946. O. G. July 30. Class 6.

Pittsburgh Plate Glass Company, Rennous-Kleinle Division, Baltimore, Md., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Artists' calcimine, counter dusters, fitch, etc. 213,688; renewed June 1, 1946. O. G. July 30. Class 29.

Plant, Thomas G., Company, Boston, Mass., to International Shoe Company, St. Louis, Mo. Boots, shoes, and slippers. 216,996; renewed Aug. 24, 1946. O. G. July 30. Class 39.

Polk Miller Products Corporation, Richmond, Va. Flea or insect powder. 217,083; renewed Aug. 24, 1946. O. G. July 30. Class 6.

Precourt, Ray A., Los Angeles, to Purex Corporation, Ltd., South Gate, Calif. General cleaning preparation. 211,650; renewed Apr. 13, 1946. O. G. July 30. Class 4.

Purex Corporation, Ltd.: *See*—
Precourt, Ray A.

Quong, Chin, San Francisco, Calif. Rheumatism medicine. 213,839; renewed June 8, 1946. O. G. July 30. Class 6.

Reid, Murdoch & Co., Chicago, Ill. Ginger ale and root beer. 422,535; July 30; Serial No. 460,539; published July 25, 1944. Class 45.

Revlon Products Corporation, New York, N. Y. Nail enamel, lipsticks, face powder, and rouge. 422,571; July 30; Serial No. 488,869; published Mar. 26, 1946. Class 6.

Ross, Sydney, Co., The, Newark, N. J. Preparations for the treatment of bowel and liver diseases. 216,645–6; renewed Aug. 17, 1946. O. G. July 30. Class 6.

Ross, Sydney, Co., The, Newark, N. J. Preparations for the treatment of bowel and liver diseases. 216,700–1; renewed Aug. 17, 1946. O. G. July 30. Class 6.

Rubinstein, Helena, Inc., New York, N. Y. Perfume, toilet water, and face powder. 422,561; July 30; Serial No. 485,422; published Apr. 30, 1946. Class 6.

Ruud Manufacturing Company, to Ruud Manufacturing Company, Pittsburgh, Pa. Instantaneous automatic gas-fired heaters. 209,202; renewed Feb. 16, 1946. O. G. July 30. Class 34.

S. C. Sales Company: *See*—
Cohen, Samuel.

Sales Affiliates, Inc.: *See*—
Marinello Company.

Sammis, Amelia M. P., administratrix: *See*—
Pasfield Soap Company.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. 422,589–90; July 30; Serial Nos. 492,586–7; published Apr. 30, 1946. Class 6.

Scaife Company: *See*—
Scaife, Wm. B., & Sons Company.

Scaife, Wm. B., & Sons Company, Pittsburgh, to Scaife Company, Oakmont, Pa. Machinery for purifying and softening water. 211,264; renewed Apr. 6, 1946. O. G. July 30. Class 23.

Scandia Toys, Los Angeles, Calif. Wooden toys. 422,557; July 30; Serial No. 484,594; published May 7, 1946. Class 22.

Schering Corporation: *See*—
Ahlschlager & Edwards.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibacterial preparation. 422,586; July 30; Serial No. 492,117; published Apr. 30, 1946. Class 6.

Sharp & Smith, to The Bike Web Company, Chicago, Ill. Jock-strap suspensories. 48,251; re-renewed Dec. 19, 1945. O. G. July 30. Class 44.

Shenandoah Milling Company, Incorporated, Shenandoah, Va., to Charles B. Stout, Memphis, Tenn. Self-rising and plain wheat flour. 214,131; renewed June 15, 1946. O. G. July 30. Class 46.

Simonsen Iron Works, to N. C. Simonsen, doing business as the Simonsen Iron Works, Sioux Rapids, Iowa. Cow hobble and tail holder. 204,103; renewed Oct. 6, 1945. O. G. July 30. Class 50.

Simonsen, N. C.: *See*—
Simonsen Iron Works.

Societe Anonyme L'Aliment Essentiel, Nanterre, France. Prepared bread. 199,918; renewed June 23, 1945. O. G. July 30. Class 46.

Socony-Vacuum Oil Company, Incorporated: *See*—
Standard Oil Co. of New York.
Vacuum Oil Company.

Soluol Chemical Company: *See*—
Nathanson, Joseph G.

Sonneborn, L., Sons, Inc., New York, N. Y. Heavy white mineral oil. 422,558; July 30; Serial No. 485,167; published Apr. 30, 1946. Class 6.

Sparta Ceramic Company, The, East Sparta, Ohio. Floor tile. 422,576; July 30; Serial No. 490,336; published May 7, 1946. Class 12.

Spiers, Robert D., doing business as Robert D. Spiers Laboratories, St. Petersburg, Fla. Insecticide and insect repellent. 422,591; July 30; Serial No. 492,745; published Apr. 30, 1946. Class 6.

Spiers, Robert D., Laboratories: *See*—
Spiers, Robert D.

Standard Brands Incorporated: *See*—
Chase & Sanborn.

Standard Oil Co. of New York, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Naphtha. 55,011; re-renewed Aug. 7, 1946. O. G. July 30. Class 15.

Stem, Joseph, Chicago, Ill. Ointment. 422,563; July 30; Serial No. 485,891; published Apr. 30, 1946. Class 6.

Sterling Drug Inc.: *See*—
Phillips, Chas. H., Chemical Co., The

Stickel, Elmer H.: *See*—
Hi-Gene Co.

Stoody Company, to Stoody Company, Whittier, Calif. Mild steel, iron, and high-carbon welding rods. 212,095; renewed Apr. 27, 1946. O. G. July 30. Class 14.

Stoody Company, to Stoody Company, Whittier, Calif. Self-hardening alloy-steel welding rods. 212,119; renewed Apr. 27, 1946. O. G. July 30. Class 14.

Stout, Charles B.: *See*—
Shenandoah Milling Company, Incorporated.

Super Maid Cook-Ware Corporation, to Advance Aluminum Castings, Chicago, Ill. Cooking utensils, including tripliate sets, teakettles, waffle molds, etc. 211,235; renewed Apr. 6, 1946. O. G. July 30. Class 13.

Supreme Pharmaceutical Company: *See*—
Blackman, Julius, Corporation.

Syracuse Ornamental Co., Syracuse, N. Y. Brush and comb sets, combs, buttons, etc. 422,553; July 30; Serial No. 483,245; published Apr. 16, 1946. Class 40.

Syracuse Ornamental Co., Syracuse, N. Y. Brush and comb sets, combs, ornamental pins, buttons, etc. 422,566; July 30; Serial No. 487,291; published Mar. 26, 1946. Class 40.

Templeton, James, & Son Limited, Ayrshire, Scotland. Yarns of wool, worsted, or hair. 422,578; July 30; Serial No. 491,686; published Apr. 9, 1946. Class 43.
Triad Products Corporation: *See*—
Gensien, Richard L.
Turnbull, Frederick M., Los Angeles, Calif. Compound of a sulfonamide and a vasoconstrictor. 422,548; July 30; Serial No. 477,956; published Apr. 30, 1946. Class 6.
Ultramarine Company, The, to American Cyanamid Company, New York, N. Y. Bluing. 53,735; re-renewed June 12, 1946. O. G. July 30. Class 6.
Union Macaroni Company, to L. Masculine, doing business as Union Macaroni Mfg. Co., Beaumont, Tex. Macaroni, cut macaroni, spaghetti, etc. 207,292; renewed Dec. 29, 1945. O. G. July 30. Class 46.
Union Macaroni Mfg. Co.: *See*—
Union Macaroni Company.
United Drug Company, Boston, Mass., to United-Rexall Drug Company, Los Angeles, Calif. Sanitary napkins. 214,651; renewed June 29, 1946. O. G. July 30. Class 44.
United-Rexall Drug Company: *See*—
United Drug Company.
United States Gutta Percha Paint Company, Providence, R. I. Ready-mixed paints. 217,172; renewed Aug. 24, 1946. O. G. July 30. Class 16.
United States Gutta Percha Paint Company, Providence, R. I. Lacquers. 217,456; renewed Aug. 31, 1946. O. G. July 30. Class 16.
Universal Corporation, Dallas, Tex. Bottle carriers. 422,550; July 30; Serial No. 481,725; published May 7, 1946. Class 2.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. 422,608; July 30; Serial No. 496,054; published May 7, 1946. Class 44.
Vacuum Oil Company, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Naphtha, gasoline, and benzene. 216,741; renewed Aug. 17, 1946. O. G. July 30. Class 15.
Vacuum Oil Company, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Oils, greases, and waxes. 217,246; renewed Aug. 31, 1946. O. G. July 30. Class 15.
Venus Brassiere Co., to Venus Foundation Garments, Inc., Chicago, Ill. Corsets, brassières, girdles, and bandeaux. 211,073; renewed Apr. 6, 1946. O. G. July 30. Class 39.
Venus Brassiere Co., to Venus Foundation Garments, Inc., Chicago, Ill. Corsets, brassières, girdles, and bandeaux. 211,092; renewed Apr. 6, 1946. O. G. July 30. Class 39.
Venus Brassiere Co., to Venus Foundation Garments, Inc., Chicago, Ill. Corsets, brassières, girdles, and bandeaux. 211,096; renewed Apr. 6, 1946. O. G. July 30. Class 39.
Venus Foundation Garments, Inc.: *See*—
Jackson Corset Company.
Venus Brassiere Co.
Wallace Laboratories, Inc., New Brunswick, N. J. Pharmaceuticals. 422,555; July 30; Serial No. 484,000; published Apr. 30, 1946. Class 6.
Weber, F. Co., Philadelphia, Pa. Palettes, palette cups, and palette knives, etc. 217,267; renewed Aug. 31, 1946. O. G. July 30. Class 23.
Wetherill, Geo. D., & Co., Inc., Philadelphia, Pa. Liquid paint. 51,888; re-renewed Apr. 24, 1946. O. G. July 30. Class 16.
Wheeling Machine Products Co., Wheeling, W. Va. Pipe couplings and nipples. 216,918; renewed Aug. 24, 1946. O. G. July 30. Class 13.
Whitex Corporation, to Park & Tilford, New York, N. Y. Bluing. 217,231; renewed Aug. 31, 1946. O. G. July 30. Class 6.
Williams Manufacturing Co., Cleveland, Ohio. Catarrh snuff. 217,024; renewed Aug. 24, 1946. O. G. July 30. Class 6.
Wilson Chemical Company, The: *See*—
Wilson, George C.
Wilson, George C., doing business as The Wilson Chemical Company, to The Wilson Chemical Company, Tyrone, Pa. Toilet preparations. 216,967; renewed Aug. 24, 1946. O. G. July 30. Class 6.
Windsor, Lester D., Salisbury, Md. Medical preparations. 215,832; renewed July 27, 1946. O. G. July 30. Class 6.
Wolfenden, R., & Sons, Attleboro, Mass. Thread and yarn. 422,549; July 30; Serial No. 478,731; published May 7, 1946. Class 43.
Wolsey, Karl V., Malden, Mass. Compartment luggage. 422,567; July 30; Serial No. 487,401; published May 7, 1946. Class 3.
Wright, Dode, doing business as Hy-Ko Products Co., Kansas City, Mo. Preparation in liquid form for the relief of discomforts due to colds and grippe. 422,540; July 30; Serial No. 472,658; published Apr. 30, 1946. Class 6.
Wyeth Incorporated, assignee: *See*—
Wyeth-Stille, S. A.
Wyeth-Stille, S. A., Mexico City, Mexico, assignor to Wyeth Incorporated, Philadelphia, Pa. Penicillin. 422,592; July 30; Serial No. 493,002; published Apr. 30, 1946. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather, Patent. Keystone Leather Co. 55,688; re-renewed Aug. 21, 1946. O. G. July 30.

CLASS 2

Carriers, Bottle. Universal Corporation. 422,550; July 30; Serial No. 481,725; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,600; July 30; Serial No. 495,052; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,601; July 30; Serial No. 495,056; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,604; July 30; Serial No. 495,299; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,605; July 30; Serial No. 495,302; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,606; July 30; Serial No. 495,308; published May 7, 1946.
Cases, compacts, and lipstick holders, Vanity. Les Parfums de Dana, Inc. 422,607; July 30; Serial No. 495,311; published May 7, 1946.
Receptacles for retaining heat or cold, Iceless and fireless. Hemp and Company, Incorporated. 422,554; July 30; Serial No. 483,772; published May 7, 1946.

CLASS 3

Handbags, Ladies'. Elizabeth Arden Sales Corporation. 422,609; July 30; Serial No. 495,946; published May 7, 1946.
Handbags, Ladies'. Lincoln Leather Goods Co., Inc. 422,603; July 30; Serial No. 495,175; published May 7, 1946.
Luggage, Compartment. K. V. Wolsey. 422,567; July 30; Serial No. 487,401; published May 7, 1946.

CLASS 4

Cleaning preparation, General. R. A. Precourt. 211,650; renewed Apr. 13, 1946. O. G. July 30.
Soap. "Ofome" Company, Limited. 207,581; renewed Jan. 5, 1946. O. G. July 30.
Soap product. Midland Chemical Laboratories, Inc. 214,177; renewed June 15, 1946. O. G. July 30.
Soap, toilet soap, and shaving-soap, Medicinal. Pasfield Soap Company. 46,471; re-renewed Sept. 19, 1945. O. G. July 30.

CLASS 5

Cement, Adhesive belt. Graton & Knight Company. 422,598; July 30; Serial No. 494,063; published May 7, 1946.

CLASS 6

Antibacterial preparation. Sharp & Dohme, Incorporated. 422,586; July 30; Serial No. 492,117; published Apr. 30, 1946.
Bluing. Ultramarine Company. 53,735; re-renewed June 12, 1946. O. G. July 30.
Bluing. Whitex Corporation. 217,231; renewed Aug. 31, 1946. O. G. July 30.
Capsules and tablets, Vitamin. Julius Blackman Corporation. 422,537; July 30; Serial No. 467,643; published June 6, 1944.
Chemical product useful as perfume ingredient. Givaudan-Delawanna, Inc. 422,584; July 30; Serial No. 492,039; published Apr. 30, 1946.
Cod-liver-oil. Chas. H. Phillips Chemical Co. 55,660; re-renewed Aug. 21, 1946. O. G. July 30.
Compound of a sulfonamide and a vasoconstrictor. F. M. Turnbull. 422,548; July 30; Serial No. 477,956; published Apr. 30, 1946.
Compound to abate itching and pain. Okur Co. 422,552; July 30; Serial No. 482,388; published Apr. 30, 1946.
Creams, toilet powders, toilet lotions, etc., Toilet. Personality Beauty Products Limited. 422,542; July 30; Serial No. 474,353; published Apr. 30, 1946.
Cyanides. American Cyanamid Company. 213,989; renewed June 8, 1946. O. G. July 30.
Deodorant for personal use only, Liquid. R. B. Caldwell. 422,537; July 30; Serial No. 468,744; published Apr. 3, 1945.
Dyestuffs. General Dyestuff Corporation. 422,593; July 30; Serial No. 493,341; published Apr. 30, 1946.
Emulsion with sulfathiazole suspended therein, Water phase. Crowe Laboratories Incorporated. 422,572; July 30; Serial No. 489,042; published Apr. 30, 1946.
Enamel, lipsticks, face powder, and rouge, Nail. Revlon Products Corporation. 422,571; July 30; Serial No. 488,869; published Mar. 26, 1946.
Incense, perfume, toilet water, etc. M. Bravo. 422,544; July 30; Serial No. 475,942; published Apr. 30, 1946.

Insecticide. Eight-In-One Products Company. 422,588; July 30; Serial No. 492,261; published Apr. 30, 1946.
Insecticide and insect repellent. R. D. Spiers. 422,591; July 30; Serial No. 492,745; published Apr. 30, 1946.
Liniment for external use. A. L. Eggleston. 422,575; July 30; Serial No. 489,951; published Apr. 30, 1946.
Lotion, Perfumed hair dressing. Parfum L'Orle, Inc. 422,573; July 30; Serial No. 489,756; published Apr. 30, 1946.
Magnesia preparation, Liquid. Chas. H. Phillips Chemical Co. 55,598; re-renewed Aug. 21, 1946. O. G. July 30.
Medical preparations. L. D. Windsor. 215,832; renewed July 27, 1946. O. G. July 30.
Medicinal preparation. Sandoz Chemical Works, Inc. 422,589–90; July 30; Serial Nos. 492,586–7; published Apr. 30, 1946.
Medicine, Rheumatism. C. Quong. 213,839; renewed June 8, 1946. O. G. July 30.
Oil, Heavy white mineral. L. Sonneborn Sons, Inc. 422,558; July 30; Serial No. 485,167; published Apr. 30, 1946.
Ointment. J. Stem. 422,563; July 30; Serial No. 485,891; published Apr. 30, 1946.
Penicillin. Wyeth-Stille, S. A. 422,592; July 30; Serial No. 493,092; published Apr. 30, 1946.
Perfume and cologne. H. Genske. 422,597; July 30; Serial No. 493,885; published Apr. 30, 1946.
Perfume, toilet water, and face powder. Helena Rubinstein, Inc. 422,561; July 30; Serial No. 485,422; published Apr. 30, 1946.
Perfume, toilet water, cologne, etc. Lucien Le Long, Inc. 422,536; July 30; Serial No. 467,294; published Mar. 27, 1945.
Pharmaceuticals. Wallace Laboratories, Inc. 422,555; July 30; Serial No. 484,000; published Apr. 30, 1946.
Phosphate, Aluminum. Colgate-Palmolive-Peet Company. 422,574; July 30; Serial No. 489,795; published Apr. 30, 1946.
Powder, dusting powder, toilet water, etc., Face. Coty, Inc. 422,579; July 30; Serial No. 491,806; published Apr. 30, 1946.
Powder, Face. Ahlschlager & Edwards. 210,793; renewed Mar. 23, 1946. O. G. July 30.
Powder, Flea or insect. Polk Miller Products Corporation. 217,083; renewed Aug. 24, 1946. O. G. July 30.
Powder, talcum powder, rouge and powder compacts, etc., Face. Marinello Company. 210,174; renewed Mar. 9, 1946. O. G. July 30.
Powders, Face. Guerlain Perfumery Corporation. 422,541; July 30; Serial No. 473,377; published Mar. 26, 1946.
Preparation for water repellant finish treatment of textile fibres and fabrics both natural and synthetic. J. G. Nathanson. 422,534; July 30; Serial No. 459,883; published Apr. 30, 1946.
Preparation in liquid form for the relief of discomforts due to colds and grippe. D. Wright. 422,540; July 30; Serial No. 472,658; published Apr. 30, 1946.
Preparations for the treatment of bowel and liver diseases. Sydney Ross Co. 216,645–6; renewed Aug. 17, 1946. O. G. July 30.
Preparations for the treatment of bowel and liver diseases. Sydney Ross Co. 216,700–1; renewed Aug. 17, 1946. O. G. July 30.
Quinine preparation. Chas. H. Phillips Chemical Co. 55,599; re-renewed Aug. 21, 1946. O. G. July 30.
Remedy, Dandruff. 4 CCCC Inc. 422,547; July 30; Serial No. 477,502; published Nov. 20, 1945.
Remedy for corns and bunions, and foot-bath tablets. Hi-Gene Co. 210,725; renewed Mar. 23, 1946. O. G. July 30.
Rouge, lipstick, face powder, etc. Lindfors Corporation. 422,556; July 30; Serial No. 484,351; published Apr. 30, 1946.
Rouge, lipstick, perfume, etc. R. Hudnut. 422,595; July 30; Serial No. 493,599; published Apr. 30, 1946.
Salve. S. Cohen. 422,545; July 30; Serial No. 476,140; published Apr. 30, 1946.
Sedative of phenobarbital and pentobarbital. B. G. Miller. 422,546; July 30; Serial No. 476,779; published Apr. 30, 1946.
Snuff, Catarrh. Williams Manufacturing Co. 217,024; renewed Aug. 24, 1946. O. G. July 30.
Soporifics. Firm of E. Merck. 27,388; re-renewed Dec. 3, 1945. O. G. July 30.
Starch and starch finish, laundry blue, and dentifrice, Laundry. Grand Union Company. 422,568; July 30; Serial No. 487,940; published Apr. 30, 1946.
Sterilizer and deodorant. Acme Chemical Company. 422,569; July 30; Serial No. 488,069; published Apr. 30, 1946.
Tablet for the treatment of heart conditions. Wm. S. Merrell Company. 422,580; July 30; Serial No. 491,872; published Apr. 30, 1946.
Tetrasodium pyrophosphate powder preparations. P. Fleischman. 422,577; July 30; Serial No. 491,076; published Apr. 30, 1946.
Toilet preparations. G. C. Wilson. 216,967; renewed Aug. 24, 1946. O. G. July 30.
Toilet preparations, perfumery, and cosmetics. Les Parfums de Danna, Inc. 422,602; July 30; Serial No. 495,067; published Apr. 30, 1946.
Toothpaste. Leadway Stores Corporation. 422,594; July 30; Serial No. 493,446; published Apr. 30, 1946.

CLASS 12

Casements. Lundell-Eckberg Manufacturing Co. Inc. 217,134; renewed Aug. 24, 1946. O. G. July 30.
Brick, Fire. Metropolitan Refractories Corporation. 422,596; July 30; Serial No. 493,613; published May 7, 1946.
Tile, Floor. Sparta Ceramic Company. 422,576; July 30; Serial No. 490,336; published May 7, 1946.

CLASS 13

Couplings and nipples, Pipe. Wheeling Machine Products Co. 216,918; renewed Aug. 24, 1946. O. G. July 30.
Utensils, Cast-aluminum cooking. Advance Pattern & Foundry Company. 215,525; renewed July 20, 1946. O. G. July 30.
Utensils, including triplicate sets, teakettles, waffle molds, etc., Cooking. Super Maid Cook-Ware Corporation. 211,235; renewed Apr. 6, 1946. O. G. July 30.

CLASS 14

Welding rods, Mild steel, iron, and high-carbon. Stoody Company. 212,095; renewed Apr. 27, 1946. O. G. July 30.
Welding rods, Self-hardening alloy-steel. Stoody Company. 212,119; renewed Apr. 27, 1946. O. G. July 30.

CLASS 15

Naphtha. Standard Oil Co. of New York. 55,011; re-renewed Aug. 7, 1946. O. G. July 30.
Naphtha, gasoline, and benzene. Vacuum Oil Company. 216,741; renewed Aug. 17, 1946. O. G. July 30.
Oils, greases, and waxes. Vacuum Oil Company. 217,246; renewed Aug. 31, 1946. O. G. July 30.

CLASS 16

Lacquers. United States Gutta Percha Paint Company. 217,456; renewed Aug. 31, 1946. O. G. July 30.
Paint and paint enamel, Ready-mixed. Boston Varnish Company. 216,018; renewed Aug. 3, 1946. O. G. July 30.
Paint enamels and varnishes. Boston Varnish Company. 216,019; renewed Aug. 3, 1946. O. G. July 30.
Paint, Liquid. Geo. D. Wetherill & Co., Inc. 51,888; re-renewed Apr. 24, 1946. O. G. July 30.
Paints and paint enamels, Ready-mixed. R. F. Johnston Paint Company. 216,917; renewed Aug. 24, 1946. O. G. July 30.
Paints, Ready-mixed. United States Gutta Percha Paint Company. 217,172; renewed Aug. 24, 1946. O. G. July 30.
Powder to be mixed with cold water and used as a decorative wall coating, Dry. Muralo Company, Inc. 216,084; renewed Aug. 3, 1946. O. G. July 30.
Powder to be mixed with water and used as a plastic paint, Dry. Muralo Company, Inc. 217,438; renewed Aug. 31, 1946. O. G. July 30.
Varnish, japan, driers, etc. Boston Varnish Company. 53,948; re-renewed June 19, 1946. O. G. July 30.

CLASS 19

Cycle-saddles. J. B. Brooks and Company Limited. 50,131; re-renewed Mar. 6, 1946. O. G. July 30.

CLASS 21

Electrical display signs. Joseph Kollath. 210,456; renewed Mar. 16, 1946. O. G. July 30.
Rubber insulating compound. Okonite Company, Limited. 50,139; re-renewed Mar. 6, 1946. O. G. July 30.

CLASS 22

Sleds. S. L. Allen & Co. 55,077; re-renewed Aug. 7, 1946. O. G. July 30.
Toy bones, Non-eatable. F. E. Hudson. 422,543; July 30; Serial No. 474,413; published May 7, 1946.
Toys, Wooden. Scandia Toys. 422,557; July 30; Serial No. 484,594; published May 7, 1946.

CLASS 23

Dusters. American Cyanamid Company. 215,224; renewed July 13, 1946. O. G. July 30.
Lathes, planers, drill presses, etc. W. B. Boom. 214,560; renewed June 29, 1946. O. G. July 30.
Machinery for purifying and softening water. Wm. B. Scaife & Sons Company. 211,264; renewed Apr. 6, 1946. O. G. July 30.
Palettes, palette cups, and palette knives, etc. F. Weber Co. 217,267; renewed Aug. 31, 1946. O. G. July 30.
Razors. C. F. Butcher. 28,050; re-renewed Mar. 31, 1946. O. G. July 30.
Shaving-blades and whitening-blades. L. Hardy Company. 56,070; re-renewed Aug. 21, 1946. O. G. July 30.

CLASS 25

Locks, keys, and parts of locks. Best Universal Lock Co. 207,165; renewed Dec. 22, 1945. O. G. July 30.

CLASS 26

Films, Advertising and publicity motion-picture. Alexander Industries, Inc. 214,659; renewed June 29, 1946. O. G. July 30.
Fluid-meters. Hersey Manufacturing Company. 54,749; re-renewed June 26, 1946. O. G. July 30.

CLASS 29

Calcimine, counter dusters, fitch, etc., Artists'. Pittsburgh Plate Glass Company. 213,638; renewed June 1, 1946. O. G. July 30.

CLASS 30

China and earthenware. W. T. Copeland & Sons. 214,849; renewed July 6, 1946. O. G. July 30.

CLASS 34

Boilers and garbage burners, Heating. Heggie-Simplex Boiler Company. 217,348; renewed Aug. 31, 1946. O. G. July 30.
Heaters, Instantaneous automatic gas-fired. Ruud Manufacturing Company. 209,202; renewed Feb. 16, 1946. O. G. July 30.
Heaters, Water. R. L. Geaslen. 214,337; renewed June 22, 1946. O. G. July 30.

CLASS 35

Tires, Pneumatic. General Tire & Rubber Company. 422,599; July 30; Serial No. 495,026; published May 7, 1946.

CLASS 36

Pianos. B. H. Janssen. 56,243; re-renewed Sept. 4, 1946. O. G. July 30.

CLASS 37

Paper, translucent paper, coated book paper, etc., Blank. A. M. Collins Manufacturing Company. 217,281; renewed Aug. 31, 1946. O. G. July 30.

CLASS 38

Publication issued monthly. Bunting Publications, Inc. 211,728; renewed Apr. 20, 1946. O. G. July 30.

CLASS 39

Boots, shoes, and slippers. Thomas G. Plant Company. 216,996; renewed Aug. 24, 1946. O. G. July 30.
Corsets. G. Chandler. 55,923; re-renewed Aug. 21, 1946. O. G. July 30.
Corsets, brassières, corset brassières, etc. Jackson Corset Company. 213,300; renewed May 25, 1946. O. G. July 30.
Corsets, brassières, girdles, and bandeaux. Venus Brassiere Co. 211,073; renewed Apr. 6, 1946. O. G. July 30.
Corsets, brassières, girdles, and bandeaux. Venus Brassiere Co. 211,092; renewed Apr. 6, 1946. O. G. July 30.
Corsets, brassières, girdles, and bandeaux. Venus Brassiere Co. 211,096; renewed Apr. 6, 1946. O. G. July 30.
Hosiery, fabric gloves, and knitted or textile underwear. Julius Kayser and Co. 216,812; renewed Aug. 24, 1946. O. G. July 30.
Shoes, Leather. Craddock-Terry Co. 216,982; renewed Aug. 24, 1946. O. G. July 30.
Suits, knitted sweater coats, gloves, etc., Swimming. Jantzen Knitting Mills. 213,637; renewed June 1, 1946. O. G. July 30.

CLASS 40

Binding, blanket binding, bias fold tape, etc., Bias. Dumari Textile Co., Inc. 422,559; July 30; Serial No. 485,204; published May 7, 1946.
Brush and comb sets, combs, buttons, etc. Syracuse Ornamental Co. 422,553; July 30; Serial No. 483,245; published Apr. 16, 1946.
Brush and comb sets, combs, ornamental pins, buttons, etc. Syracuse Ornamental Co. 422,566; July 30; Serial No. 487,291; published Mar. 26, 1946.
Pads for garments, Shoulder. D. N. Coughlin. 422,570; July 30; Serial No. 488,513; published Apr. 16, 1946.
Pins, Knitting. Aviation Products Company. 422,565; July 30; Serial No. 487,023; published May 7, 1946.

CLASS 41

Canes, umbrellas, and parasols. Arkwright, Incorporated. 422,587; July 30; Serial No. 492,124; published May 7, 1946.
Parasols and umbrellas. M. Hausman & Sons. 422,582; July 30; Serial No. 491,977; published Apr. 9, 1946.
Parasols and umbrellas. M. Hausman & Sons. 422,583; July 30; Serial No. 491,979; published Apr. 9, 1946.

CLASS 42

Bagging. American Manufacturing Company. 55,965; re-renewed Aug. 21, 1946. O. G. July 30.
Dress-silk. Liberty Silk Company. 52,153; re-renewed May 1, 1946. O. G. July 30.
Shirtings, dress goods, and drapery fabrics in the piece. Lortex Company. 216,032; renewed Aug. 3, 1946. O. G. July 30.

CLASS 43

Filaments, fibres, and threads. I. C. I. (Explosives) Limited. 422,560; July 30; Serial No. 485,220; published May 14, 1946.
Thread. J. & P. Coats (R. I.) Inc. 422,581; July 30; Serial No. 491,911; published Apr. 16, 1946.
Thread and yarn. R. Wolfenden & Sons. 422,549; July 30; Serial No. 478,731; published May 7, 1946.
Threads and yarns, Sewing. Mukamal Company. 422,585; July 30; Serial No. 492,080; published May 7, 1946.
Yarns of wool, worsted or hair. James Templeton & Son Limited. 422,578; July 30; Serial No. 491,686; published Apr. 9, 1946.

CLASS 44

Implement sets, manicure scissors, nail files, etc., Manicure. Associated Distributors, Inc. 422,551; July 30; Serial No. 482,038; published May 7, 1946.
Sanitary napkins. United Drug Company. 214,651; renewed June 29, 1946. O. G. July 30.
Suspensories, Jock-strap. Smith & Smith. 48,251; renewed Dec. 19, 1945. O. G. July 30.
Teeth, Artificial. Universal Dental Company. 422,608; July 30; Serial No. 496,054; published May 7, 1946.
X-ray apparatus, parts, appurtenances and appliances therefor. Kelley-Koett Manufacturing Company. 422,538; July 30; Serial No. 467,945; published May 7, 1946.

CLASS 45

Beverages, Nonalcoholic maltless. Dr. Pepper Company. 422,562; July 30; Serial No. 485,631; published Apr. 30, 1946.
Ginger ale and root beer. Reid, Murdoch & Co. 422,535; July 30; Serial No. 460,539; published July 25, 1944.
Juices, Concentrated California citrous fruit. Exchange Orange Products Co. 216,605; renewed Aug. 17, 1946. O. G. July 30.

CLASS 46

Bread, Prepared. Societe Anonyme L'Aliment Essentiel. 199,918; renewed June 23, 1945. O. G. July 30.
Canned evaporated milk. Libby, McNeill & Libby. 216,292; renewed Aug. 10, 1946. O. G. July 30.
Canned vegetables and butter. John Morrell & Co. 216,923; renewed Aug. 24, 1946. O. G. July 30.
Coffee. Chase & Sanborn. 56,296; re-renewed Sept. 4, 1946. O. G. July 30.
Coffee. Nave-McCord Mercantile Company. 56,074; renewed Aug. 21, 1946. O. G. July 30.
Flour, Self-rising and plain wheat. Shenandoah Milling Company, Incorporated. 214,131; renewed June 15, 1946. O. G. July 30.
Foods specifically farina, and canned foods, etc., Prepared. Great Atlantic & Pacific Tea Company. 216,257; renewed Aug. 10, 1946. O. G. July 30.
Hams, call hams, bacon, etc. Edward T. Dansby Co., Inc. 205,917; renewed Nov. 17, 1945. O. G. July 30.
Macaroni, cut macaroni, spaghetti, etc. Union Macaroni Company. 207,292; renewed Dec. 29, 1945. O. G. July 30.
Sirup, Cane. Alabama-Georgia Syrup Company. 216,625; renewed Aug. 17, 1946. O. G. July 30.
Sirup, Cane. Alabama-Georgia Syrup Company. 217,072; renewed Aug. 24, 1946. O. G. July 30.
Wheat flour. Kansas Flour Mills Coupany. 210,812; renewed Mar. 23, 1946. O. G. July 30.
Wheat flour, pancake flour, buckwheat and wheat flour, etc. John Knobel & Son. 208,305; renewed Jan. 26, 1946. O. G. July 30.

CLASS 47

Wines. H. O. Lanza. 422,564; July 30; Serial No. 486,903; published Oct. 30, 1945.

CLASS 50

Electrotype. Art Electrotype Foundry Company. 215,285; renewed July 13, 1946. O. G. July 30.
Hobble and tail holder, Cow. Simonsen Iron Works. 204,103; renewed Oct. 6, 1945. O. G. July 30.
Straws, Drinking. A. Herz. 196,233; renewed Mar. 10, 1946. O. G. July 30.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Armour and Company, assignee: *See*—
Potts, Ralph H.
Crise, George W., Columbus, Ohio. Rotary heat motor. Re. 22,774; July 30.

Potts, Ralph H., La Grange, assignor to Armour and Company, Chicago, Ill. Treating fatty acid-containing stock. Re. 22,775; July 30.

LIST OF DESIGN PATENTEES

Abelson, Frank, New York, N. Y. Handle for tray or the like. 145,280; July 30.
Abelson, Frank, New York, N. Y. Handle for tray or the like. 145,281; July 30.
Adolf, Louis L., assignor to Comptone Company, New York, N. Y. Front piece for eyeglasses. 145,282; July 30.
Anderson, Olof V., Cowesett, R. I. Collar holder. 145,283; July 30.
Anderson, Olof V., Cowesett, R. I. Collar holder. 145,284; July 30.
Arnold, Harold, Jr., assignee: *See*—
Lessler, Hyman H.
Bend-a-Lite Plastics Division, branch of Oxygen Equipmens & Service Co., assignee: *See*—
Thodos, James E.
Bendix Aviation Corporation, assignee: *See*—
Wood, Louvan E.
Brewer, John A., Kalamazoo, Mich. Whirligig toy. 145,285; July 30.
Comptone Company, assignee: *See*—
Adolf, Louis L.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Crane, Walton B., Beverly Hills, assignor to E. M. Stolaroff, Los Angeles, Calif. Lip brush. 145,286; July 30.
Cronan, James E., Howell, Mich. Clothespin. 145,287; July 30.
Danish Trading Co., Inc., assignee: *See*—
Stokby, Axel.
Di Cicco, Joseph, San Marcos, Tex. Sunglasses. 145,288; July 30.
Dunn, Vincent J., New Rochelle, assignor to M. Pressner, Brooklyn, N. Y. Display stand for combs and the like. 145,289; July 30.
Dunn, Vincent J., New Rochelle, assignor to M. Pressner, Brooklyn, N. Y. Display stand for combs and the like. 145,290; July 30.
Evelich, George J., Oakland, Calif. Toothbrush holder. 145,291; July 30.
Fournier, George E., Pawtucket, R. I. Link chain for a bracelet or similar article. 145,292; July 30.
Frandsen, Jean, New York, N. Y. Dress or similar article. 145,293; July 30.
Freedman, Leonard I., New York, N. Y. Embossed leather. 145,294; July 30.
Geissler, Edward D., Detroit, Mich. Hammer toy. 145,295; July 30.
Geissler, Edward D., Detroit, Mich. Net toy. 145,296; July 30.
Hall, Isabel H., New York, N. Y. Towel or similar article. 145,297; July 30.
Hill, Joseph A., assignor to W. M. Klompus, Chicago, Ill. Alarm clock. 145,298; July 30.
Holmes, Clarence E., Tallahassee, Fla. Finger ring. 145,299; July 30.
Hyman, Edgar C., Co., assignee: *See*—
Lee, Robert T.
Kales, Ethel S., Los Angeles, Calif. Printed fabric. 145,300; July 30.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,301; July 30.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 145,302; July 30.
Klompus, William M., assignee: *See*—
Hill, Joseph A.
Kolonics, Andrew J., New York, N. Y. Hammock body or the like. 145,303; July 30.
Kolonics, Andrew J., New York, N. Y. Hammock body or the like. 145,304; July 30.
Kolonics, Andrew J., New York, N. Y. Hammock body or the like. 145,305; July 30.
Kolonics, Andrew J., New York, N. Y. Hammock body or the like. 145,306; July 30.
Lange, Albert, New York, N. Y. Towel or similar article. 145,307; July 30.
Lange, Albert, New York, N. Y. Towel or similar article. 145,308; July 30.
Lange, Albert, New York, N. Y. Towel or similar article. 145,309; July 30.
Lange, Albert, New York, N. Y. Towel or similar article. 145,310; July 30.
Lee, Robert T., Los Angeles, Calif., assignor to Edgar C. Hyman Co., New York, N. Y. Scarf. 145,311; July 30.
Lessler, Hyman H., assignor to H. Arnold, Jr., Long Beach, Calif. Mirror or similar article. 145,312; July 30.
Levin, William, New York, N. Y. Telescope support. 145,313; July 30.
Levitan, Harry, Chicago, Ill. Mantel clock. 145,314; July 30.
Levitan, Harry, Chicago, Ill. Mantel clock. 145,315; July 30.
Levitan, Harry, Chicago, Ill. Desk clock. 145,316; July 30.
Levitan, Harry, Chicago, Ill. Mantel clock. 145,317; July 30.
Lowenst, Taji, New York, N. Y. Combined bracelet and ring. 145,318; July 30.
Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 145,319; July 30.
Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 145,320; July 30.
Marsella, Julio J., Providence, R. I. Earring. 145,321; July 30.
Monogram Manufacturing Company, assignee: *See*—
Wallace, Frank C.
Muller, Henry J., Lancaster, Pa. Table mat or similar article. 145,322; July 30.
Nitardy, Carl, New York, N. Y., assignor to Sylvania Electric Products, Inc., Salem, Mass. Fluorescent lighting fixture. 145,323; July 30.
O'Connor, Jack N. and S. M., Los Angeles, Calif. Child's vehicle. 145,324; July 30.
O'Connor, Stella M.: *See*—
O'Connor, Jack N. and S. M.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel Inc., New York, N. Y. Brooch or similar article. 145,325; July 30.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 145,326; July 30.
Pons, Helene, New York, N. Y. Apron. 145,327; July 30.
Pressner, Max, assignee: *See*—
Dunn, Vincent J.
Robboy, Nathan M., Cleveland Heights, Ohio. Cigarette lighter or similar article. 145,328; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,329; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,330; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,331; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,332; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,333; July 30.
Rost, Katheryn, New York, N. Y. Dress. 145,334; July 30.
Scott, Arthur R., Kansas City, Mo. Set of chessmen. 145,335; July 30.
Sices, Murray, Lynbrook, N. Y. Jacket or similar article. 145,336; July 30.
Sices, Murray, Lynbrook, N. Y. Jacket or similar article. 145,337; July 30.

Slices, Murray, Lynbrook, N. Y. Jacket or similar article. 145,338; July 30.
Stokby, Axel, assignor to Danish Trading Co., Inc., New York, N. Y. Anniversary spoon. 145,339; July 30.
Stolaroff, E. Manuel, assignee: *See*—
Crane, Walton B.
Sylvania Electric Products Inc., assignee: *See*—
Nitardy, Carl.
Thodos, James E., assignor to Bend-a-Lite Plastics Division, branch of Oxygen Equipment & Service Co., Chicago, Ill. Lamp stand. 145,340; July 30.
Thompson, John, Kansas City, Mo. Fence tool. 145,341; July 30.
Trifari, Krussman & Fishel Inc., assignee: *See*—
Philippe, Alfred.
Tucker, Irving, White Plains, N. Y. Baby rattle. 145,342; July 30.
Wallace, Frank C., North Hollywood, assignor to Monogram Manufacturing Company, Los Angeles, Calif. Handle. 145,343; July 30.
White, Constance R., Beverly Hills, Calif. Toy figure or similar article. 145,344; July 30.
Wood, Louvan E., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Wind indicating apparatus or similar article. 145,345; July 30.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acme Air Appliance Co., Inc., assignee: *See*—
Schmid, Paul, and Hylton.
Adams, Leon M.: *See*—
Gerhart, Howard L., and Adams.
Adney, Adrian P., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich. Fluid actuated clutch. 2,404,822; July 30.
Aelony, David, Dayton, Ohio, assignor to Monsanto Chemical Company. Polishing wax compositions. 2,404,896; July 30.
Aero Zipp Fasteners Limited, assignee: *See*—
Meitner, Bela.
Agriculture, United States of America, as represented by Claude R. Wickard, Secretary of, and his successors in office, assignee: *See*—
Reeves, Richard E., and Giddens.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Goldthwait, Charles F.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Leyer, Albert.
Thommen, Hans, and Brühlmann.
Albiani, Lido, Cicero, Ill. Chamfering machine. 2,405,004; July 30.
Allison, Donald K., Beverly Hills, Calif. Apparatus for producing ozone. 2,404,778; July 30.
Aluminum Company of America, assignee: *See*—
Underwood, James E.
American Cyanamid Company, assignee: *See*—
Amick, Chester A.
Scott, Milton J.
Tchorni, David L., and Watson.
American Dyewood Company, assignee: *See*—
Pieper, Oliver T.
American-Marsh Pumps, Inc., assignee: *See*—
Adney, Adrian P.
American Optical Company, assignee: *See*—
Bennett, Alva H., and Tillyer.
Jackson, George W.
Richards, Oscar W.
Amick, Chester A., assignor to American Cyanamid Company, Bound Brook, N. J. Direct dye planographic printing compositions. 2,404,709; July 30.
Anderson, George R., assignor to J. M. Hopwood, Mount Lebanon, Pa. System of control for pulverizer mills. 2,404,937; July 30.
Anderson, William C., Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Double-throw switch. 2,405,005; July 30.
Armacost, Wilbur H., Scarsdale, and D. M. Schoenfeld, assignors to Combustion Engineering Company, Inc., New York, N. Y. Gas turbine plant. 2,404,938; July 30.
Armstrong Siddeley Motors Limited, assignee: *See*—
Wills, Henry P.
Arnold, Harold W., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymerization of asymmetrical dihalogenated ethylenes. 2,404,779; July 30.
Arnold, Harold W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Conjoint polymerization of vinyl chloride with fumaric esters. 2,404,780; July 30.
Arnold, Harold W., Wilmington, Del., M. M. Brubaker, Boothwyn, Pa., and G. L. Dorough, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vinyl polymers. 2,404,781; July 30.
Ashton, Benjamin N., assignor to Electrol Incorporated, Kingston, N. Y. Automatic cutoff pump. 2,405,006; July 30.
Automatic Electric Laboratories, Inc., assignee: *See*—
Horlacher, Albert F.
Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation process. 2,404,897; July 30.
Aycock, Walter F., El Centro, Calif. Trailer structure. 2,404,898; July 30.
Babcock & Wilcox Company, The, assignee: *See*—
Cassidy, Perry R.
Bailey, William F., Port Washington, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Television signal-translating system. 2,404,939; July 30.
Bany, Herman, Lansdowne, and A. W. Bateman, Yeadon, Pa., assignors to General Electric Company. Control system. 2,405,007; July 30.
Basbour Welding Company, assignee: *See*—
Vizard, William C.
Bassett, Robert S., Buffalo, N. Y. Accuracy regulating fluid meters. 2,404,823; July 30.
Bates, C. J., & Son, assignee: *See*—
Marshall, Gertrude R.
Bateman, Amos W.: *See*—
Bany, Herman, and Bateman.
Beal, James F., Renfrew, Ontario, Canada, assignor to The Bryant Electric Company, Bridgeport, Conn. Circuit controller. 2,404,940; July 30.
Beckelman, Abraham, New York, N. Y. Apparatus for forming an ornamental trimming. 2,404,941; July 30.
Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Steering device. 2,404,942; July 30.
Beers, John R., Briar Cliff Manor, assignor to North American Philips Company, Inc., Dobbs Ferry, N. Y. Cathode ray tube assembly. 2,404,899; July 30.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bostwick, Lee G.
Bostwick, Lee G., and King.
Harry, William R., and Romanow.
Laico, Joseph P., and Ronci.
Bennett, Alva H., Kenmore, N. Y., and E. D. Tillyer, assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical scanning device and making articles therewith. 2,404,770; July 30.
Berggren, George E., Baltimore, E. Bertalan, Glen Arm, and A. Logan, Dundalk, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,404,782; July 30.
Berns, Mel.: *See*—
Satz, Frank, and Berns.
Berry, Kenneth L., Heckescin, and J. W. Hill, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of oriented halogen-containing polymers. 2,405,008; July 30.
Bertalan, Edward: *See*—
Berggren, George E., Bertalan, and Logan.
Beshgetoor, Ray V., Merchantville, N. J., assignor to Radio Corporation of America. Viewing device. 2,404,943; July 30.
Beveridge, James M., Bronxville, N. Y., and C. J. Cowan, East Orange, N. J., assignors to Mavco, Inc. Cigarette case. 2,405,009; July 30.
Bevil Company, assignee: *See*—
Bevillard, Arthur J.
Bevillard, Arthur J., Anaheim, assignor to Bevil Company, San Francisco, Calif. Making abrasive wheels. 2,405,686; July 30.
Bichsel, Harry J.: *See*—
Mahoney, John R., and Bichsel.
Blake, Edward S., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Monothiazyl dithiocarbonates and preparing same. 2,404,771; July 30.
Blom, Carl J., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Submersible motor. 2,404,788; July 30.
Boninchi, J., & Ses Fils, assignee: *See*—
Boninchi, Joseph A.
Boninchi, Joseph A., assignor to J. Boninchi & Ses Fils, Geneva, Switzerland. Tight winding device for timepieces. 2,405,087; July 30.
Booe, James M., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrolytic condenser and electrode therefor. 2,404,824; July 30.
Bostwick, Lee G., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 2,404,784; July 30.
Bostwick, Lee G., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Moisture control in an electromechanical device. 2,404,786; July 30.
Bostwick, Lee G., and J. H. King, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical device. 2,404,785; July 30.
Bousky, Samuel, Shaker Heights, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Two-phase motor. 2,405,012; July 30.
Brassert, H. A., & Company, assignee: *See*—
Brassert, Herman A.
Brassert, Herman A., Washington, Conn., assignor to H. A. Brassert & Company, New York, N. Y. Apparatus for reduction of oxides. 2,404,944; July 30.
Bristol Company, assignee: *See*—
Pattee, John R.

Brodie, George H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone transmitter. 2,404,772; July 30.

Brown Instrument Company, The, assignee: *See*—
Schmitt, Henry M.
Vollrath, Joseph P.
Wills, Walter P.

Brown, Luther E., Gregrton, and O. W. Williams, Mount Enterprise, Tex. Well tester. 2,404,825; July 30.

Brown, Robert H., Westview, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for communication systems. 2,404,773; July 30.

Brubaker, Merlin M.: *See*—
Arnold, Harold W., Dorough, and Brubaker.

Brühlmann, Gottfried: *See*—
Thommen, Hans, and Brühlmann.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Hydroxy-di-(dihydronordicyclopentadiene). 2,404,787; July 30.

Bryant Electric Company, The, assignee: *See*—
Beal, James F.

Buckley, Charles W.: *See*—
Tear, James D., and Buckley.

Bucknam, Worthy C., Mechanic Falls, Maine, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Valve. 2,405,010; July 30.

Budd, Edward G., Manufacturing Company, assignee: *See*—
Ulrich, Theodore.

Buechner, Guenther, Scotia, N. Y., assignor to General Electric Company. Vitreous compositions. 2,405,011; July 30.

Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Polymerizing olefins. 2,404,788; July 30.

Burk, Robert E., Cleveland Heights, and E. Kropp, assignors to The Standard Oil Company, Cleveland, Ohio. Apparatus for fractional distillation. 2,404,789; July 30.

Burnam, John C., assignee: *See*—
Lee, Floyd J.

Byron Jackson Co., assignee: *See*—
Blom, Carl J.

California Research Corporation, assignee: *See*—
Claussen, William H., and Powell.

Campbell, Charles T., assignee: *See*—
Campbell, James A.

Campbell, James A., assignor of one-half to C. T. Campbell, Adrian, Mich. Chair. 2,405,013; July 30.

Canadian Radium & Uranium Corporation, assignee: *See*—
Feuer, Irving, and Goldstein.

Caparone, Michael J., Pasadena, assignor to Grayson Heat Control, Ltd., Lynwood, Calif. Snap action mechanism. 2,405,014; July 30.

Carlin, Herbert J., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical relay. 2,404,945; July 30.

Carlson, Bert G., Gates Mills, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Hydraulic speed control governor. 2,404,900; July 30.

Carlson, Bert G., Erieside, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Automatic bank control. 2,405,015; July 30.

Carroll, Burt H.: *See*—
Widmer, Jules A., and Carroll.

Cassidy, Perry R., Darien, Conn., assignor to The Babcock & Wilcox Company, Jersey City, N. J. Heat transfer apparatus and manufacture. 2,404,826; July 30.

Celanese Corporation of America, assignee: *See*—
Hall, John L., and Santolla.

Chase Brass & Copper Co., Incorporated, assignee: *See*—
Cibs, Anthony F.

Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Valve gear. 2,404,827; July 30.

Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Valve mechanism. 2,404,828; July 30.

Cibs, Anthony F., Cleveland Heights, Ohio, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Tube-severing mechanism. 2,404,901; July 30.

Cities Service Oil Company, assignee: *See*—
Sullivan, Alan P.

Clauson, Bernard A., Duluth, Minn. Safety nut. 2,405,088; July 30.

Claussen, William H., and T. M. Powell, Berkeley assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Hydrocarbon conversion. 2,404,902; July 30.

Clem, Everett W., Shrewsbury, assignor to Rice Barton Corporation, Worcester, Mass. Papermaking machine press section. 2,404,945; July 30.

Coffman, Donald D., and F. C. McGrew, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vinyl polymers. 2,404,791; July 30.

Cohen, Theodore A., assignor to Wheelco Instruments Company, Chicago, Ill. Automatic burner control apparatus. 2,404,903; July 30.

Collins, Howard W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Bonding glass fabrics to inorganic solids. 2,404,904; July 30.

Colt's Patent Fire Arms Manufacturing Company, assignee: *See*—
McClure, Laurence H., Jr.

Combustion Engineering Company, Inc., assignee: *See*—
Armacost, Wilbur H., and Schoenfeld.

Commercial Shearing & Stamping Company, The, assignee: *See*—
White, Thomas L.

Connors, James S.: *See*—
Latchum, John W., Jr., and Connors.

Cook, William H., Toledo, Ohio. Piston and cylinder device. 2,405,016; July 30.

Cordon, Ralph P., New York, N. Y. Toy top. 2,404,947; July 30.

Cowan, Clifton J.: *See*—
Beveridge, James M., and Cowan.

Craig, Palmer H., Gainesville, Fla., assignor, by mesne assignments, to Invex Inc. Gaseous discharge device. 2,405,089; July 30.

Criner, Harry E.: *See*—
Kilgore, Lee A., and Criner.

Croco, Charles P., Mount Lebanon, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control of electrolytic processes. 2,404,948; July 30.

Crooke, Raymond E., Little Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Damping mechanism. 2,405,017; July 30.

Crouse, George B., East Setauket, and F. A. Holt, Shoreham, assignors, by mesne assignments, to Photo-Positive Corporation, New York, N. Y. Manufacture of templates. 2,405,090; July 30.

Crowley, Charles, Astoria, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Automatic gripper. 2,405,018; July 30.

Culbreth, Alexander M., Valdosta, Ga. Cooling apparatus for bottled beverages. 2,405,091; July 30.

Curtiss-Wright Corporation, assignee: *See*—
Enos, Louis H.

Cutler-Hammer, Inc., assignee: *See*—
Posselt, Edward J.

Dalin, David, Sodertalje, Sweden. Method of and apparatus for utilizing waste heat. 2,404,792; July 30.

Dalin, George A., assignor to Plax Corporation, Hartford, Conn. Making organo-silicon compounds containing a C-Si bond. 2,405,019; July 30.

D'Ardenne, Walter H.: *See*—
Green, Samuel G., D'Ardenne, Meinel, and De Vore.

Darrow, Clarence E., Miami, Fla. Helicopter. 2,404,829; July 30.

Davis, Milton: *See*—
Tonks, Lewi, and Davis.

Decca Record Company, Limited, the, assignee: *See*—
O'Brien, William J.

De Hart, Edward S.: *See*—
Errig, William F., and De Hart.

De Lisle, Harold L., deceased, Sheboygan, Wis., by W. H. Murphy executor, Chicago, Ill. Adjustable drafting stand. 2,404,949; July 30.

Dempster, George R., Knoxville, Tenn. Automatic hook. 2,404,830; July 30.

Dersch, Fritz, Binghamton, and N. Heimbach, Johnson City, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic developing process. 2,404,774; July 30.

Detroit Lubricator Company, assignee: *See*—
Landon, Walter S.

De Vore, Weber: *See*—
Green, Samuel G., D'Ardenne, Meinel, and De Vore.

Dickerman, Hubert E., Springfield, Mass. Tool. 2,404,793; July 30.

Dickinson, Robert C., Wilkinsburg, W. H. Stuellein, East McKeesport, and F. E. Florschutz, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,404,950; July 30.

Dierking, Theodore, New York, N. Y. Curtain traverse wheel. 2,405,020; July 30.

Dietrich, Karl L., Jr.: *See*—
Hess, F. O., Miller, and Dietrich.

Dolan, Harry: *See*—
Rosenstein, Aaron, and Dolan.

Donaldson, Robert R., Forest Hills, assignor to J. M. Hopwood, Mount Lebanon, Pa. System for the remote control of internal-combustion engines and clutches employed in ship propulsion. 2,404,951; July 30.

Dorough, George L.: *See*—
Arnold, Harold W., Brubaker, and Dorough.

Dow Chemical Company, The, assignee: *See*—
Hirschkind, Wilhelm.
Robinson, Harold A., Friedrich, and Spencer.

Dudley, Hawley A., assignee: *See*—
Knowles, Frank W., and Dudley.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Arnold, Harold W.
Arnold, Harold W., Brubaker, and Dorough.
Berry, Kenneth L., and Hill.
Coffman, Donald D., and McGrew.
Jennings, Alfred J.
Strain, Daniel E.

Durant, Albert A., Honolulu, Hawaii. Insulated pipe. 2,405,021; July 30.

Durrett, James J., Watertown, N. Y., assignor to The New York Air Brake Company. Adjusting device for control valves. 2,404,831; July 30.

Eastman Kodak Company, assignee: *See*—
Widmer, Jules A., and Carroll.

Eaton Manufacturing Company, assignee: *See*—
Shaw, Clarence W.

Ehmann, Leslie G., assignor to Electric Steel Foundry Company, Portland, Oreg. Hammer for impact crushers. 2,404,775; July 30.

Ehrlich, William, Fox River, Wis. Cover holding band for pies and the like. 2,404,776; July 30.

Electric Steel Foundry Company, assignee: *See*—
Ehmann, Leslie G.

Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N.

Enos, Louis H., Montclair, N. J., assignor to Curtiss-Wright Corporation. Propeller blade. 2,405,022; July 30.

Errig, William F., and E. S. De Hart, assignors to Peco Manufacturing Corporation, Philadelphia, Pa. Fuse. 2,405,023; July 30.

Espley, Dennis C., North Wembley, assignor to The General Electric Company Limited, London, England. Switch for high-frequency electrical oscillations. 2,404,832; July 30.

Eynon, Thomas M., Philadelphia, Pa. Exercising device. 2,405,024; July 30.

Faben, Charles R., Toledo, Ohio. Aircraft landing runway. 2,405,092; July 30.

Fageol, William B., assignor to Twin Coach Company, Kent, Ohio. Vehicle suspension. 2,404,794; July 30.

Feingold, Lipa, New York, N. Y. Earring clasp. 2,405,025; July 30.

Ferro Stamping & Manufacturing Company, assignee: *See*—
Joachim, Joseph G.

Feuer, Irving, and L. Goldstein, assignors to Canadian Radium & Uranium Corporation, New York, N. Y. Alpha-ray emission device and making the same. 2,405,026; July 30.

Feuerlein, George R., assignor to Roethel Engineering Corporation, Detroit, Mich. Door latch. 2,405,027; July 30.

Fiechter, John J., Willow Grove, Pa. Making packing. 2,404,952; July 30.

Florschutz, Fritz E.: *See*—
Dickinson, Robert C., Stuellein, and Florschutz.

Fluor Corporation, Ltd., The, assignee: *See*—
Stephens, Foster M.

Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Fire control apparatus. 2,405,028; July 30.

Ford Instrument Company, Inc., assignee: *See*—
Crooke, Raymond E.
Ford, Hannibal C.
Newell, William H.
Poitras, Edward J., and Tear.
Poitras, Edward J., Tear, and Newell.
Ross, Elliott P.
Tear, James D.
Tear, James D., and Buckley.
Tear, James D., and Ross.

Forster, Henry, Broadview, Ill. Two-cycle internal-combustion engine. 2,404,833; July 30.

Fossa, Joseph, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe upper lacing machine. 2,404,834; July 30.

Francis, Victor J., Aylesbury, and E. H. Nelson, Harrow Weald, England, assignors to General Electric Company. Electric discharge lamp. 2,404,953; July 30.

Freund, Robert R., Phillips, Tex., assignor to Phillips Petroleum Company. Crosshead. 2,404,835; July 30.

Friedrich, Ralph E.: *See*—
Robinson, Harold A., Friedrich, and Spencer.

Friehauf, Alexander, assignee: *See*—
Schutten, Joseph J.

Gaines, Walter S., Chagrin Falls, Ohio, assignor, by mesne assignments, to Republic Industries, Inc., New York, N. Y. Container and closure therefor. 2,404,777; July 30.

Gallanty, Irving B., New York, and R. M. Larsen, Rockville Centre, N. Y. Tongue cleaning device. 2,405,029; July 30.

Garretson, Harry D., Whitestone, assignor to North American Philips Company, Inc., Dobbs Ferry, N. Y. Electrical circuit arrangement. 2,404,905; July 30.

Garretson, Owen L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Float control valve. 2,404,795; July 30.

General Electric Company, assignee: *See*—
Bany, Herman, and Bateman.
Buechner, Guenther.
Francis, Victor J., and Nelson.
Hsu, Eugene T.
Magdsick, Henry H.
Mathes, Kenneth N., and Wasiewicz.
Nickerson, Winfield T.
Pfuntner, Richard A., and Wilson.
Stone, Joseph E.
Tonks, Lewi.
Tonks, Lewi, and Davis.
Troell, Roy E.
Warrington, Albert R. van C.

General Electric Company Limited, The, assignee: *See*—
Espley, Dennis C.

General Motors Corporation, assignee: *See*—
McCormack, Alex A.
Sisson, Kenneth O.

Gerhart, Howard L., and L. M. Adams, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Modified alkyd type resins. 2,404,836; July 30.

Giddens, Joel E.: *See*—
Reeves, Richard E., and Giddens.

Glickman, Benjamin, New York, N. Y. Shoulder pad. 2,405,030; July 30.

Godsey, Frank W., Jr., Winkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Aircraft power plant. 2,404,954; July 30.

Goldsborough, Shirley L., Basking Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Long-line fault detector and relaying system. 2,404,955; July 30.

Goldstein, Ladislas: *See*—
Feuer, Irving, and Goldstein.

Goldthwait, Charles F., New Orleans, La., assignor to the United States of America, as represented by the Secretary of Agriculture. Making cotton fabrics with differential elastic properties. 2,404,837; July 30.

Goodman, Mac, New York, N. Y. Producing luminescent zinc sulphide. 2,405,031; July 30.

Goodrich, B. F., Company, The, assignee: *See*—
Hollerith, Charles.

Gouge, Arthur, assignor to Short Brothers (Rochester & Bedford) Limited, Rochester, England. Wing lift modification. 2,404,956; July 30.

Government of the United States of America, assignee: *See*—
Ringie, Donald F.

Granger, Paul H., Los Angeles, Calif. Oil well tool. 2,404,876; July 30.

Grant, Harry C., Jr., New York, N. Y., and W. A. V. Thomsen, Glen Ridge, assignors to Specialties Development Corporation, Bloomfield, N. J. Fluid pressure control device. 2,404,796; July 30.

Graybill, Howard W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,404,957; July 30.

Grayson Heat Control, Ltd., assignee: *See*—
Caparone, Michael J.

Green, Samuel G., Alexandria, Va., and W. H. D'Ardenne, Jenkintown Manor, W. J. Meinel, Huntingdon Valley, and W. De Vore, Horsham Township, Montgomery County, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Control mechanism. 2,404,958; July 30.

Greenberg, Herman, New York, N. Y. Foldable garment hanger. 2,404,959; July 30.

Griffin, Roger L., Marblehead, and N. Y. Moore, Danvers, assignors to A. C. Lawrence Leather Company, Peabody, Mass. Fur combing and ironing machine. 2,405,032; July 30.

Grimes, William F., assignor to The National Cash Register Company, Dayton, Ohio. Hot riveter. 2,405,033; July 30.

Hall, John L., Narrows, and A. M. Santolla, Pearisburg, Va., assignors to Celanese Corporation of America. Winding machine control. 2,404,838; July 30.

Hammond, John H., Jr., Gloucester, Mass., assignor to Radio Corporation of America. Secrecy communication system. 2,404,839; July 30.

Hansen, William W., Garden City, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Concentric line measuring device. 2,404,797; July 30.

Hanson, Harold F.: *See*—
Jones, Maurice F., and Hanson.

Hanson, Harold F., Wilkinsburg, and J. W. Morrow, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Power-plant assembly and control. 2,404,960; July 30.

Harford, Dwight L., Los Angeles, assignor to A. P. Johnson, Downey, Calif. Battery. 2,405,034; July 30.

Harford, Dwight L., assignor to A. P. Johnson, Downey, Calif. Electrical switch. 2,405,035; July 30.

Harrington, Frank W., assignee: *See*—
Truesdell, Robert S.

Harry, William R., New York, N. Y., and F. F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical device. 2,404,798; July 30.

Harry, William R., New York, N. Y., and F. F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signal device. 2,404,799; July 30.

Harvel Research Corporation, assignee: *See*—
Harvey, Mortimer T.

Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Resins made with lignin and heat reactive condensation products and preparing the same. 2,404,840; July 30.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Hazeltine Research, Inc., assignee: *See*—
Bailey, William F.

Heald, Raymond E., Plainfield, Ind. Double-acting engine. 2,404,906; July 30.

Heimbach, Newton: *See*—
Dersch, Fritz, and Heimbach.

Heintz Manufacturing Company, assignee: *See*—
Green, Samuel G., D'Ardenne, Meinel, and De Vore.

Hess, Frederic O., Germantown, P. Miller, Glenside, and K. L. Dietrich, Jr., Philadelphia, Pa., assignors to Scintilla Corporation of America. Ignition device. 2,404,841; July 30.

Heynau, David H., Yellow Springs, Ohio. Driving mechanism. 2,404,907; July 30.

Hill, Julian Werner: *See*—
Berry, Kenneth L., and Hill.

Hirschkind, Wilhelm, Berkeley, Calif., assignor to The Dow Chemical Company, Midland, Mich. Production of alkyl bromides. 2,404,800; July 30.

Hitson, Robert H.: *See*—
Owens, James B., and Hitson.

Hoch, Grover C., Dubuque, Iowa, assignor to Klauer Manufacturing Company. Ventilator. 2,404,961; July 30.

Hoekstra, John N., Royal Oak, Mich. Alarm system. 2,404,842; July 30.

Hoffman, James A., Roselle, N. J., assignor to The Linde Air Products Company. Method of and apparatus for making glass products, such as fibers and rods. 2,405,036; July 30.

Hofheimer, H. Clay, II, assignee: *See*—
Mallard, Logan L.

Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Reinforcing expander tube construction. 2,404,801; July 30.

Holt, Francis A.: *See*—
Crouse, George B., and Holt.

Hopkins, Nevil M., deceased, New York, N. Y.; R. B. Hopkins, executor, assignor, by mesne assignments, to R. B. Hopkins, S. Lloyd, and M. T. Quigg, as trustees. Torpedo. 2,404,908; July 30.

Hopkins, Raymonde B., assignee, trustee, et al.: *See*—
Hopkins, Nevil M.

Hopkins, Raymonde B., executor: *See*—
Hopkins, Nevil M.

Hopwood, John M., assignee: *See*—
Anderson, George R.
Donaldson, Robert R.

Horlacher, Albert F., Genoa, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Sound translating device. 2,404,877; July 30.

Howell, Fred E., assignee: *See*—
Truesdell, Robert S.

Hsu, Eugene T., Schenectady, N. Y., assignor to General Electric Company. High-frequency heating apparatus. 2,405,037; July 30.

Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Pressure switch. 2,404,843; July 30.

Hughes, Everett C.: *See*—
Burk, Robert E., and Hughes.

Hydraulic Brake Company, assignee: *See*—
La Brie, Ludger E.

Hylton, Henry: *See*—
Schmid, Paul, and Hylton.

Induction Heating Corp., assignee: *See*—
Rudd, Wallace C.

Invex Inc., assignee: *See*—
Craig, Palmer H.

Ipatieff, Vladimir N.: *See*—
Schmerling, Louis, and Ipatieff.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Rousky, Samuel.
Carlson, Bert G.
Scofield, Philip F.

Jackson, George W., assignor to American Optical Company, Southbridge, Mass. Machine and method for edging articles. 2,404,844; July 30.

Jennings, Alfred J., Bridgeport, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carburetor diaphragm. 2,405,038; July 30.

Jesionowski, Raymond S., assignor to Plax Corporation, Hartford, Conn. Die unit for extruding shapes of organic plastic materials. 2,405,039; July 30.

Joachim, Joseph G., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich. Latch handle assembly. 2,404,845; July 30.

Johnson, A. Parley, assignee: *See*—
Harford, Dwight L.

Johnson, Joseph E., Islington, Mass. Necktie. 2,404,962; July 30.

Johnston, Lawrence M., Indianapolis, Ind., assignor to himself, as trustee. Single point release for parachute harness. 2,404,909; July 30.

Jones, Maurice F., Pittsburgh, and H. F. Hanson, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tensioning device. 2,404,983; July 30.

Jones, Ruel C.: *See*—
Whittaker, Charles C., and Jones.

Jones, Ruel C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric catapult and power plant. 2,404,984; July 30.

Kalisher, Benjamin, assignor to Wood-Flex Fashions Inc., Poughkeepsie, N. Y. Handbag material. 2,404,846; July 30.

Keller, Auguste V., Long Island City, N. Y., assignor, by mesne assignments, to H. Thompson, Minneapolis, Minn. Plastic composition and making. 2,404,910; July 30.

Kellogg Switchboard and Supply Company, assignee: *See*—
Brodie, George H.

Kennedy, Angus B., Chambersburg, Pa. Leaching apparatus. 2,405,105; July 30.

Kessler, Wilbur, Newtown Square, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,404,847; July 30.

Kessler, Wilbur, Newtown Square, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,404,848; July 30.

Kilgore, Lee A., Wilkinsburg, and H. E. Criner, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Oscillation generating system. 2,404,965; July 30.

Kimball, James L., Danvers, assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass. Regulator. 2,404,849; July 30.

King, Elmer I., Jeannette, Pa. Mechanic's square. 2,404,911; July 30.

King, John H.: *See*—
Bostwick, Lee G., and King.

Kingston, Richard J., Ogden, Utah. Tile forming mold. 2,404,966; July 30.

Klauer Manufacturing Company, assignee: *See*—
Hoch, Grover C.

Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Driving and stopping mechanism for sewing machines. 2,404,850; July 30.

Knowles, Frank W., and H. A. Dudley, Seattle, Wash.; said Dudley assignor to said Knowles. Refrigerated locker. 2,404,851; July 30.

Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Automatic frequency control. 2,404,852; July 30.

Kropp, Einar: *See*—
Burk, Robert E., and Kropp.

Krouse, Glen N., Columbus, Ohio. Consecutive number-printing apparatus. 2,404,912; July 30.

Kubatzky, Otto, St. Louis, Mo., assignor of one-fourth to F. W. Watkins, Cleveland, Ohio. Ventilated window. 2,404,807; July 30.

Kubicki, William J., Webster, Mass. Making platform shoes. 2,404,878; July 30.

La Brie, Ludger E., assignor to Hydraulic Brake Company, Detroit, Mich. Master cylinder and reservoir. 2,405,093; July 30.

Lalco, Joseph P., and V. L. Ronci, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,404,802; July 30.

Landon, Walter S., assignor to Detroit Lubricator Company, Detroit, Mich. Fluid control for oil burners. 2,404,853; July 30.

Larsen, Robert M.: *See*—
Gallanty, Irving B., and Larsen.

Latchum, John W., Jr., and J. S. Connors, Bartlesville, Okla., assignors to Phillips Petroleum Company. Regeneration of absorbent. 2,404,854; July 30.

Lateur, Gaston L., Menlo Park, Calif. Conical cap for collapsible tubes. 2,404,879; July 30.

Lateur, Gaston L., Menlo Park, Calif. Adjustable ship curve. 2,404,880; July 30.

Lawrence, A. C., Leather Company, assignee: *See*—
Griffin, Roger L., and Moore.

Lee, Floyd J., La Habra, assignor to J. C. Burnam, Whittier, Calif. Fire extinguishing device. 2,404,804; July 30.

Leiserson, Lee, Rochester, N. Y., assignor to Virginia Smelting Company, West Norfolk, Va. Agent for reducing the surface tension of liquids. 2,404,913; July 30.

Levaggi, Victor J., Jr., Beverly, Mass., assignor to United Last Company, Portland, Maine. Two-part collapsible last. 2,404,805; July 30.

Levy, Jerome B., assignor to Titeflex, Inc., Newark, N. J. Portable water purification and filtration unit. 2,404,967; July 30.

Leyer, Albert, Rieden, near Baden, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Regulating device for pressure fluid controlled prime movers. 2,404,968; July 30.

Liddington, Stanley J., Hamilton, Ontario, Canada, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical machine. 2,404,969; July 30.

Linde Air Products Company, The, assignee: *See*—
Hoffman, James A.

Lindsey, Henry A. D., U. S. Army, Hickam Field, Honolulu, Hawaii. Submarine detector. 2,404,806; July 30.

Lloyd, Samuel, assignee, trustee, et al.: *See*—
Hopkins, Nevil M.

Logan, Alexander: *See*—
Berggren, George E., Bertalan, and Logan.

Lovatt, John B.: *See*—
Tills, John W., Lovatt, and Potts.

Lowey, Francis J., Olmsted Falls, assignor to The S. K. Wellman Company, Cleveland, Ohio. Making bearings. 2,404,808; July 30.

Madland, Thorvald, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Hatch covers and locking means therefor. 2,405,040; July 30.

Magdsick, Henry H., East Cleveland, Ohio, assignor to General Electric Company. Multiflash lamp. 2,404,970; July 30.

Mahoney, John R., Pittsburgh, and H. J. Bichsel, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control circuit. 2,404,971; July 30.

Mallard, Logan L., Norfolk, Va. Pneumatic ice tray and cube release. 2,404,972; July 30.

Mallard, Logan L., assignor of one-half to H. C. Hofheimer, II, Norfolk, Va. Ice tray. 2,404,973; July 30.

Mallory, P. R., & Co., Inc., assignee: *See*—
Boode, James M.

Marquette Metal Products Company, assignee: *See*—
Sacchini, Columbus R.

Marshall, Gertrude R., Schenectady, N. Y., assignor to C. J. Bates & Son, Chester, Conn. Cable-stitch holder. 2,404,855; July 30.

Martin Band Instrument Company, The, assignee: *See*—
Swinehart, Oscar E.

Martin, James V., Rochelle Park, N. J. Steel spring spoke tire. 2,404,974; July 30.

Mathes, Kenneth N., and B. A. Wasiewicz, Schenectady, N. Y., assignors to General Electric Company. Preparation of methyl polysiloxane resins. 2,405,041; July 30.

Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Recording stylus. 2,404,975; July 30.

Mattox, William J., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of cyclic hydrocarbons. 2,404,914; July 30.

Mavec, Inc., assignee: *See*—
Beveridge, James M., and Cowan.

McClure, Laurence H., Jr., West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Sear release mechanism. 2,404,881; July 30.

McCormack, Alex A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,405,042; July 30.

McCullough, Paul J., assignor to J. Pavelka, St. Louis, Mo. Bread toaster structure. 2,404,915; July 30.

McCullough, Paul J., and C. H. Steuber, assignors to J. Pavelka, St. Louis, Mo. Automatic toaster. 2,404,976; July 30.

McGrew, Frank C.: *See*—
Coffman, Donald D., and McGrew.

McKeen, Thomas G., Torrance, Calif. Rodent trap. 2,404,856; July 30.

McLaren, Helen, assignee: *See*—
McLaren, Roy W.

McLaren, Helen H., administratrix: *See*—
McLaren, Roy W.

McLaren, Roy W., deceased, Oaklyn, N. J.; H. H. McLaren, administratrix, assignor to H. McLaren. Fastener for positioning, aligning, and securing plates for welding. 2,404,857; July 30.

McLaren, Roy W., deceased, Oaklyn, N. J.; H. H. McLaren, administratrix, assignor to H. McLaren, Oaklyn, Camden, N. J. Jig. 2,404,858; July 30.

Meinel, William J.: *See*—
Green, Samuel G., D'Ardenne, Meinel, and De Vore.

Meitner, Bela, Whitchurch, assignor to Aero Zlop Fasteners Limited, London, W. C. 1, England. Slider for sliding clasp fasteners. 2,404,977; July 30.

Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Injection system. 2,405,043; July 30.

Meller, Reginald B., Oakland, Calif. Box. 2,404,916; July 30.

Melling, George, Sr., Jackson, Mich. Machine tool. 2,404,859; July 30.

Michael, Ferris E., Rozel, Kans. Twin feed grain blower. 2,405,094; July 30.

Miller, Herbert W., Burbank, Calif. Water heater. 2,404,860; July 30.

Miller, Lawrence F.: *See*—
Hess, F. O., Miller, and Dietrich.

Minneapolis-Moline Paper Implement Company, assignee: *See*—
Wuertz, Paul P. and E. J.

Monaco, George C., Douglaston Hills, N. Y. Article handling apparatus. 2,404,882; July 30.

Monsanto Chemical Company, assignee: *See*—
Aelony, David.
Blake, Edward S.
Seymour, Raymond B.

Montague, Harry, assignee, et al.: *See*—
Trilling, David M., and Rich.

Montalvo, Leonilo, New York, N. Y. Magnetic means for keeping umbrellas closed. 2,405,044; July 30.

Moore, Norman Y.: *See*—
Griffin, Roger L., and Moore.

Morrow, John W.: *See*—
Hanson, Harold F., and Morrow.

Morton, Fidrel O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid speed indicator. 2,404,978; July 30.

Mouw, Andrew, Huntington Woods, assignor to No-Sag Spring Company, Detroit, Mich. Spring construction. 2,404,883; July 30.

Mueller, Erich O., Irwin, and R. H. Wagner, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Splashproof traction motor. 2,404,979; July 30.

Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic decice and control means therefor. 2,405,095; July 30.

Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic accumulator. 2,405,096; July 30.

Munschauer, Edwin A., Jr., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Machine control means. 2,404,980; July 30.

Murdock, Elmer C., Statesville, N. C. Abrading machine. 2,404,917; July 30.

Murphy, William H., executor: *See*—
De Lisle, Harold L.

Mydans, William E., Cambridge, Mass. Ordnance powder bag. 2,405,164; July 30.

Naftali, Valentine, Mount Vernon, N. Y. Making neckties. 2,404,981; July 30.

National Cash Register Company, The, assignee: *See*—
Grimes, William F.
Numma, Robert E.

Nelson, Evan H.: *See*—
Francis, Victor J., and Nelson.

Neuhart, Frederick C., Shidler, Okla., assignor to Phillips Petroleum Company. Nondestructive hydrocarbon conversion. 2,405,097; July 30.

Newell, William H.: *See*—
Poitras, Edward J., Tear, and Newell.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Electrical follow-up. 2,405,045; July 30.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Motion reproducing mechanism. 2,405,046; July 30.

Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Sight control mechanism. 2,405,047; July 30.

New York Air Brake Company, The, assignee: *See*—
Durrett, James J.
Huber, Matthew W.

Niagara Machine & Tool Works, assignee: *See*—
Munschauer, Edwin A., Jr.

Nickerson, Winfield T., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. 2,405,048; July 30.

North American Philips Company, Inc., assignee: *See*—
Beers, John B.
Garretson, Harry D.

No-Sag Spring Company, assignee: *See*—
Mouw, Andrew.

O'Brien, William J., Los Angeles, Calif., assignor to The Decca Record Company Limited, London, England. Compensating circuit. 2,404,809; July 30.

O'Brien, William J., Los Angeles, Calif., assignor to The Decca Record Company, Limited, London, England. Receiving apparatus for radio beacon systems. 2,404,810; July 30.

Oceanic Tank Processing Corp., assignee: *See*—
Sorrentino, Thomas.

Olsen, Tinius, Testing Machine Company, assignee: *See*—
Silvertsen, Jens.

Orio, Frank, Long Branch, N. J. Lapping machine. 2,404,811; July 30.

Overbeck, Wilcox P., Waltham, Mass., assignor to Research Corporation, New York, N. Y. Counting system. 2,404,918; July 30.

Overbeck, Wilcox P., Waltham, Mass., assignor to Research Corporation, New York, N. Y. Electronic switching device and circuit therefor. 2,404,919; July 30.

Overbeck, Wilcox P., Waltham, Mass., assignor to Research Corporation, New York, N. Y. Electronic discharge apparatus. 2,404,920; July 30.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Collins, Howard W.

Owens, James B., and R. H. Hitson, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Relay control circuit. 2,404,982; July 30.

Oxsen, Howard, Berkeley, Calif. Adjustable propeller shaft bearing. 2,404,921; July 30.

Padgett, William R., Pasadena, Tex. Miniature self-propelled airplane. 2,404,922; July 30.

Paragon Manufacturing Company, assignee: *See*—
Zeppone, Charles F.

Pattee, John R., assignor to The Bristol Company, Waterbury, Conn. Apparatus for detecting small direct currents. 2,405,049; July 30.

Patterson, Robert J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of butane. 2,404,923; July 30.

Pavelka, Joseph, assignee: *See*—
McCullough, Paul J.
McCullough, Paul J., and Steuber.

Peco Manufacturing Corporation, assignee: *See*—
Errig, William F., and De Hart.

Pengilly, Lewis, Palo Alto, Calif. Liquid fuel pump. 2,404,933; July 30.

Persson, Per O., South Bend, Ind., and C. W. Spohr, Chicago, Ill., assignors to the United States of America, as represented by the Secretary of War. Testing machine for metallic cartridge belt links. 2,405,098; July 30.

Petschauer, Edward F., Cleveland, Ohio. Page end indicator for typewriters. 2,404,861; July 30.

Pfuntner, Richard A., Saugus, and E. D. Wilson, Brookline, Mass., assignors to General Electric Company. Magnetic compass deviation compensator. 2,405,050; July 30.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring assembly element and making. 2,404,862; July 30.

Phillips Petroleum Company, assignee: *See*—
Axe, William N.
Freund, Robert R.
Garretson, Owen L.
Latchum, John W., Jr., and Connors.
Neuhart, Frederick C.
Patterson, Robert J.

Photo-Positive Corporation, assignee: *See*—
Crouse, George B., and Holt.

Pieper, Oliver T., Wilmington, Del., assignor to American Dyewood Company, New York, N. Y. Apparatus for handling powdered materials. 2,404,884; July 30.

Pile, Sydney, assignor to Teleflex Products Limited, London, England. Conveyer. 2,404,885; July 30.

Pittsburgh Plate Glass Company, assignee: *See*—
Gerhart, Howard L., and Adams.

Plax Corporation, assignee: *See*—
Dalin, George A.
Jesionowski, Raymond S.

Poitras, Edward J., Jackson Heights, and J. D. Tear, Great Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Stabilizing mechanism. 2,405,051; July 30.

Poitras, Edward J., Jackson Heights, J. D. Tear, Great Neck, and W. H. Newell, New York, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Gyroscopic mechanism. 2,405,052; July 30.

Posselt, Edward J., Fox Point, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for electric motor-driven traveling machines. 2,405,053; July 30.

Potts, Frank C.: *See*—
Tills, John W., Lovatt, and Potts.

Powell, Thomas M.: *See*—
Claussen, William H., and Powell.

Powers, Frank B., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric towing-car catapult for aircraft. 2,404,984; July 30.

Pringle, Orville R., Minneapolis, Minn. Elevating end gate. 2,405,054; July 30.

Prudhon, Glenn L., North Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical measuring system. 2,404,886; July 30.

Quigg, Murray T., assignee, trustee, et al.: *See*—
Hopkins, Nevill M.

Radio Corporation of America, assignee: *See*—
Bedford, Alda V.
Beshgetoor, Ray V.
Hammond, John Hays, Jr.
Koch, Winfield R.
Mathes, Richard E.
Reinhold, Leonhard F., and Spencer.

Randall, Althea: *See*—
Simons, Charles J., and Randall.

Rankin, John G., Tulare, Calif. Device for atomizing certain chemicals and oils for the production of dry oil steam for signaling. 2,404,812; July 30.

Reeves, Richard E., and J. E. Giddens, New Orleans, La., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Stabilization of nitrocellolose. 2,404,887; July 30.

Reinhold, Leonhard F., Staten Island, N. Y., and J. A. Spencer, Teaneck, N. J., assignors to Radio Corporation of America. Miss selection indicator. 2,404,813; July 30.

Reinhold, Leonhard F., Staten Island, N. Y., and J. A. Spencer, Teaneck, N. J., assignors to Radio Corporation of America. Selector. 2,404,814; July 30.

Rembold, Albert A., San Francisco, Calif. Card punch. 2,404,985; July 30.

Renwal Manufacturing Co., Inc., assignee: *See*—
Rosenbloom, Irving.

Republic Industries, Inc., assignee: *See*—
Gaines, Walter S.

Research Corporation, assignee: *See*—
Overbeck, Wilcox P.

Resinous Products & Chemical Company, The, assignee: *See*—
Bruson, Herman A.

Rice Barton Corporation, assignee: *See*—
Clem, Everett W.

Rich, George H.: *See*—
Trilling, David M., and Rich.

Richards, Oscar W., Snyder, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Microscope. 2,404,888; July 30.

Ringie, Donald F., Springfield, Vt., assignor, by mesne assignments, to the Government of the United States of America. Collocating gauge. 2,404,889; July 30.

Robinson, Harold A., R. E. Friedrich, and R. S. Spencer, assignors to The Dow Chemical Company, Midland, Mich. Magnesium hydroxide from sea water. 2,405,055; July 30.

Roethel Engineering Corporation, assignee: *See*—
Feuerlein, George R.

Romanow, Frank F.: *See*—
Harry, William R., and Romanow.

Ronci, Victor L.: *See*—
Laico, Joseph P., and Ronci.

Roseman, Zoltan, Cleveland, Ohio. Distributing conveyer. 2,404,863; July 30.

Rosenbloom, Irving, assignor to Renwal Manufacturing Co., Inc., New York, N. Y. Safety grater. 2,405,056; July 30.

Rosenstein, Aaron, New York, and H. Dolan, Brooklyn, assignors to Rosenstein Bros., New York, N. Y. Making insulated wire. 2,405,057; July 30.

Rosenstein Bros., assignee: *See*—
Rosenstein, Aaron, and Dolan.

Ross, Elliott P.: *See*—
Tear, James D., and Ross.

Ross, Elliott P., Forest Hills, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gyroscopic apparatus. 2,405,058; July 30.

Roth, Willard, Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotatory hearth furnace. 2,404,986; July 30.

Rudd, Wallace C., Larchmont, assignor to Induction Heating Corp., New York, N. Y. Induction heating and quenching device. 2,404,987; July 30.

Ruggles-Kinglemann Mfg. Co., assignee: *See*—
Kimball, James L.

Ryan, William, New York, N. Y. Map device. 2,404,988; July 30.

Sacchini, Columbus R., Euclid, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Fluid control apparatus. 2,404,924; July 30.

Sahmel, Viggo, Forest Hills, assignor to F. L. Smidth & Co., New York, N. Y. Indicating device for material treating apparatus. 2,405,059; July 30.

Sandow, Abraham, Plainfield, and A. A. Wenzel, West Orange, N. J. Making packing rings. 2,404,864; July 30.

Santolla, Angelo M.: *See*—
Hall, John L., and Santolla.

Satz, Frank, and M. Berns; said Satz assignor of one-half of his right to S. Sontag, Los Angeles, Calif. Sanitary applicator. 2,404,815; July 30.

Sauer, Christian H., Chico, Calif. Coupling device. 2,404,925; July 30.

Schermuly, Alfred J.: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Charles: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Conrad D., A. J., and C., assignors to The Schermuly Pistol Rocket Apparatus Limited, Parkgate, Newdigate, England. Mounting for guns or dischargers. 2,405,099; July 30.

Schermuly Pistol Rocket Apparatus Limited, assignee: *See*—
Schermuly, Conrad D., A. J., and C.

Schinke, Kurtiss P., assignee: *See*—
Somervell, Somervell B.

Schlumbohm, Peter, New York, N. Y. Compressor. 2,404,890; July 30.

Schmacht, Elmer, Rock Island, Ill. Earth excavator. 2,404,926; July 30.

Schmerling, Louis, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of isoparaffins. 2,404,927; July 30.

Schmid, Paul, Jamaica, and H. Hylton, assignors to Acme Air Appliance Co., Inc., Brooklyn, N. Y. Vulcanizer. 2,404,989; July 30.

Schmitt, Henry M., Glenside, assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,404,891; July 30.

Schoenfeld, David M.: *See*—
Armacost, Wilbur H., and Schoenfeld.

Schofield, Philip F., Cleveland Heights, assignor, by mesne assignments, to Jack & Heints Precision Industries, Inc., Cleveland, Ohio. Starter test stand. 2,405,060; July 30.

Schutten, Joseph J., Yucaipa, assignor to A. Friehauf, Los Angeles, Calif. Nail or dowel pin anchor. 2,404,928; July 30.

Scott, Milton J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Shellac modified resin. 2,404,892; July 30.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O., Miller, and Dietrich.
Walker, John M., Jr.

Semar, Harold W., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gear timing method. 2,404,865; July 30.

Senk, Philip J., St. Albans, N. Y. Jar grip. 2,404,991; July 30.

Seymour, Raymond B., Dayton, Ohio, assignor to Monsanto Chemical Company, Vinyl esters. 2,404,929; July 30.

Shaw, Clarence W., Grosse Pointe Woods, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Pump structure. 2,405,061; July 30.

Sheldon, Robert M., Los Angeles, Calif. Cable tension regulator. 2,405,062; July 30.

Shell Development Company, assignee: *See*—
Van Ess, Paul R., Watson, and Whitney.

Sheuman, James E., Waynesboro, Pa. Floating tool holder. 2,404,866; July 30.

Short Brothers (Rochester & Bedford) Limited, assignee: *See*—
Gouge, Arthur.

Silva, Frank C., San Jose, Calif. Fruit halving and pitting. 2,404,990; July 30.

Simons, Charles J., Medford, and A. Randall, Lynn, Mass. Hair curler. 2,404,867; July 30.

Sisson, Kenneth O., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Collimator. 2,405,063; July 30.

Sivertsen, Jens, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Pressure responsive controlling mechanism. 2,404,868; July 30.

Smidth, F. L., & Co., assignee: *See*—
Sahmel, Viggo.

Smith, Wilson T., Los Angeles, Calif. Well pump. 2,404,930; July 30.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Seal surface. 2,404,816; July 30.

Somervell, Somervell B., assignor to K. P. Schinke, New York, N. Y. Recoil mechanism. 2,404,931; July 30.

Sontag, Samuel, assignee: *See*—
Satz, Frank.

Sorrentino, Thomas, New York, assignor to Oceanic Tank Processing Corporation, Brooklyn, N. Y. Vacuum pumping system. 2,404,869; July 30.

Specialties Development Corporation, assignee: *See*—
Grant, Harry C., Jr., and Thomsen.

Spencer, James A.: *See*—
Reinhold, Leonhard F., and Spencer.

Spencer, Robert S.: *See*—
Robinson, Harold A., Friedrich, and Spencer.

Sperry Gyroscope Company, Inc., assignee: *See*—
Hansen, William W.

Spohr, Carl W.: *See*—
Persson, Per O., and Spohr.

Stafford, Alfred E., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Space discharge device. 2,404,803; July 30.

Standard Oil Company, The, assignee: *See*—
Burk, Robert E., and Hughes.
Burk, Robert E., and Kropp.

Stelzer, William, East Orange, N. J. Brake booster. 2,404,932; July 30.

Stephens, Foster M., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Pulsation elimination in gas lines. 2,405,100; July 30.

Steuber, Charles H.: *See*—
McCullough, Paul J., and Steuber.

Stockstrom, Carl, Kimmswick, Mo. Airport. 2,404,933; July 30.

Stone, Joseph E., South Euclid, Ohio, assignor to General Electric Company. Lamp filament connection. 2,404,992; July 30.

Strain, Daniel E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of copolymers of monoethenoid compounds. 2,404,817; July 30.

Stuellein, William H.: *See*—
Dickinson, Robert C., Stuellein, and Florschutz.

Sullivan, Alan P., Elizabeth, N. J., assignor to Cities Service Oil Company, New York, N. Y. Gas analyzer. 2,404,993; July 30.

Supack, Isidor, Bronx, N. Y. Roofing material. 2,404,994; July 30.

Swinehart, Oscar E., assignor to The Martin Band Instrument Company, Elkhart, Ind. Valve action for cornets, trumpets, and like instruments. 2,404,818; July 30.

Switzer, Joseph L., assignee, et al.: *See*—
Ward, Richard A.

Switzer, Robert C., assignee, et al.: *See*—
Ward, Richard A.

Tchorni, David L., Plainfield, and G. S. Watson, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of diazotized 2,4-dinitro-6-halogen aniline. 2,404,893; July 30.

Tear, James D.: *See*—
Poitras, Edward J., and Tear.
Poitras, Edward J., Tear, and Newell.

Tear, James D., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Gun sight. 2,405,064; July 30.

Tear, James D., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Power-driven gun with automatically positioned sight. 2,405,065; July 30.

Tear, James D., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Position reproducing mechanism. 2,405,066; July 30.

Tear, James D., Great Neck, and C. W. Buckley, Mount Vernon, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Gun sight. 2,405,067; July 30.

Tear, James D., Great Neck, and E. P. Ross, Forest Hills, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Gun sight. 2,405,068; July 30.

Teleflex Products Limited, assignee: *See*—
Pile, Sydney.

Thommen, Hans, and G. Brühlmann, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas blast circuit breaker. 2,404,995; July 30.

Thompson, Howard, assignee: *See*—
Keller, Auguste V.

Thompson Products, Inc., assignee: *See*—
Snyder, Jacob R.

Thompson, Ralph B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,404,934; July 30.

Thomsen, William A. V.: *See*—
Grant, Harry C., Jr., and Thomsen.

Thrush, H. A., & Company, assignee: *See*—
Thrush, Marquis O.

Thrush, Marquis O., assignor to H. A. Thrush & Company, Peru, Ind. Adjustable supply T. 2,404,996; July 30.

Tills, John W., Upton, Wirral, J. B. Lovatt, Hoylake, Wirral, and F. C. Potts, Upton, Wirral, England. Production of high vacua. 2,404,997; July 30.

Tillyer, Edgar D.: *See*—
Bennett, Alva H., and Tillyer.

Titeflex, Inc., assignee: *See*—
Levy, Jerome B.

Tonks, Lewi, Schenectady, N. Y., assignor to General Electric Company. Pulse generating system. 2,405,069; July 30.

Tonks, Lewi, Schenectady, N. Y., assignor to General Electric Company. Pulse generating system. 2,405,071; July 30.

Tonks, Lewi, Schenectady, and M. Davis, Alplaus, N. Y., assignors to General Electric Company. Square wave pulse generating system. 2,405,070; July 30.

Trilling, David M., assignee, et al.: *See*—
Trilling, David M., and Rich.

Trilling, David M., Merion, and G. H. Rich, Philadelphia, assignors to D. M. Trilling, Merion, and H. Montague, Philadelphia, Pa. Space heater. 2,405,072; July 30.

Troell, Roy E., Schenectady, N. Y., assignor to General Electric Company. Phase comparator. 2,405,073; July 30.

Truesdell, Robert S., Los Angeles, assignor of thirty-five one-hundredths to F. E. Howell, Long Beach, and twenty-five one-hundredths to F. W. Harrington, Los Angeles, Calif. Reconditioning files. 2,405,101; July 30.

Trumbull Electric Manufacturing Company, The, assignee: *See*—
Anderson, William C.

Twin Coach Company, assignee: *See*—
Fageol, William B.

Ulrich, Theodore, Milwaukee, Wis., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Body for vehicles, especially for pleasure automobiles. 2,404,870; July 30.

Underwood, James E., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Method and machine for assembling articles. 2,405,074; July 30.

Union Carbide and Carbon Corporation, assignee: *See*—
Bucknam, Worthy C.

Union Switch & Signal Company, The, assignee: *See*—
Brown, Robert H.

United Aircraft Corporation, assignee: *See*—
Meitzler, Donald E.

United Last Company, assignee: *See*—
Levaggi, Victor J., Jr.

United Shoe Machinery Corporation, assignee: *See*—
Fossa, Joseph.
Knott, Clyde L.
Winkley, Erastus E.

Universal Oil Products Company, assignee: *See*—
Mattox, William J.
Schmerling, Louis, and Ipatieff.
Thompson, Ralph B.

Van Ess, Paul R., Berkeley, F. J. Watson, Oakland, and G. M. Whitney, Piedmont, assignors to Shell Development Company, San Francisco, Calif. Lubricating compositions. 2,404,871; July 30.

Victor Metal Products Corporation, assignee: *See*—
Crowley, Charles.

Virginia Smelting Company, assignee: *See*—
Leiserson, Lee.

Vizard, William C., assignor to Barbour Welting Company, Brockton, Mass. Shoe welting. 2,404,998; July 30.

Vokes, Cecil G., London, England. Air intake filter for aircraft. 2,405,102; July 30.

Vollrath, Joseph P., Glenside, assignor to The Brown Instrument Company, Philadelphia, Pa. Protecting tube. 2,405,075; July 30.

Vollrath, Joseph P., Glenside, assignor to The Brown Instrument Company, Philadelphia, Pa. Thermocouple. 2,405,076; July 30.

Von der Heide, Elmer J., Akron, Ohio. Vulcanizer. 2,405,077; July 30.

Wagner, Richard H.: *See*—
Mueller, Erich O., and Wagner.

Walker, John M., Jr., Philadelphia, Pa., assignor to Selas Corporation of America. Method of and apparatus for separating immiscible fluids. 2,404,872; July 30.

Wallace, James M., Braddock, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,404,999; July 30.

War, United States of America, as represented by the Secretary of, assignee: *See*—
Persson, Per O., and Spohr.

Ward, Richard A., Cleveland, assignor to R. C. Switzer, South Euclid, and J. L. Switzer, Cleveland Heights, Ohio. Method and compositions for locating surface discontinuities. 2,405,078; July 30.

Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Supervision of electric systems. 2,405,079; July 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Relay protective arrangement. 2,405,080; July 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Relay arrangement for protecting electric power systems. 2,405,081; July 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Relay protective arrangement. 2,405,082; July 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Out-of-step relay arrangement. 2,405,083; July 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Protective apparatus. 2,405,084; July 30.
Wasiewicz, Bridget A.: *See*— Mathes, Kenneth N., and Wasiewicz.
Watkins, Frank W., assignee: *See*— Kubatzky, Otto.
Watson, Forrest J.: *See*— Van Ess, Paul R., Watson, and Whitney.
Watson, Glenn S.: *See*— Tchorni, David L., and Watson.
Weisel, Eliza J., Van Nuys, Calif. Bedding for infants' cribs. 2,404,935; July 30.
Wellman, S. K. Company, The, assignee: *See*— Lowey, Francis J.
Wensel, Albert A.: *See*— Sandow, Abraham, and Wensel.
Western Electric Company, Incorporated, assignee: *See*— Berggren, George R., Bertalan, and Logan.
Prudhon, Glenn L.
Stafford, Alfred E.
Westinghouse Electric Corporation, assignee: *See*— Carlin, Herbert J.
Croco, Charles P.
Dickinson, Robert C., Stuellein, and Florschutz.
Godsey, Frank W., Jr.
Goldsborough, Shirley L.
Graybill, Howard W.
Hanson, Harold F., and Morrow.
Jones, Maurice F., and Hanson.
Jones, Rnel C.
Kessler, Wilbur.
Kilgore, Lee A., and Criner.
Liddington, Stanley J.
Mahoney, John E., and Bichsel.
Morton, Eldred O.
Mueller, Erich O., and Wagner.
Owens, James B., and Hitson.
Powers, Frank B.
Roth, Willard.
Semar, Harold W.
Wallace, James M.
Whittaker, Charles C.
Whittaker, Charles C., and Jones.
Woodman, Kenneth L.
Wheelco Instruments Company, assignee: *See*— Cohen, Theodore A.
White, Thomas L., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Tunnel liner segment. 2,404,819; July 30.
Whited, Clarence A., Jenkins, Ky. Roller skate attachment. 2,405,000; July 30.
Whitney, Gary M.: *See*— Van Ess, Paul R., Watson, and Whitney.
Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shock asborbing device. 2,405,001; July 30.
Whittaker, Charles C., and R. C. Jones, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for torpedoes. 2,405,002; July 30.
Widmer, Jules A., Oak Ridge, Tenn., and B. H. Carroll, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic filter and antihalation layers. 2,405,106; July 30.
Williams, Ollin W.: *See*— Brown, Luther E., and Williams.
Wills, Henry P., Ottawa, Ontario, Canada, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Emergency relief valve for use in automatically by-passing a hydraulic unit or the like. 2,404,936; July 30.
Wills, Walter P., Philadelphia, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring apparatus. 2,404,894; July 30.
Wilson, Eleanor D.: *See*— Pfuntner, Richard A., and Wilson.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for treating tanned skins. 2,404,873; July 30.
Winn, Bertelle I., Yonkers, N. Y. Electric caldron. 2,405,103; July 30.
Wohl, Maurice J., Brooklyn, N. Y. Electric snap switch. 2,404,874; July 30.
Wood-Flex Fashions Inc., assignee: *See*— Kalisher, Benjamin.
Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostat. 2,405,003; July 30.
Worrall, George H., Los Angeles, Calif. Kinetograph movement. 2,404,875; July 30.
Wright Aeronautical Corporation, assignee: *See*— Chilton, Roland.
Wuertz, Elmer J.: *See*— Wuertz, Paul P. and E. J.
Wuertz, Paul P., Melrose, and E. J. Wuertz, Paynesville, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Loader. 2,404,820; July 30.
Youngstown Steel Door Company, The, assignee: *See*— Madland, Thorvald.
Zap, Edward F., Los Angeles, Calif. Variable wing construction. 2,404,895; July 30.
Zappone, Charles F., Greensburg, assignor to Paragon Manufacturing Company, New Derry, Pa. Ammunition time fuse. 2,405,085; July 30.
Zeller, Wilbur U., U. S. Army, New York, N. Y. Collapsible contact printer. 2,404,821; July 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid-containing stock, Treating fatty. R. H. Potts. Re. 22,775; July 30.

Rotary heat motor. G. W. Crise. Re. 22,774; July 30.

LIST OF DESIGN INVENTIONS

Apron. H. Pons. 145,327; July 30.
Bracelet and ring, Combined. T. Lowenst. 145,318; July 30.
Brooch or similar article. A. Katz. 145,301–2; July 30.
Brooch or similar article. A. Philippe. 145,325; July 30.
Brush, Lip. W. B. Crane. 145,286; July 30.
Chain for a bracelet or similar article, Link. G. E. Fournier. 145,292; July 30.
Chessmen, Set of. A. R. Scott. 145,335; July 30.
Clock, Alarm. J. A. Hill. 145,298; July 30.
Clock, Desk, H. Levitan. 145,316; July 30.
Clock, Mantel. H. Levitan. 145,314–15; July 30.
Clock, Mantel, H. Levitan. 145,317; July 30.
Clothespin. J. E. Cronan. 145,287; July 30.
Dress. K. Rost. 145,329–34; July 30.
Dress or similar article. J. Frandsen. 145,293; July 30.
Earring. J. J. Marsella. 145,321; July 30.
Earring or similar article. A. Philippe. 145,326; July 30.
Fabric, Printed. E. S. Kales. 145,300; July 30.
Front piece for eyeglasses. L. L. Adolf. 145,282; July 30.
Hammock body or the like. A. J. Kolonics. 145,303–6; July 30.
Handle. F. C. Wallace. 145,343; July 30.
Handle for tray or the like. F. Abelson. 145,280–1; July 30.
Holder, Collar. O. V. Anderson. 145,283–4; July 30.
Holder, Toothbrush. G. J. Evelich. 145,291; July 30.
Jacket or similar article. M. Sices. 145,336–8; July 30.
Leather, Embossed. L. I. Freedman. 145,294; July 30.
Lighter or similar article, Cigarette. N. M. Robboy. 145,328; July 30.
Lighting fixture, Fluorescent. C. Nitardy. 145,323; July 30.
Mat or similar article, Table. H. J. Muller. 145,322; July 30.
Mirror or similar article. H. H. Lessler. 145,312; July 30.
Pin or similar article, Jewelry. J. J. Marsella. 145,319–20; July 30.
Rattle, Baby. I. Tucker. 145,342; July 30.
Ring, Finger. C. E. Holmes. 145,299; July 30.
Scarf. R. T. Lee. 145,311; July 30.
Spoon, Anniversary. A. Stokby. 145,339; July 30.
Stand for combs and the like, Display. V. J. Dunn. 145,289–90; July 30.
Stand, Lamp. J. E. Thodos. 145,340; July 30.
Sunglasses. J. Di Cicco. 145,288; July 30.
Support, Telescope. W. Levin. 145,313; July 30.
Tool, Fence. J. Thompson. 145,341; July 30.
Towel or similar article. L. H. Hall. 145,297; July 30.
Towel or similar article. A. Lange. 145,307–10; July 30.
Toy figure or similar article. C. R. White. 145,344; July 30.
Toy, Hammer. E. D. Geissler. 145,295; July 30.
Toy, Net. E. D. Geissler. 145,296; July 30.
Toy, Whirligig. J. A. Brewer. 145,285; July 30.
Vehicle, Child's. J. N. and S. M. O'Connor. 145,324; July 30.
Wind indicating apparatus or similar article. L. E. Wood. 145,345; July 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF JULY, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading machine. E. C. Murdock. 2,404,917; July 30.
Absorbent, Regeneration of. J. W. Latchum, Jr., and J. S. Connors. 2,404,854; July 30.
Accumulator, Electronic. R. E. Mumma. 2,405,096; July 30.
Acoustic device. L. G. Bostwick. 2,404,784; July 30.
Adjustable drafting stand. H. L. De Lisle. 2,404,949; July 30.
Adjustable propeller shaft bearings. H. Oxsen. 2,404,921; July 30.
Aircraft power plant. F. W. Godsey, Jr. 2,404,954; July 30.
Airplane, Miniature self-propelled. W. R. Padgett. 2,404,922; July 30.
Airport. C. Stockstrom. 2,404,933; July 30.
Alarm system. J. N. Hoekstra. 2,404,842; July 30.
Alkyl bromides, Production of. W. Hirschkind. 2,404,800; July 30.
Alkylation process. W. N. Axe. 2,404,897; July 30.
Alpha-ray emission device and making the same. I. Feuer and L. Goldstein. 2,405,026; July 30.
Anchor, Nail or dowel pin. J. J. Schutten. 2,404,928; July 30.
Apparatus for communication systems. R. H. Brown. 2,404,773; July 30.
Apparatus for detecting small direct currents. J. R. Pattee. 2,405,049; July 30.
Apparatus for forming ornamental trimming. A. Beckelman. 2,404,941; July 30.
Apparatus for fractional distillation. R. E. Burk and E. Kropp. 2,404,789; July 30.
Apparatus for handling powdered materials. O. T. Pieper. 2,404,884; July 30.
Apparatus for producing ozone. D. K. Allison. 2,404,778; July 30.
Apparatus for radio receiving beacons, Radio. W. J. O'Brien. 2,404,810; July 30.
Apparatus for reduction of oxides. H. A. Brassert. 2,404,944; July 30.
Applicator, Sanitary. F. Satz and M. Berns. 2,404,815; July 30.
Article handling apparatus. G. C. Monaco. 2,404,882; July 30.
Assembling apparatus. G. E. Berggren, E. Bertalan, and A. Logan. 2,404,782; July 30.
Assembling articles, Method and machine for. J. E. Underwood. 2,405,074; July 30.
Automatic cutoff pump. B. N. Ashton. 2,405,006; July 30.
Automatic hook. G. R. Dempster. 2,404,830; July 30.
Bag: *See*—
Ordnance powder bag.
Band for pies and the like, Cover holding. W. Ehrlich. 2,404,776; July 30.
Bank control, Automatic. B. G. Carlson. 2,405,015; July 30.
Battery. D. L. Harford. 2,405,034; July 30.
Bearing: *See*—
Adjustable propeller shaft bearing.
Bearings, Making. F. J. Lowey. 2,404,808; July 30.
Bedding for infants' cribs. E. J. Weisel. 2,404,935; July 30.
Blade, Propeller. L. H. Enos. 2,405,022; July 30.
Blower, Twin feed grain. F. E. Michael. 2,405,094; July 30.
Body for vehicles, especially for pleasure automobiles. T. Ulrich. 2,404,870; July 30.
Box. R. B. Meller. 2,404,916; July 30.
Brake booster. W. Stelzer. 2,404,932; July 30.
Butane, Isomerization of. R. J. Patterson. 2,404,923; July 30.
Cable-stitch holder. G. R. Marshall. 2,404,855; July 30.
Cable tension regulator. R. M. Sheldon. 2,405,062; July 30.
Caldron, Electric. B. I. Winn. 2,405,103; July 30.
Cap for collapsible tubes, Conical. G. L. Lateur. 2,404,879; July 30.
Case: *See*—
Cigarette case.
Catapult for aircraft, Electric towing-car. F. B. Powers. 2,404,984; July 30.
Centrifugal compressor. W. T. Nickerson. 2,405,048; July 30.
Chair. J. A. Campbell. 2,405,013; July 30.
Chamfering machine. L. Albiani. 2,405,004; July 30.
Cigarette case. J. M. Beveridge and C. J. Cowan. 2,405,009; July 30.

Circuit: *See*—
Compensating circuit. Relay control circuit.
Control circuit.
Circuit arrangement, Electrical. H. D. Garretson. 2,404,905; July 30.
Circuit breaker. R. C. Dickinson, W. H. Stuellein, and F. E. Florschutz. 2,404,950; July 30.
Circuit breaker, Gas blast. H. Thommen and G. Brühlmann. 2,404,995; July 30.
Circuit interrupter. H. W. Graybill. 2,404,957; July 30.
Circuit interrupter. J. M. Wallace. 2,404,999; July 30.
Clasp, Earring. L. Feingold. 2,405,025; July 30.
Clutch: *See*—
Fluid actuated clutch.
Collimator. K. O. Sisson. 2,405,063; July 30.
Collocating gauge. D. F. Ringle. 2,404,889; July 30.
Combing and ironing machine, Fur. R. L. Griffin and N. Y. Moore. 2,405,032; July 30.
Communication system, Secrecy. J. H. Hammond, Jr. 2,404,839; July 30.
Comparator, Phase. R. E. Troell. 2,405,073; July 30.
Compensating circuit. W. J. O'Brien. 2,404,809; July 30.
Compressor. P. Schlumbohm. 2,404,890; July 30.
Conjoint polymerization of vinyl chloride with fumaric esters. H. W. Arnold. 2,404,780; July 30.
Container and closure therefor. W. S. Gaines. 2,404,777; July 30.
Control apparatus. H. M. Schmitt. 2,404,891; July 30.
Control apparatus, Automatic burner. T. A. Cohen. 2,404,903; July 30.
Control apparatus, Fluid. C. R. Sacchini. 2,440,924; July 30.
Control circuit. J. R. Mahoney and H. J. Bichsel. 2,404,971; July 30.
Control device, Fluid pressure. H. C. Grant, Jr., and W. A. V. Thomsen. 2,404,796; July 30.
Control for oil burners, Fluid. W. S. Landon. 2,404,853; July 30.
Control for pulverizer mills, System of. G. R. Anderson. 2,404,937; July 30.
Control in an electromechanical device, Moisture. L. G. Bostwick. 2,404,786; July 30.
Control mechanism. S. G. Green, W. H. D'Ardenne, W. J. Meinel, and W. De Vore. 2,404,958; July 30.
Control mechanism, Sight. W. H. Newell. 2,405,047; July 30.
Control of electrolytic processes. C. P. Croco. 2,404,948; July 30.
Control system. H. Bany and A. W. Bateman. 2,405,007; July 30.
Control system for torpedoes. C. C. Whittaker and R. C. Jones. 2,405,002; July 30.
Controller, Circuit. J. F. Beal. 2,404,940; July 30.
Controller for electric motor driven traveling machines. E. J. Posselt. 2,405,053; July 30.
Controlling mechanism, Pressure responsive. J. Sivertsen. 2,404,868; July 30.
Conveyer. S. Pile. 2,404,885; July 30.
Conveyer, Distributing. Z. Roseman. 2,404,863; July 30.
Cooling apparatus for bottled beverages. A. M. Culberth. 2,405,091; July 30.
Copolymerization of asymmetrical dihalogenated ethylenes. H. W. Arnold. 2,404,779; July 30.
Copolymers of monoethenoid compounds, Production of. D. E. Strain. 2,404,817; July 30.
Cotton fabrics with differential elastic properties, Making. C. F. Goldthwait. 2,404,837; July 30.
Counting system. W. P. Overbeck. 2,404,918; July 30.
Coupling device. C. H. Sauer. 2,404,925; July 30.
Covers and locking means therefor, Hatch. T. Madland. 2,405,040; July 30.
Crosshead. R. R. Freund. 2,404,835; July 30.
Curler, Hair. C. J. Simons and A. Randall. 2,404,867; July 30.
Curtain traverse wheel. T. Dierking. 2,405,020; July 30.
Cyclic hydrocarbons, Manufacture of. W. J. Mattox. 2,404,914; July 30.
Cylinder and reservoir, Master. L. E. La Brie. 2,405,093; July 30.
Damping mechanism. R. E. Crooke. 2,405,017; July 30.
Detector and relaying system, Long-line fault. S. L. Goldsborough. 2,404,955; July 30.
Detector, Submarine. H. A. D. Lindsey. 2,404,806; July 30.
Device for atomizing certain chemicals and oils for the production of dry oil steam for signaling. J. G. Rankin. 2,404,812; July 30.

Device for control valves, Adjusting. J. J. Durrett. 2,404,831; July 30.
Device for pressure fluid controlled prime movers, Regulating. A. Leyer. 2,404,968; July 30.
Device for timepieces, Tight winding. J. A. Boninchi. 2,405,087; July 30.
Diaphragm, Carburetor. A. J. Jennings. 2,405,038; July 30.
Diazotized 2,4-dinitro-6-halogen aniline, Preparation of. D. L. Tchorni and G. S. Watson. 2,404,893; July 30.
Discharge apparatus, Electronic. W. P. Overbeck. 2,404,920; July 30.
Discharge device, Gaseous. P. H. Craig. 2,405,089; July 30.
Discharge device, Space. A. E. Stafford. 2,404,803; July 30.
Door latch. G. R. Feuerlein. 2,405,027; July 30.
Double-acting engine. R. E. Heald. 2,404,906; July 30.
Double-throw switch. W. C. Anderson. 2,405,005; July 30.
Driving mechanism. D. H. Heynau. 2,404,907; July 30.
Dye planographic printing compositions, Direct. C. A. Amick. 2,404,769; July 30.
Edging articles, Machine and method for. G. W. Jackson. 2,404,844; July 30.
Electric catapult and power plant. R. C. Jones. 2,404,964; July 30.
Electric discharge lamp. V. J. Francis and E. H. Nelson. 2,404,953; July 30.
Electric snap switch. M. J. Wohl. 2,404,874; July 30.
Electric systems, Supervision of. A. R. van C. Warrington. 2,405,079; July 30.
Electrical follow-up. W. H. Newell. 2,405,045; July 30.
Electrical machine. S. J. Liddington. 2,404,969; July 30.
Electrical measuring system. G. L. Prudhon. 2,404,886; July 30.
Electrical relay. H. J. Carlin. 2,404,945; July 30.
Electrical switch. D. L. Harford. 2,405,035; July 30.
Electrolytic condenser and electrode therefor. J. M. Booe. 2,404,824; July 30.
Electromechanical device. L. G. Bostwick and J. H. King. 2,404,785; July 30.
Electromechanical device. W. R. Harry and F. F. Romanow. 2,404,798; July 30.
Electron discharge device. J. P. Laico and V. L. Ronci. 2,404,802; July 30.
Electronic device and control means therefor. R. E. Mumma. 2,405,095; July 30.
Elevating end gate. O. R. Pringle. 2,405,054; July 30.
Engine: *See*—
Double-acting engine.
Two-cycle internal-combustion engine.
Excavator, Earth. E. Schmacht. 2,404,926; July 30.
Exercising device. T. M. Eynon. 2,405,024; July 30.
Extinguishing device, Fire. F. J. Lee. 2,404,804; July 30.
Fabrics to inorganic solids, Bonding glass. H. W. Collins. 2,404,904; July 30.
Fastener for positioning, aligning, and securing plates for welding. R. W. and H. H. McLaren. 2,404,857; July 30.
Files, Reconditioning. R. S. Truesdell. 2,405,101; July 30.
Filter and antihalation layers, Photographic. J. A. Widmer. 2,405,106; July 30.
Filter for aircraft engines, Air intake. C. G. Vokes. 2,405,102; July 30.
Fire control apparatus. H. C. Ford. 2,405,028; July 30.
Float control valve. O. L. Garretson. 2,404,795; July 30.
Floating tool holder. J. E. Sheuman. 2,404,866; July 30.
Fluid actuated clutch. A. P. Adney. 2,404,822; July 30.
Fluid speed indicator. E. O. Morton. 2,404,978; July 30.
Foldable garment hanger. H. Greenberg. 2,404,959; July 30.
Frequency control, Automatic. W. R. Koch. 2,404,852; July 30.
Fruit halving and pitting. F. C. Silva. 2,404,990; July 30.
Furnace: *See*—
Rotatory hearth furnace.
Fuse. W. F. Errig and E. S. De Hart. 2,405,023; July 30.
Gas analyzer. A. P. Sullivan. 2,404,993; July 30.
Gate: *See*—
Elevating end gate.
Gauge: *See*—
Collocating gauge.
Gear: *See*—
Valve gear.
Gear timing method. H. W. Semar. 2,404,865; July 30.
Generating system, Oscillation. L. A. Kilgore and H. E. Criner. 2,404,965; July 30.
Glass products, such as fibers and rods, Method and apparatus for making. J. A. Hoffman. 2,405,036; July 30.
Governor, Hydraulic speed control. B. G. Carlson. 2,404,900; July 30.
Grater, Safety. I. Rosenbloom. 2,405,056; July 30.
Gripper, Automatic. C. Crowley. 2,405,018; July 30.
Gun sight. J. D. Tear. 2,405,064; July 30.
Gun sight. J. D. Tear and C. W. Buckley. 2,405,067; July 30.
Gun sight. J. D. Tear and E. P. Ross. 2,405,068; July 30.
Gyroscopic apparatus. E. P. Ross. 2,405,058; July 30.
Gyroscopic mechanism. E. J. Poitras, J. D. Tear, and W. H. Newell. 2,405,052; July 30.
Hammer for impact crushers. L. G. Ehmann. 2,404,775; July 30.
Hanger: *See*—
Foldable garment hanger.
Heat transfer apparatus and manufacture. P. R. Cassidy. 2,404,826; July 30.
Heater: *See*—
Space heater. Water heater.
Heating and quenching device, Induction. W. C. Rudd. 2,404,987; July 30.
Helicopter. C. E. Darrow. 2,404,829; July 30.
High-frequency heating apparatus. E. T. Hsu. 2,405,037; July 30.
High vacua, Production of. J. W. Tills, J. B. Lovatt, and F. C. Potts. 2,404,997; July 30.
Holder: *See*—
Cable-stitch holder. Floating tool holder.
Hook: *See*—
Automatic hook.
Hydrocarbon conversion. W. H. Claussen and T. M. Powell. 2,404,902; July 30.
Hydrocarbon conversion, Nondestructive. F. C. Neuhart. 2,405,097; July 30.
Hydrocarbons, Conversion of. R. B. Thompson. 2,404,934; July 30.
Hydroxy-di-(dihydronordicyclopentadiene). H. A. Bruson. 2,404,787; July 30.
Ice tray and cube release, Pneumatic. L. L. Mallard. 2,404,972; July 30.
Ignition device. F. O. Hess, L. F. Miller, and K. L. Dietrich, Jr. 2,404,841; July 30.
Indicating device for material treating apparatus. V Sahmel. 2,405,059; July 30.
Indicator: *See*—
Fluid speed indicator. Misselection indicator.
Indicator for typewriters, Page end. E. F. Petschauer 2,404,861; July 30.
Injection system. D. E. Meitzler. 2,405,043; July 30.
Insulated pipe. A. A. Durant. 2,405,021; July 30.
Insulated wire, Making. A. Rosenstein and H. Dolan. 2,405,057; July 30.
Isoparaffins, Manufacture of. L. Schmerling and V. N. Ipatieff. 2,404,927; July 30.
Jar grip. P. J. Senk. 2,404,991; July 30.
Jig. R. W. and H. H. McLaren. 2,404,858; July 30.
Kinetograph movement. G. H. Worrall. 2,404,875; July 30.
Lacing machine, Shoe upper. J. Fossa. 2,404,834; July 30.
Lamp: *See*—
Electric discharge lamp. Multiflash lamp.
Lamp filament connection. J. E. Stone. 2,404,992; July 30.
Lapping machine. F. Orio. 2,404,811; July 30.
Last, Two-part collapsible. V. J. Levaggi, Jr. 2,404,805; July 30.
Latch: *See*—
Door latch.
Latch handle assembly. J. G. Joachim. 2,404,845; July 30.
Leaching apparatus and method. A. B. Kennedy. 2,405,105; July 30.
Liner segment, Tunnel. T. L. White. 2,404,819; July 30.
Liquid fuel pump. L. Pengilly. 2,404,983; July 30.
Loader. P. P. and E. J. Wuertz. 2,404,820; July 30.
Locker, Refrigerated. F. W. Knowles and H. A. Dudley. 2,404,851; July 30.
Lubricating compositions. P. R. Van Ess, F. J. Watson, and G. M. Whitney. 2,404,871; July 30.
Machine control means. E. A. Munschauer, Jr. 2,404,980; July 30.
Machine for metallic cartridge belt links, Testing. P. O. Persson and C. W. Spohr. 2,405,098; July 30.
Machine for treating tanned skins. E. E. Winkley. 2,404,873; July 30.
Machine tool. G. Melling, Sr. 2,404,859; July 30.
Magnesium hydroxide from sea water. H. A. Robinson, R. E. Friedrich, and R. S. Spencer. 2,405,055; July 30.
Magnetic compass deviation compensator. R. A. Pfuntner and E. D. Wilson. 2,405,050; July 30.
Magnetic means for keeping umbrellas closed. L. Montalvo. 2,405,044; July 30.
Map device. W. Ryan. 2,404,988; July 30.
Material, Handbag. B. Kalisher. 2,404,846; July 30.
Measuring apparatus. W. P. Wills. 2,404,894; July 30.
Measuring device, Concentric line. W. W. Hansen. 2,404,797; July 30.
Mechanism for sewing machines, Driving and stopping. C. L. Knott. 2,404,850; July 30.
Meters, Accuracy regulating fluid. R. S. Bassett. 2,404,823; July 30.
Methyl polysiloxane resins, Preparation of. K. N. Mathes and B. A. Wasiewicz. 2,405,041; July 30.
Microscope. O. W. Richards. 2,404,888; July 30.
Misselection indicator. L. F. Reinhold and J. A. Spencer. 2,404,813; July 30.
Mold: *See*—
Tile forming mold.

Monothiazyl dithiocarbonates and preparing same. E. S. Blake. 2,404,771; July 30.

Motor: *See*—
Rotary heat motor. Submersible motor.
Splash proof traction motor. Two-phase motor.

Mounting for guns or dischargers. C. D., A. J., and C. Schermuly. 2,405,099; July 30.

Multiflash lamp. H. H. Magdsick. 2,404,970; July 30.

Necktie. J. E. Johnson. 2,404,962; July 30.

Neckties, Making. V. Naftali. 2,404,981; July 30.

Nitrocellulose, Stabilization of. R. E. Reeves and J. E. Giddens. 2,404,887; July 30.

Number-printing apparatus, Consecutive. G. N. Krouse. 2,404,912; July 30.

Nut, Safety. B. A. Clauson. 2,405,088; July 30.

Oil well tool. P. H. Granger. 2,404,876; July 30.

Olefins, Polymerizing. R. E. Burk and E. C. Hughes. 2,404,788; July 30.

Optical scanning device and making articles therewith. A. H. Bennett and E. D. Tillyer. 2,404,770; July 30.

Ordnance powder bag. W. E. Mydans. 2,405,104; July 30.

Organic plastic materials, Die unit for extruding shapes of. R. S. Jesionowski. 2,405,039; July 30.

Organo-silicon compounds containing a C-Si bond. G. A. Dalin. 2,405,019; July 30.

Oriented halogen-containing polymers, Treatment of. K. L. Berry and J. W. Hill. 2,405,008; July 30.

Packing, Making. J. J. Fiechter. 2,404,952; July 30.

Packing rings, Making. A. Sandow and A. A. Wenzel. 2,404,864; July 30.

Pad: *See*—
Shoulder pad.

Papermaking machine press section. E. W. Clem. 2,404,946; July 30.

Photographic developing process. F. Dersch and N. Heimbach. 2,404,774; July 30.

Pipe: *See*—
Insulated pipe.

Piston and cylinder device. W. H. Cook. 2,405,016; July 30.

Piston ring assembly element and making. H. P. Phillips. 2,404,862; July 30.

Plastic composition and making. A. V. Keller. 2,404,910; July 30.

Position reproducing mechanism. J. D. Tear. 2,405,066; July 30.

Power-driven gun with automatically positioned sight. J. D. Tear. 2,405,065; July 30.

Power-plant assembly and control. H. F. Hanson and J. W. Morrow. 2,404,960; July 30.

Pressure switch. M. W. Huber. 2,404,843; July 30.

Printer, Collapsible contact. W. U. Zeller. 2,404,821; July 30.

Protecting tube. J. P. Vollrath. 2,405,075; July 30.

Protective apparatus. A. R. van C. Warrington. 2,405,084; July 30.

Pulsation elimination in gas lines. F. M. Stephens. 2,405,100; July 30.

Pulse generating system. L. Tonks. 2,405,069; July 30.

Pulse generating system. L. Tonks. 2,405,071; July 30.

Pulse generating system, Square wave. L. Tonks and M. Davis. 2,405,070; July 30.

Pump: *See*—
Automatic cutoff pump. Well pump.
Liquid fuel pump.

Pump structure. C. W. Shaw. 2,405,061; July 30.

Pumping system, Vacuum. T. Sorrentino. 2,404,869; July 30.

Punch, Card. A. A. Rembold. 2,404,985; July 30.

Recoil mechanism. S. B. Somervell. 2,404,931; July 30.

Reducing the surface tension of liquids, Agent for. L. Leiserson. 2,404,913; July 30.

Refrigerating apparatus. A. A. McCormack. 2,405,042; July 30.

Regulator: *See*—
Cable tension regulator.

Regulator. J. L. Kimball. 2,404,849; July 30.

Relay arrangement for electric power systems. A. R. van C. Warrington. 2,405,081; July 30.

Relay arrangement, Out-of-step. A. R. van C. Warrington. 2,405,083; July 30.

Relay, Control circuit. J. B. Owens and R. H. Hitson. 2,404,982; July 30.

Relay protective arrangement. A. R. van C. Warrington. 2,405,080; July 30.

Relay protective arrangement. A. R. van C. Warrington. 2,405,082; July 30.

Release for parachute harness, Single point. L. M. Johnston. 2,404,909; July 30.

Release mechanism, Sear. L. H. McClure, Jr. 2,404,881; July 30.

Remote control of internal-combustion engines and clutches employed in ship propulsion, System for the. R. R. Donaldson. 2,404,951; July 30.

Reproducing mechanism, Motion. W. H. Newell. 2,405,046; July 30.

Resin, Shellac modified. M. J. Scott. 2,404,892; July 30.

Resins made with lignin and heat reactive condensation products and preparing the same. M. T. Harvey. 2,404,840; July 30.

Resins, Modified type alkyd. H. L. Gerhart and L. M. Adams. 2,404,836; July 30.

Riveter, Hot. W. F. Grimes. 2,405,033; July 30.

Rodent trap. T. G. McKeen. 2,404,856; July 30.

Roller skate attachment. C. A. Whited. 2,405,000; July 30.

Roofing material. I. Supack. 2,404,994; July 30.

Rotatory hearth furnace. W. Roth. 2,404,986; July 30.

Runway, Aircraft landing. C. R. Faben. 2,405,092; July 30.

Seal surface. J. R. Snyder. 2,404,816; July 30.

Selector. L. F. Reinhold and J. A. Spencer. 2,404,814; July 30.

Separating immiscible fluids, Method and apparatus for. J. M. Walker, Jr. 2,404,872; July 30.

Ship curve, Adjustable. G. L. Lateur. 2,404,880; July 30.

Shock absorbing device. C. C. Whittaker. 2,405,001; July 30.

Shoe welting. W. C. Vizard. 2,404,998; July 30.

Shoes, Making platform. W. J. Kubicki. 2,404,878; July 30.

Shoulder pad. B. Glickman. 2,405,030; July 30.

Signal device, Submarine. W. R. Harry and F. F. Romanow. 2,404,799; July 30.

Slider for sliding clasp fasteners. B. Meitner. 2,404,977; July 30.

Snap action mechanism. M. J. Caparone. 2,405,014; July 30.

Sound translating device. A. F. Horlacher. 2,404,877; July 30.

Space heater. D. M. Trilling and G. H. Rich. 2,405,072; July 30.

Splashproof traction motor. E. O. Mueller and R. H. Wagner. 2,404,979; July 30.

Spring construction. A. Mouw. 2,404,883; July 30.

Square, Mechanic's. E. I. King. 2,404,911; July 30.

Stabilizing mechanism. E. J. Poitras and J. D. Tear. 2,405,051; July 30.

Stand: *See*—
Adjustable drafting stand. Starter test stand.

Starter test stand. P. F. Scofield. 2,405,060; July 30.

Steering device. A. V. Bedford. 2,404,942; July 30.

Stoker apparatus, Spreader. W. Kessler. 2,404,847-8; July 30.

Stylus, Recording. R. E. Mathes. 2,404,975; July 30.

Submersible motor. C. J. Blom. 2,404,783; July 30.

Supply T, Adjustable. M. O. Thrush. 2,404,996; July 30.

Surface discontinuities, Method and compositions for locating. R. A. Ward. 2,405,078; July 30.

Switch: *See*—
Double-throw switch. Electrical switch.
Electric snap switch. Pressure switch.

Switch for high-frequency electrical oscillations. D. C. Espley. 2,404,832; July 30.

Switching device and circuit therefor, Electronic. W. P. Overbeck. 2,404,919; July 30.

Telephone transmitter. G. H. Brodie. 2,404,772; July 30.

Television signal-translating system. W. F. Bailey. 2,404,939; July 30.

Templates, Manufacture of. G. B. Crouse and F. A. Holt. 2,405,090; July 30.

Tensioning device. M. F. Jones and H. F. Hanson. 2,404,963; July 30.

Thermocouple. J. P. Vollrath. 2,405,076; July 30.

Thermostat. K. L. Woodman. 2,405,003; July 30.

Tile forming mold. R. J. Kingston. 2,404,966; July 30.

Time fuse, Ammunition. C. F. Zappone. 2,405,085; July 30.

Tire, Steel spring spoke. J. V. Martin. 2,404,974; July 30.

Toaster, Automatic. P. J. McCullough and C. H. Steuber. 2,404,976; July 30.

Toaster structure, Bread. P. J. McCullough. 2,404,915; July 30.

Tongue cleaning device. I. B. Gallanty and R. M. Larsen. 2,405,029; July 30.

Tool: *See*—
Machine tool. Oil well tool.

Tool. H. E. Dickerman. 2,404,793; July 30.

Torpedo. N. M. Hopkins. 2,404,908; July 30.

Toy top. R. P. Cordon. 2,404,947; July 30.

Trailer structure. W. F. Aycock. 2,404,898; July 30.

Trap: *See*—
Rodent trap.

Tray, Ice. L. L. Mallard. 2,404,973; July 30.

Tube: *See*—
Protecting tube.

Tube assembly, Cathode-ray. J. R. Beers. 2,404,899; July 30.

Tube construction, Reinforcing expander. C. Hollerith. 2,404,801; July 30.

Tube-severing mechanism. A. F. Cibs. 2,404,901; July 30.

Turbine plant, Gas. W. H. Armacost and D. M. Schoenfeld. 2,404,938; July 30.

Two-cycle internal-combustion engine. H. Forster. 2,404,833; July 30.

Two-phase motor. S. Bousky. 2,405,012; July 30.

Utilizing waste heat, Method of and apparatus for. D. Dalin. 2,404,792; July 30.

Valve: *See*—
Float control valve.

Valve. W. C. Bucknam. 2,405,010; July 30.

Valve action for cornets, trumpets, and like instruments. O. E. Swinehart. 2,404,818; July 30.

Valve for use in automatically by-passing a hydraulic unit or the like, Emergency relief. H. P. Wills. 2,404,936; July 30.

Valve gear. R. Chilton. 2,404,827; July 30.

Valve mechanism. R. Chilton. 2,404,828; July 30.

Vehicle suspension. W. B. Fageol. 2,404,794; July 30.

Ventilator. G. C. Hoch. 2,404,961; July 30.

Viewing device. R. V. Beshgetoor. 2,404,943; July 30.

Vinyl esters. R. B. Seymour. 2,404,929; July 30.

Vinyl polymers. H. W. Arnold, M. M. Brubaker, and G. L. Dorough. 2,404,781; July 30.

Vinyl polymers. D. D. Coffman and F. C. McGrew. 2,404,791; July 30.

Vitreous compositions. G. Buechner. 2,405,011; July 30.

Vulcanizer. P. Schmid and H. Hylton. 2,404,989; July 30.

Vulcanizer. E. J. von der Heide. 2,405,077; July 30.

Water heater. H. W. Miller. 2,404,860; July 30.

Water purification and filtration unit, Portable. J. B. Levy. 2,404,967; July 30.

Wax compositions, Polishing. D. Aelony. 2,404,896; July 30.

Well pump. W. T. Smith. 2,404,930; July 30.

Well tester. L. E. Brown and O. W. Williams. 2,404,825; July 30.

Wheel: *See*—
Curtain traverse wheel.

Wheels, Making abrasive. A. J. Bevillard. 2,405,086; July 30.

Winding machine control. J. L. Hall and A. M. Santolla. 2,404,838; July 30.

Window, Ventilated. O. Kubatzky. 2,404,807; July 30.

Wing construction, Variable. E. F. Zap. 2,404,895; July 30.

Wing lift modification. A. Gouge. 2,404,956; July 30.

Zinc sulphide, Producing luminescent. M. Goodman. 2,405,031; July 30.

CLASSIFICATION OF PATENTS

ISSUED JULY 30, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 145: 2,404,962
146: 2,404,981
268: 2,405,030
5— 189: 2,404,883
343: 2,404,935
8— 62: 2,404,769
115.5: 2,405,008
117: 2,404,837
12— 69.5: 2,404,834
136: 2,404,805
142: 2,404,878
146: 2,404,998
13— 21: 2,404,986
15— 15: 2,404,873
16— 87.8: 2,405,020
18— 6: 2,405,077
12: 2,405,039
18: 2,404,989
23— 3: 2,404,854
201: 2,405,055
255: 2,404,993
310: 2,405,105
24— 205: 2,404,909
205.5: 2,404,977
25— 127: 2,404,966
29— 33: 2,405,004
149.5: 2,404,808
156.6: 2,404,864
159.2: 2,404,865
203: 2,404,782
33— 46: 2,405,051
2,405,052
49: 2,405,028
2,405,047
2,405,063
103: 2,404,911
176: 2,404,880
180: 2,404,858
2,404,899
204: 2,405,058
225: 2,405,050
40—127.1: 2,404,812
41— 34: 2,404,846
41: 2,405,090
43— 80: 2,404,856
45— 131: 2,404,949
46— 70: 2,404,947
77: 2,404,922
49— 17: 2,405,036
51— 139: 2,404,917
142: 2,404,844
161: 2,404,811
165: 2,404,770
309: 2,405,086
58— 90: 2,405,087
60— 23 Re. 22,774
35.5: 2,404,954

60— 54.5: 2,404,932
54.6: 2,405,093
59: 2,404,938
61— 45: 2,404,819
62—108.5: 2,404,972
2,404,973
143: 2,405,091
63— 14: 2,405,025
66— 117: 2,404,855
67— 31: 2,404,970
69— 27: 2,405,032
73— 68: 2,404,965
118: 2,405,060
212: 2,404,978
233: 2,404,823
74— 100: 2,405,014
284: 2,404,907
76— 24: 2,405,101
82— 34: 2,404,859
84— 292: 2,404,818
85— 23: 2,404,928
88— 2.3: 2,405,063
18.4: 2,404,875
24: 2,404,943
2,404,988
40: 2,404,838
89— 27: 2,404,881
2,404,958
37: 2,405,099
41: 2,405,064
2,405,065
2,405,067
92— 49: 2,404,916
94— 7: 2,405,092
95— 8: 2,405,106
73: 2,404,821
88: 2,404,774
98— 42: 2,401,961
99— 328: 2,404,976
101— 88: 2,404,912
102— 3: 2,404,942
81.2: 2,405,023
85.6: 2,405,095
97: 2,405,104
103— 23: 2,405,006
42: 2,405,061
87: 2,404,783
149: 2,404,890
164: 2,404,983
204: 2,404,930
205: 2,404,835
236: 2,404,869
104— 151: 2,404,984
105— 377: 2,405,040
106— 8: 2,404,896
46: 2,405,011
110— 103: 2,404,937

110— 109: 2,404,848
115: 2,404,847
113— 99: 2,404,857
114— 20: 2,405,001
2,405,002
21: 2,404,908
117— 7: 2,404,952
76: 2,405,038
121— 41: 2,404,849
46.5: 2,404,796
120: 2,404,906
122— 7: 2,404,792
235: 2,404,826
123— 56: 2,405,016
73: 2,404,833
90: 2,404,827
2,404,828
119: 2,405,102
126— 350: 2,404,860
128— 304: 2,405,029
132— 40: 2,404,867
135— 44: 2,405,044
136— 4: 2,405,075
2,405,076
173: 2,405,034
137— 68: 2,404,795
69: 2,404,996
78: 2,405,010
153: 2,404,936
2,405,043
156: 2,404,801
138— 39: 2,404,995
146— 28: 2,404,990
177: 2,405,056
151— 7: 2,405,038
152— 252: 2,404,974
154— 1: 2,405,074
2.27: 2,405,057
28: 2,405,021
51: 2,404,994
128: 2,404,904
155— 94: 2,505,013
158— 28: 2,404,903
38: 2,404,853
160— 91: 2,404,807
164— 47: 2,404,901
121: 2,404,985
124: 2,404,793
166— 1: 2,404,825
11: 2,404,876
169— 40: 2,404,804
170— 159: 2,405,022
171— 95: 2,404,886
97: 2,405,071
118: 2,405,007
119: 2,405,049
322: 2,404,969

172— 36: 2,404,979
120: 2,405,012
179: 2,405,053
239: 2,404,868
2,404,894
2,405,017
2,405,045
2,405,046
2,405,066
245: 2,404,810
2,405,073
175— 183: 2,404,797
2,404,891
294: 2,404,955
2,405,079
2,405,080
2,405,081
2,405,082
2,405,083
2,405,084
315: 2,404,824
320: 2,404,945
2,404,982
176— 38: 2,404,992
122: 2,404,953
2,405,089
177— 352: 2,404,933
385: 2,404,806
386: 2,404,784
2,404,798
2,404,799
178— 6.7: 2,404,839
7.2: 2,404,939
34: 2,404,813
44: 2,404,832
69.6: 2,404,814
179— 2: 2,404,773
5: 2,404,842
122: 2,404,772
171: 2,404,809
181— 0.5: 2,404,785
2,404,786
31: 2,404,877
188— 71: 2,404,831
192— .01: 2,404,951
85: 2,404,822
131: 2,404,980
146: 2,404,850
197— 189: 2,404,861
198— 31: 2,404,863
34: 2,404,882
177: 2,404,885
213: 2,404,884
200— 5: 2,404,940
6: 2,405,005
48: 2,404,957

200— 67: 2,404,874
83: 2,404,843
89: 2,404,950
115: 2,404,999
139: 2,405,003
159: 2,405,035
202— 53: Re.22,775
204— 211: 2,404,948
314: 2,404,778
206— 41: 2,405,009
44: 2,404,776
56: 2,404,815
209— 72: 2,405,098
210— 16: 2,404,967
113: 2,404,872
212— 142: 2,404,898
214— 75: 2,405,054
83: 2,405,094
138: 2,404,926
141: 2,404,820
219— 2: 2,405,033
32: 2,404,841
38: 2,405,072
43: 2,405,103
47: 2,405,037
220— 4: 2,404,915
61: 2,404,777
222— 81: 2,404,879
223— 44: 2,404,941
89: 2,404,959
229— 35: 2,404,916
230— 29: 2,405,042
45: 2,404,997
127: 2,405,048
236: 2,405,100
234— 64: 2,404,975
241— 33: 2,405,059
197: 2,404,775
242— 39: 2,404,838
244— 17: 2,404,829
42: 2,404,895
2,404,956
63: 2,404,963
77: 2,405,015
250— 27: 2,404,918
2,404,919
2,405,095
37: 2,405,070
40: 2,404,852
71: 2,405,078
97: 2,404,905
105: 2,405,026
158: 2,404,899
165: 2,404,802
2,404,803
251— 113: 2,404,816

252— 32: 2,404,871
301.6: 2,405,031
353: 2,404,913
260— 2: 2,405,041
9: 2,404,910
17.5: 2,404,840
24: 2,404,892
42: 2,404,836
67: 2,404,929
78: 2,404,780
84: 2,404,779
2,404,781
2,404,817
88: 2,404,791
141: 2,404,893
223: 2,404,887
306: 2,404,771
607: 2,405,019
617: 2,404,787
657: 2,404,800
663: 2,404,927
668: 2,404,914
673.5: 2,404,902
683.15: 2,404,788
683.4: 2,404,897
2,404,934
683.5: 2,404,923
2,405,097
261— 112: 2,404,789
264— 12: 2,404,900
266— 4: 2,404,987
21: 2,404,944
267— 1: 2,405,062
272— 58: 2,405,024
277— 45: 2,404,924
279— 16: 2,404,866
280—11.37: 2,405,000
33.44: 2,404,925
124: 2,404,794
290— 4: 2,404,960
40: 2,404,968
41: 2,404,964
292— 181: 2,405,027
348: 2,404,845
293— 55: 2,404,931
294— 31: 2,404,991
83: 2,404,830
106: 2,405,018
296— 28: 2,404,870
308— 59: 2,404,921
309— 45: 2,404,862
312— 149: 2,404,851
315— 230: 2,405,096
335: 2,404,920
320— 1: 2,404,971
2,405,069

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,404,782: 29— 203
2,404,797: 175— 183
2,404,807: 180— 91
2,404,812: 40—127.1
2,404,835: 103— 205
2,404,848: 110— 109
2,404,862: 309— 45
2,404,868: 172— 239
2,404,871: 252— 32
2,404,899: 250— 158
2,404,900: 264— 12
2,404,905: 250— 97
2,404,906: 121— 120
2,404,917: 51— 139
2,404,920: 315— 335
2,404,927: 260— 663
2,404,947: 46— 70
2,404,948: 204— 211
2,404,951: 192— .01
2,404,952: 117— 7
2,404,964: 290— 41
2,404,970: 67— 31
2,404,984: 104— 151
2,405,020: 16— 87.8
2,405,057: 154— 2.27
2,405,091: 62— 143
2,405,096: 315— 230
2,405,098: 209— 72

Classification of Designs

D 3— 4: Des. 145,336
Des. 145,337
Des. 145,338
12: Des. 145,311
26: Des. 145,293
Des. 145,327
Des. 145,329
Des. 145,330
Des. 145,331
Des. 145,332
Des. 145,333

D 3—26: Des. 145,334
D 4— 3: Des. 145,291
D 5— 1: Des. 145,303
Des. 145,304
Des. 145,305
Des. 145,306
D10— 8: Des. 145,343
D17— 6: Des. 145,287
8: Des. 145,283
Des. 145,284
D33— 9: Des. 145,312

D34— 2: Des. 145,344
5: Des. 145,335
15: Des. 145,285
Des. 145,295
Des. 145,296
Des. 145,324
Des. 145,342
D42— 1: Des. 145,315
7: Des. 145,314
Des. 145,316
Des. 145,317

D42— 8: Des. 145,298
D44—10: Des. 145,280
Des. 145,281
D45— 4: Des. 145,292
Des. 145,318
9: Des. 145,321
Des. 145,326
10: Des. 145,299
19: Des. 145,301
Des. 145,302
Des. 145,319

D45—19: Des. 145,320
Des. 145,325
D48—20: Des. 145,340
23: Des. 145,323
27: Des. 145,328
D52— 1: Des. 145,345
D54—12: Des. 145,339
13: Des. 145,341
D57— 1: Des. 145,282
Des. 145,288
Des. 145,313

D60— 5: Des. 145,289
Des. 145,290
D66—10: Des. 145,286
D67— 3: Des. 145,294
D92— 1: Des. 145,300
26: Des. 145,297
Des. 145,307
Des. 145,308
Des. 145,309
Des. 145,310
Des. 145,322

U. S. GOVERNMENT PRINTING OFFICE: 1946

U.S. Patent Office. E.R.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 589

AUGUST

1946

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1946

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, August 6, 13, 20, 27	3, 163, 329, 493
TRADE-MARKS PUBLISHED AND REGISTERED, August 6, 13, 20, 27	17, 177, 343, 507
REISSUES, August 6, 13, 20, 27	43, 219, 381, 537
PLANT PATENTS, August 6, 13, 20, 27	—, —, 381, —
PATENTS, August 6, 13, 20, 27	44, 221, 382, 538
DESIGNS, August 6, 13, 20, 27	154, 316, 476, 638

ANNOUNCEMENTS

	Page
ACCORD ON GERMAN OWNED PATENTS	496
ADVERSE DECISIONS IN INTERFERENCE	1, 491
APPLICATIONS—Condition of pending	2, 162, 328, 492
BULLETIN OF DECISIONS ON TRADE-MARKS	501
DESIGN PATENT No. 113,244 EXTENDED—An Act—Private Law 724—79th Congress	1
DISCLAIMERS:	
Powers, Frank T	491
Rugeley, Edward W. et al	327
Sander, Frank V	327
Shelters, Frederick C	491
Wherry, Dale J	327
FOREIGN PATENTS RECEIVED IN THE SCIENTIFIC LIBRARY AS OF AUGUST 1, 1946	327
INTERFERENCE NOTICES—James T. Hiroto	6, 161
NEW TRADE-MARK LAW—An Act—Effective July 5, 1947	10
NOTICES:	
Mail addressed to United States Patent Office, Instructions in re	1, 174, 327, 491
Titles of Invention—Instruction to Examiners, In re	1
Copies of Patents—In re increased price to 25 cents per copy	1, 161
PATENT SUITS	6, 338
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	7, 175, 340, 498
SPECIFICATION NOT TO BE RETURNED TO APPLICANT—*Rule 72*	327
TRADE-MARK REGISTRATIONS CANCELED—Notice of Cancellation	6, 161, 339, 491

TABLE OF CASES REPORTED

	Page
* Beall *v.* Ormsby	329
* Brockway Glass Company, Inc., In re	163
* Burhans, In re	173
* Crawford, In re	336
* Faustmann, In re	493
* Fridolph *v.* Bechik	4
* Goldsby, In re	165
* Hansen, In re	167
* Lustig *v.* Legat	333
* Paesani, In re	172
* Thacker, In re	3
* Wood et al., In re	169

[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*).]

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 589—No. 1 TUESDAY, AUGUST 6, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
ISSUE OF AUGUST 6, 1946	1
DESIGN PATENT NO. 113,244 EXTENDED	1
ADVERSE DECISIONS IN INTERFERENCE	1
NOTICES	2
APPLICATIONS UNDER EXAMINATION	
DECISIONS OF THE U. S. COURTS—	
In re Thacker	3
Fridolph v. Bechik	4
NOTICES OF CANCELLATION	6
INTERFERENCE NOTICE	6
PATENT SUITS	6
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	7
NEW TRADE-MARK LAW	10
TRADE-MARKS PUBLISHED (144 APPLICATIONS)	17
TRADE-MARK REGISTRATIONS GRANTED	34
TRADE-MARK REGISTRATIONS RENEWED	38
REISSUES	43
PATENTS GRANTED	44
DESIGNS	154

August 6, 1946

Trade-Marks	117	No. 422,610 to No. 422,726, inclusive.
T. M. Renewals	89	
Reissues	1	No. 22,776
Patents	437	No. 2,405,107 to No. 2,405,543, inclusive.
Designs	28	No. 145,346 to No. 145,373, inclusive.
Total	672	

Design Patent No. 113,244 Extended

[PRIVATE LAW 724—79TH CONGRESS]

[CHAPTER 568—2D SESSION]

[H. R. 5258]

AN ACT

Granting a renewal of Patent Numbered 113,244 dated February 7, 1939, relating to the flag of the Church of God.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That a certain design patent issued by the United States Patent Office of date of February 7, 1939, being patent numbered 113,244, relating to the flag of the Church of God, is hereby renewed and extended for a period of fourteen years from and after the date of enactment of this act with all the rights and privileges pertaining to the same.

Approved July 11, 1946.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed.

Pat. 2,327,331, L. G. Pender, Shiftable rotary operative fastener, decided May 8, 1946, claims 1, 2, 3, 6, 7, 8, and 9.

Pat. 2,370,206, E. H. Taylor, Circuit breaker, decided July 9, 1946, claims 11 and 12.

Notices

TITLE OF INVENTION

U. S. PATENT OFFICE, *Washington 25, D. C., July 1, 1946.*

The title of the invention in each application should be as specific as possible. General titles do not serve to throw any helpful light on the nature of the invention.

Where the title is not specific to the invention claimed, the examiner should require the substitution of a new title that is clearly indicative of the invention to which the claims are directed. This may result in slightly longer titles, but the loss in brevity of title will be more than offset by the gain in its informative value in indexing, classifying, searching, etc. If a satisfactory title is not supplied by the applicant, the examiner may change the title by Examiner's Amendment on or after allowance.

CASPER W. OOMS,
Commissioner.

U. S. PATENT OFFICE, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notice

United States Patent Office, Washington 25, D. C.

Under the act signed July 5, 1946, the price of copies of patents is increased from ten cents to twenty-five cents. The price of copies of trade-marks and designs remains at ten cents.

J. A. BREARLEY,
Chief Clerk.

July 11, 1946.

Condition of Applications Under Examination at Close of Business July 19, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 119,003; Trade-Mark Division, 8,909. Oldest new case, February 9, 1945; oldest amended, February 20, 1945.)
(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Apr. 13	May 23	2028
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	May 5	May 14	2501
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 19	1851
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	June 27	July 30	2062
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 30	Mar. 22	3215
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 31	Aug. 17	1754
7. JARBOE, C. G., Optics, Photography	Sept. 12	Sept. 17	2069
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 29	July 9	2733
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 12	Apr. 11	1951
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillat on Generators, Wave Meters, Tuners); Modulators.	June 29	June 20	1401
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 10	Dec. 14	603
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 15	June 6	2171
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 27	1857
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 4	Aug. 28	1286
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	July 3	Aug. 6	1356
16. LOVEWELL, N. N., Telegraphy; Telephony	July 18	July 11	1229
17. HABECKER, LEON E., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 12	Feb. 20	1124
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 28	June 16	1663
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 7	Sept. 11	1413
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1589
21. THOMPSON, T. J., Textiles	Aug. 29	Oct. 24	755
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	June 27	June 29	1702
23. LEWIS, J. B., Cash Registers; Calculators (part)	May 28	June 6	260
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 20	Sept. 19	1090
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	June 9	June 12	1475
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 2	May 7	1850
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 4	Apr. 13	1906
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 8	May 3	1323
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	May 19	May 19	1961
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	May 21	June 20	2100
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Dec. 29	Dec. 27	964
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 6	Aug. 21	1680
33. ROE, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	May 29	June 1	2418
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	July 20	1111
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Aug. 2	Aug. 3	1654
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 10	May 30	1351
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 28	May 3	1393
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	July 9	July 3	1232
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 13	Apr. 18	2166
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 25	Aug. 28	2176
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Apr. 10	Apr. 11	811
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Sept. 14	Aug. 27	949
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 10	May 23	1336
44. HARVEY, L. P., Refrigeration; Preserving	Mar. 27	May 2	1097
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	June 28	June 21	2148
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	July 7	July 28	1258
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Sept. 10	Sept. 4	2294
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 22	Mar. 23	1827
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 28	July 30	1412
50. LEVIN, SAMUEL, Synthetic Resins	July 21	July 26	2245
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	May 1	May 11	2148
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 9	June 6	2822
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	Apr. 19	2783
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	May 7	May 4	1998
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 7	July 13	1554
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	May 22	May 26	1548
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 9	Mar. 8	2490
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Aug. 20	Nov. 1	1103
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	Apr. 14	Apr. 29	2040
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 27	July 2	1854
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 26	June 4	2277
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 9	Mar. 23	3078
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 26	Apr. 27	2023
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 11	Dec. 12	1185
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 5	May 10	2266
Trade-Marks: RICHMOND, F. A.	Dec. 1	†Mar. 19	8909
Designs: KALUPY, H. H.	Nov. 1	†Feb. 4	6014

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE THACKER

No. 5,115. Decided March 6, 1946

[154 F.(2d) 156; 69 USPQ 126]

1. APPLICATION—DISCLOSURE—INHERENCY.

Where it was not disputed that the process claimed by appellant invariably results in the production of carbon disulfide, and it was admitted that appellant's "earlier application discloses each of the steps recited in the involved claims," *Held* that "carbon disulfide necessarily results from the process of the earlier application," and *Held* that "the fact that carbon disulfide is not specifically mentioned in the earlier case cannot call into question the necessary inherency of its production there."

2. SAME—SAME.

Held that "carbon disulfide may be properly included within the particular disclosure made in appellant's earlier application" of organic sulfur compounds.

3. WORDS AND PHRASES—"ORGANIC CHEMISTRY."

"We have arrived at the conclusion that organic chemistry is properly defined in Funk & Wagnalls New Standard Dictionary, 1938 edition, as the branch of chemistry 'devoted to the investigation of carbon and its compounds.'"

4. PATENTABILITY—CARBON-SULFUR COMPOUNDS.

Claims to a method of preparing carbon-sulfur compounds *Held* patentable, the single reference cited being antedated by appellant's earlier application, and that application supporting the claims.

APPEAL from the Patent Office. Reversed.

BLAND, *J.*, dissenting.

Mr. Edward H. Lang for Thacker.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting all of the claims of an application for a patent on "Method of Converting Hydrocarbons into Organic Sulfur Compounds" as unpatentable over the patent to de Simó, 2,187,393, January 16, 1940.

The involved claims read as follows:

4. Method in accordance with claim 26 in which the catalyst is iron sulfide.
5. Method in accordance with claim 26 in which the catalyst is cobalt sulfide.
6. Method in accordance with claim 26 in which the catalyst is nickel sulfide.
9. Method in accordance with claim 26 in which the catalyst is a sulfide selected from the group consisting of vanadium, manganese, copper, iron, cobalt, nickel, chromium and molybdenum sulfides.
26. The method of preparing carbon-sulfur compounds which comprises contacting paraffinic hydrocarbon gases with sufficient sulfur vapors to stoichiometrically react with the gases to form mercaptans at a temperature of at least 400° C., at which the sulfur and hydrocarbon gases chemically react, in the presence of a catalyst selected from the group of preformed metal sulfides.
27. Method in accordance with claim 26 in which the temperature is between approximately 400° and 700° C.
28. Method in accordance with claim 26 in which the catalyst is supported on a carrier selected from the group of silica gel, alumina gel, pumice and charcoal.

The application, Serial No. 326,963, was filed March 30, 1940, as a continuation in part of a copending application of appellant, Serial No. 177,411, filed December 1, 1937, upon which Patent No. 2,309,718, was granted February 2, 1943.

The invention relates to a method of producing organic sulfur compounds, especially carbon-sulfur compounds, by converting hydrocarbons, "particularly low boiling paraffinic hydrocarbons." The process is sufficiently set forth in the claims.

The de Simó patent relates to a process for the production of carbon disulfide from organic compounds and sulfur in a catalytic process.

The Examiner in his decision analyzed claim 26 herein and the corresponding disclosure of the de Simó patent. It clearly appears from such analysis that the claim is anticipated by the reference in all respects. The Examiner rejected all of the other claims as being met by the same reference.

Appellant concedes that the claims are anticipated by the reference, but presents here, as he did below, his contention that the de Simó patent is antedated by his application Serial No. 177,411, above mentioned. The tribunals of the Patent Office rejected this contention on the ground that the claims here could not have been made in the earlier application for the reason that there was not a disclosure therefor in that application.

The controlling issue before us is whether or not appellant's earlier application supports the claims on appeal. It relates to "a method for converting paraffinic hydrocarbon gases to organic sulfur compounds; to a method for preparing high boiling hydrocarbons from organic sulfur compounds; and to the method of converting low boiling hydrocarbons, particularly low boiling paraffinic hydrocarbons by means of sulfur oxidation into higher boiling hydrocarbons."

In carrying out the process of that invention appellant states that the starting substance may be low boiling sulfur compounds from refinery gases or "methane, ethane, propane or butane, or mixtures thereof." It appears that if the starting material be hydrocarbon gas it is subjected to heat and mixed with sulfur vapors, and then in a reactor the mixture is contacted with a catalyst to convert the hydrocarbons to sulfur compounds, and that for the catalyst "oxides or sulfides of vanadium, manganese, copper, iron, cobalt, nickel, chromium, molybdenum" may be used. The reactor, it is stated, is preferably maintained at a temperature of approximately 400° to 700° C. Appellant contends that such disclosure is sufficient to include the method defined by the involved claims. In that application there were three claims for a method of converting paraffinic hydrocarbon gases to organic sulfur compounds. They read as follows:

1. The method of converting paraffinic hydrocarbon gases into organic sulfur compounds which comprises contacting the gases mixed with sulfur vapors at reaction temperature with an oxidation catalyst.
2. Method in accordance with claim 1 in which the reaction temperature is between approximately 400° and 700° C.

3. Method in accordance with claim 1 in which the catalyst is a sulfide selected from the group consisting of vanadium, manganese, copper, iron, cobalt, nickel, and chromium and molybdenum sulfides.

The Examiner required division between those claims and the remaining claims which appear in appellant's patent and which are directed to converting alkyl sulfur compounds into higher boiling hydrocarbons, or to a conversion of paraffinic gases or low boiling hydrocarbons into higher boiling hydrocarbons. The present application includes the divided-out subject matter.

It was not questioned below, and is admitted in the brief of the Solicitor, that application Serial No. 117,411 discloses each of the steps recited in the appealed claims. The only reason for rejection was that in appellant's prior case carbon disulfide is not specifically mentioned. Appellant concedes that to be true, but contends that because each of the steps recited in the involved claims is disclosed in the earlier case the production of carbon disulfide is necessarily inherent in his process.

As factual proof of such inherency, two affidavits are of record, one by appellant, a skilled research chemist, and one by another skilled research chemist who worked under the direction of appellant. These affidavits show many tests of appellant's process and state unequivocally that their tests produced carbon disulfide as the chief liquid product of the reaction. The Examiner held the affidavits to be irrelevant for the stated reason that "support for claims must be determined from the written disclosure of the application," and stated that it was highly significant that no reference to the production of carbon disulfide was contained in appellant's earlier case.

[1] There can be no doubt that appellant's process invariably results in the production of carbon disulfide, since the process of de Simó produces that substance. That is not disputed. Since it is admitted that the earlier application discloses each of the steps recited in the involved claims, carbon disulfide necessarily results from the process of the earlier application. Because that is so, the fact that carbon disulfide is not specifically mentioned in the earlier case cannot call into question the necessary inherency of its production there. *Honsgirg* v. *Kemmer*, 26 C. C. P. A. (Patents) 937, 102 F.(2d) 212, 40 USPQ 665, 505 O. G. 514. The general principle of inherency therein set forth was followed by us in the case of *In re Salomon*, 30 C. C. P. A. (Patents) 1189, 136 F.(2d) 728, 58 USPQ 399, 556 O. G. 527, and cases therein cited.

[2] [3] While in neither of the opinions below is carbon disulfide held to be without the scope of organic sulfur compounds, it is suggested in the brief of the Solicitor that that broad term does not include carbon disulfide, and therefore that substance should not be considered as being disclosed in the earlier application. To that effect there are cited several chemical publications, and definitions from the Encyclopaedia Britannica, 11th edition, and Webster's New International Dictionary, both under "Chemistry." Appellant in his reply brief arrives at different conclusions from the Solicitor with respect to those citations. Several chemical publications are cited by counsel for appellant in his brief to sustain his view that carbon disulfide is one of the organic compounds. From an examination of the authorities cited by both parties and other publications examined by us we have arrived at the conclusion that organic chemistry is properly defined in Funk & Wagnalls New Standard Dictionary, 1938 edition, as the branch of chemistry "devoted to the investigation of carbon and its compounds," as well as in Webster's New International Dictionary, 1940 edition, as follows:

Organic Chemistry, then, is the chemistry of the hydrocarbons and their derivatives (or, which is almost the same, the chemistry of carbon compounds), whether found in organisms or not, while inorganic chemistry treats of all other compounds and of the elements. Such compounds as the oxides of carbon, the carbides, and the cyanides are assigned sometimes to one, sometimes the other.

These dictionary definitions agree substantially with the one found in Hackh's Chemical Dictionary, 1929, i. e., "That branch of chemistry dealing with carbon compounds or the non-polar compounds." Therefore we are of opinion that carbon disulfide may be properly included within the particular disclosure made in appellant"s earlier application, and for that reason are convinced that the present claims could properly have been made therein.

Since all of the other contentions are subordinate, we do not deem it necessary to discuss them.

[4] For the reasons hereinbefore stated, the decision of the Board of Appeals is reversed.

Reversed.

BLAND, *J.*, dissents.

U. S. Court of Customs and Patent Appeals

FRIDOLPH v. BECHIK

No. 5,119. Decided March 6, 1946

[154 F.(2d) 198; 69 USPQ 128]

1. INTERFERENCE—ACTUAL REDUCTION TO PRACTICE—TESTS—CORROBORATION.
   Actual reduction to practice by appellant of mattress handle assemblies *Held* not established in view of "the lack of proof by the corroborating witness for appellant that the assemblies were actually used in the operation for which they were designed."
2. SAME—SAME—DILIGENCE—FOREIGN ACTS.
   Held that commercial production by appellant in England could not be considered as proof of reduction to practice or of diligence.
3. SAME—PRIORITY.
   Record reviewed and priority *Held* properly awarded to appellee.

APPEAL from the Patent Office. Affirmed.

Messrs. Barnes, Kisselle, Laughlin & Raisch (*Mr. John M. Kisselle* and *Mr. Robert A. Choate* of counsel) for Fridolph.

Messrs. Merchant & Merchant (*Mr. Ralph F. Merchant* of counsel) for Bechik.

JACKSON, *J.*:

This appeal in an interference proceeding involves an application of appellant, Serial No. 317,797, filed February 8, 1940, and a patent to appellee, 2,248,328, dated July 8, 1941, upon an application filed May 19, 1939.

The Board of Interference Examiners of the United States Patent Office awarded priority of invention of the subject matter of six counts to appellee, in whose patent they originated. Count 2 is illustrative of the subject matter and reads as follows:

2. A handle for mattress walls comprising, a relatively stiff normally flat flexible reinforcing means overlying the inner surface of the mattress wall, a pair of spaced grommets extending through the mattress wall and said reinforcing means, a flexible handle overlying the outer surface of the mattress wall between said spaced grommets, and means on the ends of said handle detachably anchoring said handle within the mattress wall, said reinforcing bar flexing to permit attachment of said handle.

The invention relates to handle assemblies, adapted to be used in mattresses, comprising a resilient back plate on the inside surface of the side of the mattress secured thereto by means of grommets. A handle of cord or other flexible material is provided with detachable anchoring means on the ends thereof designed to pass through the grommets, capable of being secured to the mattress after its assembly has been otherwise completed. The handle means is held taut against the surface of the mattress by the resilience of the back plate.

Both parties took testimony and many exhibits were introduced.

It was contended by appellant before the Board that two assemblies, known as Exhibits 1 and 5, were made, applied to mattresses, and shown to the Simmons Company, a manufacturer of mattresses, in 1937. Exhibit 1 meets all the limitations of the counts, and differs from Exhibit 5 in that the back plate is resilient steel while that of Exhibit 5 is brass. The time fixed for the making of those exhibits was supported by display books made in that year. The Board held the evidence on the part of appellant sufficient to establish the existence of those exhibits or articles identical therewith in 1937. and awarded conception as of that date, but held appellant had not established actual reduction to practice prior to February 8, 1940, her filing date, by reason of inadequate corroborating testimony, and therefore that she should be held to that date for a constructive reduction to practice.

Appellee showed that he had conceived the invention and made assemblies corresponding to the limitations of the counts in 1938. Here also the Board held there had not been sufficient proof of actual reduction to practice, and he was restricted to his filing date, May 19, 1939, for constructive reduction to practice.

Appellant testified that her assemblies were tested by pulling, by turning the mattress over, and by carrying it. However, her only corroborating witness with respect to tests did not say that any mattress was actually ever lifted or turned over by using assemblies such as Exhibits 1 and 5.

Exhibits such as these, while displayed to the Simmons Company, were never adopted by it, and were said to be unsatisfactory by appellant's corroborating witness in that the flat fabric portion of the handle on the outside of the mattress wrinkled. This would seem to indicate that the back bar was not resilient or the fabric would be pulled taut. It is obvious that if it were so pulled no wrinkles would appear.

[1] While the device itself is simple, and no extensive tests would be necessary in order to show actual reduction to practice, we think, as did the Board, that the lack of proof by the corroborating witness for appellant that the assemblies were actually used in the operation for which they were designed is fatal to appellant's case.

[2] It appears in the record that appellant was producing handles such as Exhibits 1 and 5 commercially in England in 1938. This cannot be considered as proof of reduction to practice or of diligence, and is so conceded by appellant. No showing of diligence appears on the part of appellant in reducing her invention to practice in this country between at or shortly before the time appellee entered the field and the date of filing her application.

During the direct examination of appellee, a certified copy of the file wrapper and contents of a British Patent No. 526,411, granted December 12, 1940, to appellant, relating to mattress handle assemblies, was introduced in evidence as one of appellee's exhibits to show that there was no disclosure of a "flexible or resilient back bar" as required by the counts. It appears from that exhibit that the provisional specification was filed February 8, 1939. The Board in its decision made no reference thereto, and appellant in her reasons of appeal alleges error in the failure of the Board to credit her with the filing date of that specification.

There is nothing in the record to indicate that appellant at any time relied upon her British specification. We think that, if she believed she was entitled to the date thereof, a motion to shift the burden of proof would have been made, or at least that the provisional specification would have been introduced in evidence by her or notice of her reliance thereon given to appellee under the provisions of rule 154 (*e*), none of which was done.

We cannot tell from the record whether or not appellant contended below that she was entitled to her British date. It is not so argued in the brief. Even if she did so contend an examination of the provisional specification convinces us that she had no idea of a back bar in her mattress handle assembly at the time that specification was filed except one that was "rigid." Clearly that specification does not even hint, much less disclose, that limitation of the counts. Therefore, we are of opinion that there was no error in the omission of the Board to discuss that contention, if it had been made before it.

[3] It is not necessary to discuss appellee's proofs since his filing date is prior to that of appellant.

The decision of the Board of Interference Examiners is affirmed.

Affirmed.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 28, 1946.*

The Knorr-Schlaudt Notion Co., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Gallenkamp Stores Co., 422 Second St., San Francisco, Calif., to effect the cancellation of trade-mark registration of The Knorr-Schlaudt Notion Co., Hutchinson, Kans., No. 108,649, dated February 22, 1916, renewed by The Knorr-Schlaudt Wholesale Company, Inc. The Office having been unable to obtain service upon the respondent, notice is hereby given that unless The Knorr-Schlaudt Wholesale Company, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 8, 1946.*

The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Reid, Murdoch & Co., 325 N. La Salle St., Chicago, Ill., to effect the cancellation of trade-mark registration of The Mon-Ark Medicine Corporation, Inc., 421 Eberon Ave., Cincinnati, Ohio, No. 273,229, dated July 22, 1930, and the notice of such proceeding sent by registered mail to the said The Mon-Ark Medicine Corporation, Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Mon-Ark Medicine Corporation, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 19, 1946.*

Horace Kay, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Robert Barr, 438 Diversey Parkway, Chicago, Ill., to effect the cancellation of trade-mark registration of Horace Kay, 134 W. 90th Street, New York, N. Y., No. 327,275, dated August 20, 1935, and the notice of such proceeding sent by registered mail to the said Kay at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., July 15, 1946.*

James T. Hiroto, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Salinas Valley Vegetable Exchange, P. O. Box 247, Salinas, Calif., for registration of a trade-mark and trade-mark registered February 17, 1942, No. 393,497, to James T. Hiroto, P. O. Box 103, Coachella, Calif., and the Office having been unable to procure service of the notice of such declaration upon said Hiroto, notice is hereby given that unless said Hiroto, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,710,035, R. E. Thompson, Sound reproducing instrument, D. C., E. D. Mich., S. Div., Doc. 2427, *Haseltine Corp.* v. *General Motors Corp.* Order of dismissal (notice May 20, 1946).

1,754,895, 1,985,098, J. E. Kennedy, Gyratory crusher, D. C., S. D. N. Y., Doc. 30/589, *Kennedy-Van Saun Mfg. & Engineering Corp.* v. *Allis-Chalmers Mfg. Co.* Order dismissing action as to infringement of 1,985,098, Jan. 3, 1946. Order discontinuing action May 28, 1946.

1,758,315, 1,793,690, F. Girardi, Gear change mechanism for automotive vehicles; 1,992,419, same, Speed change gear set operating mechanism; 2,231,740, J. J. Wharam, Transmission shifting device; 2,202,950, 2,202,949, Girardi & Cipulla, Gear shift mechanism, filed Aug. 27, 1945, D. C., N. D. Ill., E. Div., Doc. 45c1426, *S. Cipulla et al.* v. *Ford Motor Co. et al.*

1,793,690. (See 1,758,315.)

1,801,193, J. M. Darst, Bag closure; 2,107,216, H. L. Rogers, Receptacle and closure therefor, filed May 31, 1946, D. C., E. D. N. Y., Doc 7024, *Remco Mfg. Co.* v. *Rogers Imports, Inc.*

1,926,727, G. L. Knox, Six wheel attachment for motor vehicles, filed May 11, 1946, D. C. Oreg. (Portland), Doc. 3143, *Six Wheel Corp.* v. *Pointer-Willamette Co.*

1,974,589, L. K. Snell, Brake; 2,167,607, H. W. Alden, Brake mechanism, D. C., W. D. Wis. (Madison), Doc. 1407, *Timkin-Detroit Axle Co. et al.* v. *Highway Trailer Co.* Consent decree holding patents valid and infringed, suit discontinued June 3, 1946.

1,985,098. (See 1,754,895.) 1,992,419. (See 1,758,315.)

2,002,394, F. E. Frey, Process for converting hydrocarbons, filed June 7, 1946, D. C., S. D. Tex. (Houston), Doc. 2219, *Phillips Petroleum Co.* v. *Humble Oil & Refining Co.* Same, D. C. Tex. (Beaumont), Doc. 1076, *Phillips Petroleum Co.* v. *The Texas Co.*

2,069,265, S. Musher, Stabilized fats and oils; 2,199,364, 2,221,404, same, Treatment of glyceride oils, D. C., S. D. N. Y., Doc. 18/481, *Musher Foundation, Inc.*, v. *Galvanoni & Nevy Bros., Inc.* Consent decree holding infringement of 2,221,404, May 28, 1946, stipulation discontinuing action as to 2,069,265 and 2,199,364, June 6, 1946.

2,090,874, H. C. Myers, Trailer, filed Apr. 22, 1946, D. C. Oreg. (Portland), Doc. 3126, *H. C. Myers* v. *I. Jorgensen.*

2,107,216. (See 1,801,193.)

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, D. C. N. J., Doc. 1438, *Ostby & Barton Co. et al.* v. *T. G. Jungersen.* Claims 1–4 inclusive held valid, claims 5 and 6 held invalid, injunction granted May 22, 1946.

2,131,251, T. A. Ferri, Window structure, filed June 6, 1946, D. C., S. D. Fla. (Miami), Doc. 1620–M, *Construction Products Co.* v. *Gate City Sash & Door Co.*

2,167,607. (See 1,974,589.) 2,199,364. (See 2,069,265.)

2,202,949. (See 1,758,315.) 2,202,950. (See 1,758,315.)

2,214,824, Smith & Schultz, Ironing pad, filed June 6, 1946, D. C., E. D. Wis. (Milwaukee), Doc. 3836, *The Sunlite Mfg. Co.* v. *Clarvan Corp.*

2,221,404. (See 2,069,265.)

2,227,730, J. Lynes, Inflated packer treating tools for wells, 2,399,125, P. J. Lehnhard, Jr., Well packer, filed May 23, 1946, D. C., S. D. Tex. (Houston), Doc. 2192, *Lynes, Inc., et al.* v. *The Dow Chemical Co.*

2,231,740. (See 1,758,315.)

2,239,410, H. Bonat, Method and means for producing heat by exothermic reaction, D. C., S. D. N. Y., Doc. 23/99, *Bonat & Bonat, Inc.*, v. *Talmalin Mfg. Co.*

2,317,064, W. Josephian, Tank truck, D. C., N. D. Calif., S. Div., Doc. 25286–G, *W. Josephian* v. *Stuart Oxygen Co., Ltd.* Judgment entered for plaintiff, patent held infringed May 23, 1946.

2,339,093, C. E. Metheny, Snap clamp; 2,340,711, G. A. Tinnerman, same, D. C., S. D. W. Va. (Huntington) 285, *Tinnerman Products, Inc.*, v. *Adel Precision Products Co.* Dismissed without prejudice (notice June 7, 1946).

2,340,711. (See 2,339,093.)

2,390,941, 2,394,916, 2,396,513, F. D. Jones, Method and compositions for killing weeds, suit for declaratory judgment filed May 29, 1946, D. C., E. D. Pa., Doc. 5981, *Berwyn Chemical Co., Inc., et al.* v. *American Chemical Paint Co.*

2,394,916. (See 2,390,941.) 2,396,513. (See 2,390,941.)

2,399,125. (See 2,227,730.)

Re. 19,744, H. A. Wheeler, Volume control, D. C., E. D. Mich., S. Div., Doc. 2429, *Haseltine Corp.* v. *General Motors Corp.* Stipulation and order of dismissal with prejudice (notice May 20, 1946).

Re. 20,514, J. S. Tripp, Reflector, filed Nov. 13, 1944, D. C., S. D. N. Y., Doc. 28/372, *E. F. Chambless et al.* v. *H. C. Shamroth et al.*

Re 21,960, C. R. Stough, Vehicle wheel, filed June 3, 1946, D. C., E. D. Mich., S. Div., Doc. 6771, *Electric Wheel Co.* v. *Motor Wheel Corp.*

Des. 138,199, B. Kotzin, Face powder compact, D. C., S. D. Calif., C. Div., Doc. 4935–BH, *Bel-Air Creations et al.* v. *Transparent Shade Co.* Consent judgment holding patent valid and infringed, injunction May 21, 1946.

Des. 139,366, W. J. Ayers, Coin bank, filed June 3, 1946, D. C., N. D. Ill., E. Div., Doc. 46c1066, *W. J. Ayers* v. *F. Ortendahl et al.*

Des. 139,742, W. J. Crump, Angle drill attachment, filed May 28, 1946, D. C., S. D. Calif. (Los Angeles), Doc. 5422BH, *Aircraft Tools, Inc.*, v. *Zephyr Mfg. Co. et al.*

Des. 144,015, A. Walter, Embroidered fabric, filed June 6, 1946, D. C., S. D. N. Y., Doc. 36/275, *Anton Walter & Co.* v. *Lurumac Novelty Fabrics, Inc., et al.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,239,611. FOLDING LUNCH BOX. Patented Apr. 22, 1941. Made of stamped sheet metal or aluminum. When not in use, top fits over inwardly folded sides to make a flat, solid body small enough to be carried in coat pocket. Models and pictures available from owner. (Co-owner) Marcel Larin, 21 Jogues St., Sorel, Quebec, Canada. Groups 26—62; 33—73. Reg. No. 3,264.

Pat. 2,175,487. TOOTH BRUSH. Patented Oct. 10, 1939. Brush is made of fibreboard and may be discarded after use. The head is divided into a number of narrow slits that separate when flexed or when immersed in water, the "bristles" being coated with a dentifrice. Handle and remaining portion of head are moisture-proofed. The article lends itself to mass production and group assembly in compact packages. (Owner) Augustus G. Stall, 609 21st St., Oakland, Calif. Group 39—22. Reg. No. 3,265.

Pat. 2,356,975. PIPE. Patented Aug. 29, 1944. Comprises a bowl and a stem or barrel extending completely through the bowl, but connected at one side with the tobacco smoking chamber so that the barrel can easily be cleaned without removing it from the bowl. Smoke drawn from the tobacco chamber of the bowl is passed into an elongated chamber in the stem or barrel and then is drawn from this barrel at a point to the front of the connection with the tobacco chamber and then rearwardly to the mouth piece. (Owner) Gedeon R. Comptois, 215 West 23rd St., New York, N. Y. Groups 25—99; 39—96. Reg. No. 3,266.

Pat. 2,252,923. VALVE. Patented Aug. 19, 1941. Cup-shaped angle valve in which there is little or no wear on the sealing elements. As stem is turned, valve head passes through a flat annulus and resilient rubber gasket or ring. Flange on valve head forces annulus downward which compresses and expands gasket against sides of valve and around head to effect tight seal. Head does not rotate with stem, being swivelly connected thereto. (Owner) Frank A. Granetz, 23 Oakland Ave., Huntington, N. Y. Group 33—61—66. Reg. No. 3,267.

Pat. 2,352,224. ELECTICAL CONNECTOR. Patented June 27, 1944. For connecting a wire to a live wire or power line without breaking or interrupting line. Two identical insulated members have a pair of grooves in their opposed faces to form two channels when clamped together. Conductors bridging the space between the channels have sharp ends protruding into the channels so that they bite through the insulation of wires placed in the channels when the members are clamped together. (Owner) F. O. Read, 412 West Gray Ave., Houston, Tex. Group 36—11. Reg. No. 3,268.

Pat. 2,338,199. DEFLECTOR. Patented Jan. 4, 1944. Small deflector of transparent material has angular and rearwardly sloping sides. Straddling the hinge of an automobile hood it prevents snow, insects, etc., from hitting windshield of vehicle in motion. Hood may be raised without disturbing deflector. May be used on motorboats, aircraft, etc. (Owner) Wm. M. Parke, P. O. Box 146, Brook, Ind. Groups 38—31; 39—81. Reg. No. 3,269.

Pat. 1,956,765. APPARATUS FOR PRODUCING HIGH VACUUM. Patented May 1, 1934. Metallic bellows, operating within a partially evacuated cabinet, works a pair of magnetic valves to effect the removal of gas from glass or metal during manufacture. The bellows and glass, etc., are heated or electrically bombarded to assist liberation of the gases. When compressed the corrugations of the bellows fit snugly to effect evacuation. Inventor claims device produces a greater vacuum than that produced by centrifugal or mercury pump. (Owner) Bonnie G. Jones, Route 3, Williamsburg, Ky. Group 35—61. Reg. No. 3,270.

Pat. 2,391,548. TOBACCO PIPE. Patented Dec. 25, 1945. Provides a dry smoke and an adjustable draw. Pipe has flavored replaceable thimble connecting barrel with bowl. Stem has slotted end which firmly engages adjustable fitting which regulates draw of pipe and prevents liquids from entering stem. (Owner) Gedeon R. Comptois, 215 West 23rd St., New York, N. Y. Groups 25—99; 39—96. Reg. No. 3,271.

Des. 135,149. DESIGN FOR A TOBACCO PIPE. Patented Mar. 2, 1943. (Owner) Gedeon R. Comptois, 215 West 23rd St., New York, N. Y. Groups 25—99; 39—96. Reg. No. 3,272.

Des. 135,573. DESIGN FOR A TOBACCO PIPE. Patented Apr. 27, 1943. (Owner) Gedeon R. Comptois, 215 West 23rd St., New York, N. Y. Groups 25—99; 39—96. Reg. No. 3,273.

Pat. 2,233,536. EXTENSION ARM ATTACHMENT FOR JACKS. Patented Mar. 4, 1941. Simplified lateral extension arm assembly is easily attached to existing types

of jacks without special tools so that head of jack plunger engages spring or bumper and arm engages axle to simultaneously lift both the axle and chassis. End or arm is pivotally attached and may be adjusted up or down by means of a chain. (Owner) Burton J. Kelley, 212 Greenwood Ave., Punxsutawney, Pa. Groups 33—52; 38—31. Reg. No. 3,274.

Pat. 2,333,711. OIL LEVEL GAUGE. Patented Nov. 9, 1943. Hollow glass lined tube has a spring pressed valve at its top end which is automatically opened when gauge is inserted into crank case to provide a vent to permit oil to enter small opening in bottom of tube until it reaches engine level. The vent is automatically closed when gauge is withdrawn and oil level may be viewed through window in shield. (Owner) John F. Dwiggins, 1055 Piedmont Ave., Atlanta, Ga. Group 38—31. Reg. No. 3,275.

Pat. 2,395,637. COMBINATION LADDER. Patented Feb. 26, 1946. May be used as an extension ladder or quickly converted into a step-ladder. Comprises two sections pivotally connected together. The top section forming an extension has a shelf pivoted thereto. Shelf has hooks for engaging eyelets on one of the rungs of the bottom section when converted into a step-ladder. When not in use the two sections may be folded together. (Owner) Thomas C. McCoy, 1402 Waverly, San Antonio 1, Tex. Group 25—99. Reg. No. 3,276.

Pat. 2,395,613. SALT AND PEPPER SHAKER. Patented Feb. 26, 1946. The selection of either salt or pepper to be dispensed is controlled by manipulation of two plungers in the sides of the cover, pressure on the plungers pivots closures inwardly to uncover perforations in slanting side walls which divide the cover into two vertical chambers registering with two chambers in container. Cover is elongated and slides across top of container. (Owner) Oscar H. Crowell, Russellville, Ala. Group 33—73. Reg. No. 3,277.

Pat. 2,341,106. POST PULLER AND THE LIKE. Patented Feb. 8, 1944. For pulling posts out of ground or hoisting heavy objects. Jack has a base with four legs converged at top and secured to a vertical bar having pocketed teeth on one side and a vertical slide bar on the other side. Handle carrying two pawls has forked arms straddling bar and pivoted to slide and bar. As handle is manipulated, slide is forced upwardly as pawls engage the teeth in the vertical stationary bar. Slide may have a chain for encircling post or other suitable means. (Owner) Frank Kuzela, Route 2, Box 18, Tabor, S. Dak. Group 33—52. Reg. No. 3,278.

Pat. 2,395,756. SHIP LIGHT. Patented Feb. 26, 1946. Ship's lamp in which the lens is securely retained without being subject to stress and strain. Lamp has few parts, each of which may be replaced. Consists of a double base, tubular lens and dome-like double cover, the whole being held together by a "cage" formed of a number of rods having threaded end portions which receive nuts above and below flanges on the base and cover. A gasket is placed between the two sections forming base and cover. (Owner) George C. Parsons, 327 West Seventh St., San Pedro, Calif. Group 34—81—82. Reg. No. 3,279.

Pat. 2,275,588. FRUIT COOLING APPARATUS. Patented Mar. 10, 1942. A series of belt conveyors arranged side by side and moving in opposite directions, have downwardly inclined chutes which connect discharge end of one conveyor to the feed end of the next conveyor. An air circulating system directs current of cool air over each conveyor to cool boxed fruit before shipment. Conveyors are positioned in tunnels communicating with each other to form a circuitous or zig-zag conduit. (Owner) Emmett H. Greene, 754 Bryce Road, El Monte, Calif. Group 35—84. Reg. No. 3,280.

Pat. 2,212,314. WATER RESISTANT AMYLACEOUS COMPOSITIONS. Patented Aug. 20, 1940. Prepared by the reaction between an amylaceous substance, formaldehyde and an acid, the composition forms a clear waterproof and water resistant film which dries without the application of heat. The composition is insoluble in most organic solvents such as acetone and chloroform and may be used to impregnate the surface of wood, paper, fabric, and other materials. Examples given in patent. Group 28—31. Reg. No. 3,281.

Pat. 2,398,246. HAIR PROTECTING BATHING CAP. Patented Apr. 9, 1946. A hair protector worn under at bathing cap consists of a head encircling portion of absorbent material. A band attached thereto is drawn tightly around head and tied to prevent seepage of water into cap. (Owner) Mary Rasmussen, 1119 21st St., Sioux City 19, Iowa. Group 30—51. Reg. No. 3,282.

Pat. 2,392,567. OUTBOARD MOTOR, CONVERTIBLE FOR BOATS OR BICYCLES. Patented Jan. 8, 1946. Outboard motor of any well known type is provided with attachments so that it may be quickly mounted on either a boat or bicycle. Some of the attachments remain permanently on bicycle. When used with a bicycle the motor is mounted on handlebars. A roller on drive shaft frictionally engages the side of the tire on the front wheel. A presser roller engages opposite side. To expose roller, portion of housing is hinged and shaft provided with a coupling associated with roller so that lower part of housing, shaft and propeller may be swung to one side. If desired, metal bands may be welded to rim of wheel for engagement with rollers to prevent wear on tire. (Owner) Max Ashpes, 1426 East 3rd St., Brooklyn, N. Y. Group 37—32. Reg. No. 3,283.

Pat. 2,398,255. RAZOR BLADE SHARPENER. Patented Apr. 9, 1946. Sharpener consists of a small rectangular piece of lead held by a strap of metal bent to form an open loop handle and fixed by rivets. Razor blade is held edgewise against free end of the lead body and stroked lightly, the performance, according to the inventor, resulting in effective sharpening of the blade. (Owners) Richard I. and Henry C. Schauble. Address correspondence to Henry C. Schauble, 425 Lee Bldg., Kansas City, Mo. Group 32—91. Reg. No. 3,284.

Pat. 2,367,247. COMBINED FEED MECHANISM AND WEIGHING DEVICE. Patented Jan. 16, 1945. Combined weighing and grinding device has a scale dial associated with a weighing mechanism which causes the electric motor to be stopped when a predetermined weight is reached and the grinding device to discharge only exact amount of coffee, grain or other material being ground. (Owners) Wenceslao P. Valorino and Jose A. Monendoz. Address correspondence to Michael S. Striker, 500 Fifth Ave., New York 18, N. Y. Group 35—51. Reg. No. 3,285.

Pat. 1,801,017. POWER-DRIVEN HOE. Patented Apr. 14, 1931. Hoe has a clutch and a rotatable shaft with a hollow cylindrical head in which a crescent shaped stud slides in a cam slot (shaped like the figure 8) so that a reciprocating motion is imparted to the hoe. (Owner) Joseph Major, P. O. Box 1241, Paterson, N. J. Groups 33—52; 35—22. Reg. No. 3,286.

Pat. 2,395,047. VARIABLE TORQUE DRIVE. Patented Feb. 19, 1946. A uniform tension is maintained during the reeling of cloth, wire, paper, rope or other material. A pair of ball governors normally permits the fluid in the clutch casing to flow freely between the impeller and runner vanes so that the speed of the driven shaft is increased until it reaches a predetermined speed whereupon the governor operates a piston to inflate an expansible core which restricts passage of the fluid between the vanes and acts to slow down the driving shaft. (Owner) E. D. Hanson, 6121 Alta Ave., Baltimore 6, Md. Group 35—69. Reg. No. 3,287.

Pat. 2,331,760. ELECTRIC DRILLING, CALKING, CHIPPING, AND RIVETING TOOL. Patented Oct. 12, 1943. Tool which functions by delivering hammer blows is provided with a resilient connecting rod consisting mainly of two coiled springs which deliver power with substantially the same force as a solid connecting rod but with a minimum of shock to the driving mechanism. (Co-owner) Joseph Pentony, 209 Golf View Road, Merion Golf Manor, Ardmore, Pa. Group 35—42. Reg. No. 3,288.

Pat. 2,389,874. SEALING DEVICE FOR PIVOTAL JOINTS. Patented Nov. 27, 1945. Resilient seal prevents the entry of sand or other foreign matter into the bearing surfaces of relatively oscillatable members usually associated with conveyor chains. The seal is inserted into concentric grooves in the chain links and comprises a split length of rubber tubing and two metal rings. The spaced apart portions of the seal are compressed into such firm gripping relation with the two oscillatable members that no slippage takes place between the contacting surfaces of the oscillatable members and the resilient member. Seal is simple and inexpensive to make and inventor claims it has long life even in the presence of sand or other gritty material. (Co-owner) Charles A. Swartz, 4630 R. C. A. Bldg., New York 20, N. Y. Group 35—33. Reg. No. 3,289.

Pat. 2,353,510. IDLER ROLLER FOR BELT CONVEYERS. Patented July 11, 1944. Roller contains cushioning rings or tubes of resilient material. Rings are so constructed and mounted that any impact on the roller is transmitted to the cushioning elements in shear. By subjecting the cushioning elements to shear rather than compression greater deflection is afforded for an equal volume of the resilient material and the elements are stressed substantially uniformly. These rollers greatly increase the life of a conveyer belt. (Co-owner) Charles A. Swartz, 4630 R. C. A. Bldg., New York 20, N. Y. Group 35—33. Reg. No. 3,290.

Pat. 2,396,451. HOSE REELER. Patented Mar. 12, 1946. Hose is fastened around a pin and over a small plate. By rotating shaft hose is reeled into a straight or doughnut-like coil (after which it may be removed for storage). Reel is portable and adapted to woven fabric fire hose. (Owner) Theodore N. Warkentin, 1371 45th Ave., San Francisco 22, Calif. Group 35—69. Reg. No. 3,291.

Pat. 2,398,665. FLUID CLUTCH. Patented Apr. 16, 1946. Housed type hydraulic transmission with a single control member for effecting forward and reverse movements of a driven shaft from a neutral position without the use of valves or gears. A double ended impeller is keyed to the driving shaft and open at both ends to receive transmission fluid while discharging it centrifugally. A secondary runner of larger diameter is secured to the driven shaft, being open only at one end to permit the driving impeller to be telescoped within when the shafts are shifted longitudinally. (Owner) Carter Pietsch, 600 Livingston Bldg., Bloomington, Ill. Group 38—31. Reg. No. 3,292.

The following list covers electronic communications and signalling patents placed on the register by Farnsworth Television & Radio Corporation for licensing under standard terms and conditions. Inquiries for detailed information should be directed to Patent Department, Farnsworth Television & Radio Corporation, Fort Wayne, Indiana. Group 36—61. Reg. Nos. 3,293 to 3,303 inclusive.

Re. 21,818. RADIO TRAFFIC CONTROL SYSTEM. Reissued June 3, 1941. Originally Pat. 2,131,042; patented Sept. 27, 1938.

Pat. 2,254,218. ULTRA HIGH FREQUENCY RECEIVING SYSTEM. Patented Sept. 2, 1941.

Pat. 2,255,055. TRAFFIC SIGNALING SYSTEM. Patented Sept. 9, 1941.

Pat. 2,260,315. RADIO TRAFFIC CONTROL SYSTEM. Patented Oct. 28, 1941.

Pat. 2,347,477. SIGNALING SYSTEM. Patented Apr. 25, 1944.

Pat. 2,364,357. SIGNALING SYSTEM. Patented Dec. 5, 1944.

Pat. 2,385,701. AUTOMATIC RECORDING AND REPRODUCING SYSTEM. Patented Sept. 25, 1945.

Pat. 2,389,257. CARRIER WAVE SIGNALING SYSTEM. Patented Nov. 10, 1945.

Pat. 2,394,444. INDUCTION RADIO SYSTEM. Patented Feb. 5, 1946.

Pat. 2,398,741. SIGNALING SYSTEM. Patented Apr. 16, 1946.

Pat. 2,398,742. SUPERVISORY SYSTEM FOR COMMUNICATION CIRCUITS. Patented Apr. 16, 1946.

NEW TRADE-MARK LAW

EFFECTIVE JULY 5, 1947

[PUBLIC LAW 489—79TH CONGRESS]
[CHAPTER 540—2D SESSION]

[H. R. 1654]

AN ACT

TO PROVIDE FOR THE REGISTRATION AND PROTECTION OF TRADE-MARKS USED IN COMMERCE, TO CARRY OUT THE PROVISIONS OF CERTAIN INTERNATIONAL CONVENTIONS, AND FOR OTHER PURPOSES

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

TITLE I—THE PRINCIPAL REGISTER

SEC. 1. The owner of a trade-mark used in commerce may register his trade-mark under this act on the principal register hereby established:

(*a*) By filing in the Patent Office—

(1) A written application, in such form as may be prescribed by the Commissioner, verified by the applicant, or by a member of the firm or an officer of the corporation or association applying, specifying applicant's domicile and citizenship, the date of applicant's first use of the mark, the date of applicant's first use of the mark in commerce, the goods in connection with which the mark is used and the mode or manner in which the mark is used in connection with such goods, and including a statement to the effect that the person making the verification believes himself, or the firm, corporation, or association in whose behalf he makes the verification, to be the owner of the mark sought to be registered, that the mark is in use in commerce, and that no other person, firm, corporation, or association, to the best of his knowledge and belief, has the right to use such mark in commerce either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive: *Provided*, That in the case of every application claiming concurrent use the applicant shall state exceptions to his claim of exclusive use, in which he shall specify, to the extent of his knowledge, any concurrent use by others, the goods or services in connection with which and the areas in which each concurrent use exists, the periods of each use, and the goods and area for which the applicant desires registration;

(2) A drawing of the mark; and

(3) Such number of specimens or facsimiles of the mark as actually used as may be required by the Commissioner.

(*b*) By paying into the Patent Office the filing fee.

(*c*) By complying with such rules or regulations, not inconsistent with law, as may be prescribed by the Commissioner.

(*d*) If the applicant is not domiciled in the United States he shall designate by a written document filed in the Patent Office the name and address of some person resident in the United States on whom may be served notices or process in proceedings affecting the mark. Such notices or process may be served upon the person so designated by leaving with him or mailing to him a copy thereof at the address specified in the last designation so filed. If the person so designated cannot be found at the address given in the last designation, such notice or process may be served upon the Commissioner.

MARKS REGISTRABLE ON THE PRINCIPAL REGISTER

SEC. 2. No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the principal register on account of its nature unless it—

(*a*) Consists of or comprises immoral, deceptive, or scandalous matter; or matter which may disparage or falsely suggest a connection with persons, living or dead, institutions, beliefs, or national symbols, or bring them into contempt, or disrepute.

(*b*) Consists of or comprises the flag or coat of arms or other insignia of the United States, or of any State or municipality, or of any foreign nation, or any simulation thereof.

(*c*) Consists of or comprises a name, portrait, or signature identifying a particular living individual except by his written consent, or the name, signature, or portrait of a deceased President of the United States during the life of his widow, if any, except by the written consent of the widow.

(*d*) Consists of or comprises a mark which so resembles a mark registered in the Patent Office or a mark or trade name previously used in the United States by another and not abandoned, as to be likely, when applied to the goods of the applicant, to cause confusion or mistake or to deceive purchasers: *Provided*, That the Commissioner may register as concurrent registrations the same or similar marks to more than one registrant when they have become entitled to use such marks as a result of their concurrent lawful use thereof in commerce prior to any of the filing dates of the applications involved and the Commissioner or a court on appeal determines that confusion or mistake or deceit of purchasers is not likely to result from the continued use of said marks under conditions and limitations as to the mode or place of use or the goods in connection with which such registrations may be granted which conditions and limitations shall be prescribed in the grant of the concurrent registrations thereof; and concurrent registrations may be similarly granted by the Commissioner with such conditions and limitations when a court has finally determined that more than one person is entitled to use the same or similar marks in commerce. The Commissioner shall give not less than thirty days' written notice to all applicants, registrants, and users specified by any of the parties concerned of any application for concurrent registration and of the time and place of the hearings thereon. When the Commissioner decides to grant a concurrent registration the proposed registration shall be published in the OFFICIAL GAZETTE of the Patent Office and the application shall be subject to opposition as hereinafter provided for other applications to register marks. Concurrent registrations may be ordered by a court in an action under the provisions of section 4915, Revised Statutes, under such conditions and limitations as the court considers proper in accordance herewith.

(*e*) Consists of a mark which, (1) when applied to the goods of the applicant is merely descriptive or deceptively misdescriptive of them, or (2) when applied to the goods of the applicant is primarily geographically descriptive or deceptively misdescriptive of them, except as indications of regional origin may be registrable under section 4 hereof, or (3) is primarily merely a surname.

(*f*) Except as expressly excluded in paragraphs (*a*), (*b*), (*c*), and (*d*) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration.

SERVICE MARKS REGISTRABLE

SEC. 3. Subject to the provisions relating to the registration of trade-marks, so far as they are applicable, service marks used in commerce shall be registrable, in the same manner and with the same effect as are trade-marks, and when registered they shall be entitled to the protection provided herein in the case of trade-marks, except when used so as to represent falsely that the owner thereof makes or sells the goods on which such mark is used. The Commissioner may established a separate register for such service marks. Applications and procedure under this section shall conform as nearly as practicable to those prescribed for the registration of trade-marks.

COLLECTIVE AND CERTIFICATION MARKS REGISTRABLE

SEC. 4. Subject to the provisions relating to the registration of trade-marks, so far as they are applicable, collective and certification marks, including indications of regional origin used in commerce, shall be registrable under this act, in the same manner and with the same effect as are trade-marks, by persons, and nations, States, municipalities, and the like, exercising legitimate control over the use of the marks sought to be registered, even though not possessing an industrial or commercial establishment, and when registered they shall be entitled to the protection provided herein in the case of trade-marks, except when used so as to represent falsely that the owner or a user thereof makes or sells the goods or performs the services on or in connection with which such mark is used. The Commissioner may establish a separate register for such collective marks and certification marks. Applications and procedure under this section shall conform as nearly as practicable to those prescribed for the registration of trade-marks.

USE BY RELATED COMPANIES

SEC. 5. Where a registered mark or a mark sought to be registered is or may be used legitimately by related companies, such use shall inure to the benefit of the registrant or applicant for registration, and such use shall not affect the validity of such mark or of its registration, provided such mark is not used in such manner as to deceive the public.

DISCLAIMERS

SEC. 6. The Commissioner shall require unregistrable matter to be disclaimed, but such disclaimer shall not prejudice or affect the applicant's or owner's rights then existing or thereafter arising in the disclaimed matter, nor shall such disclaimer prejudice or affect the applicant's or owner's rights of registration on another application of later date if the disclaimed matter has become distinctive of the applicant's or owner's goods or services.

CERTIFICATES

SEC. 7. (*a*) Certificates of registration of marks registered upon the principal register shall be issued in the name of the United States of America, under the seal of the Patent Office, and shall either be signed by the Commissioner or have his name printed thereon and attested by an Assistant Commissioner or by one of the Law Examiners duly designated by the Commissioner, and a record thereof, together with printed copies of the drawing and statement of the applicant, shall be kept in books for that purpose. The certificate shall reproduce the drawing of the mark, contain the statement of the applicant and state that the mark is registered on the principal register under this act, the date of the first use of the mark, the date of the first use of the mark in commerce, the particular goods or services for which it is registered, the number and date of the registration, the term thereof, the date on which the application for registration was received in the Patent Office, and any conditions and limitations that may be imposed in the grant of the registration.

(*b*) A certificate of registration of a mark upon the principal register provided by this act shall be prima facie evidence of the validity of the registration, registrant's ownership of the mark, and of registrant's exclusive right to use the mark in commerce in connection with the goods or services specified in the certificate, subject to any conditions and limitations stated therein.

(*c*) A certificate of registration of a mark may be issued to the assignee of the applicant, but the assignment must first be recorded in the Patent Office. In case of change of ownership the Commissioner shall, at the request of the owner and upon a proper showing and the payment of the fee herein provided, issue to such assignee a new certificate of registration of the said mark in the name of such assignee, and for the unexpired part of the original period.

(*d*) At any time, upon application of the registrant and payment of the fee herein provided, the Commissioner may permit any registration in the Patent Office to be surrendered, canceled, or for good cause to be amended, and he may permit any registered mark to be disclaimed in whole or in part: *Provided*, That the registration when so amended shall still contain registrable matter and the mark as amended shall still be registrable as a whole, and that such amendment or disclaimer does not involve such changes in the registration as to alter materially the character of the mark. The Commissioner shall make appropriate entry upon the records of the Patent Office and upon the certificate of registration or, if said certificate is lost or destroyed, upon a certified copy thereof.

(*e*) Copies of any records, books, papers, or drawings belonging to the Patent Office relating to marks, and copies of certificates of registration, when authenticated by the seal of the Patent Office and certified by the Commissioner, or in his name by a chief of division duly designated by the Commissioner, shall be evidence in all cases wherein the originals would be evidence; and any person making application therefor and paying the fee required by law shall have such copies.

(*f*) Whenever a material mistake in a registration, incurred through the fault of the Patent Office, is clearly disclosed by the records of the Office a certificate stating the fact and nature of such mistake, signed by the Commissioner and sealed with the seal of the Patent Office, shall be issued without charge and recorded and a printed copy thereof shall be attached to each printed copy of the registration certificate and such corrected certificate shall thereafter have the same effect as if the same had been originally issued in such corrected form, or in the discretion of the Commissioner a new certificate of registration may be issued without charge. All certificates of correction heretofore issued in accordance with the rules of the Patent Office and the registrations to which they are attached shall have the same force and effect as if such certificates and their issue had been specifically authorized by statute.

(*g*) Whenever a mistake has been made in a registration and a showing has been made that such mistake occurred in good faith through the fault of the applicant, the Commissioner is authorized to issue a certificate of correction or, in his discretion, a new certificate upon the payment of the required fee: *Provided*, That the correction does not involve such changes in the registration as to require republication of the mark.

DURATION

SEC. 8. (*a*) Each certificate of registration shall remain in force for twenty years: *Provided*, That the registration of any mark under the provisions of this act shall be canceled by the Commissioner at the end of six years following its date, unless within one year next preceding the expiration of such six years the registrant shall file in the Patent Office an affidavit showing that said mark is still in use or showing that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark. Special notice of the requirement for such affidavit shall be attached to each certificate of registration.

(*b*) Any registration published under the provisions of subsection (*c*) of section 12 of this act shall be canceled by the Commissioner at the end of six years after the date of such publication unless within one year next preceding the expiration of such six years the registrant shall file in the Patent Office an affidavit showing that said mark is still in use or showing that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark.

(*c*) The Commissioner shall notify any registrant who files either of the above-prescribed affidavits of his acceptance or refusal thereof and, if a refusal, the reasons therefor.

RENEWAL

SEC. 9. Each registration may be renewed for periods of twenty years from the end of the expiring period upon the filing of an application therefor accompanied by an affidavit by the registrant stating that the mark is still in use in commerce and the payment of the renewal fee required by this act; and such application may be made at any time within six months before the expiration of the period for which the certificate of registration was issued or renewed, or it may be made within three months after such expiration on payment of the additional fee herein provided.

An applicant for renewal not domiciled in the United States shall be subject to and comply with the provisions of section 1 (*d*) hereof.

ASSIGNMENT

SEC. 10. A registered mark or a mark for which application to register has been filed shall be assignable with the goodwill of the business in which the mark is used, or with that part of the goodwill of the business connected with the use of and symbolized by the mark, and in any such assignment it shall not be necessary to include the goodwill of the business connected with the use of and symbolized by any other mark used in the business or by the name or style under which the business is conducted: *Provided*, That any assigned registration may be canceled at any time if the registered mark is being used by, or with the permission of, the assignee so as to misrepresent the source of the goods or services in connection with which the mark is used. Assignments shall be by instruments in writing duly executed. Acknowledgment shall be prima facie evidence of the execution of an assignment and when recorded in the Patent Office the record shall be prima facie evidence of execution. An assignment shall be void as against any subsequent purchaser for a valuable consideration without notice, unless it is recorded in the Patent Office within three months after the date thereof or prior to such subsequent purchase. The Commissioner shall keep a separate record of such assignments submitted to him for recording.

An assignee not domiciled in the United States shall be subject to and comply with the provisions of section 1 (*d*) hereof.

ACKNOWLEDGMENTS AND VERIFICATIONS

SEC. 11. Acknowledgments and verifications required hereunder may be made before any person within the United States authorized by law to administer oaths, or, when made in a foreign country, before any diplomatic or consular officer of the United States or before any official authorized to administer oaths in the foreign country concerned whose authority shall be proved by a certificate of a diplomatic or consular officer of the United States, and shall be valid if they comply with the laws of the State or country where made.

PUBLICATION

SEC. 12. (*a*) Upon the filing of an application for registration and payment of the fee herein provided, the Commissioner shall refer the application of the Examiner in

charge of the registration of marks, who shall cause an examination to be made and, if on such examination it shall appear that the applicant is entitled to registration, the Commissioner shall cause the mark to be published in the OFFICIAL GAZETTE of the Patent Office.

(b) If the applicant is found not entitled to registration, the Examiner shall advise the applicant thereof and of the reasons therefor. The applicant shall have a period of six months in which to reply or amend his application, which shall then be reexamined. This procedure may be repeated until (1) the Examiner finally refuses registration of the mark or (2) the applicant fails for a period of six months to reply or amend or appeal, whereupon the application shall be deemed to have been abandoned, unless it can be shown to the satisfaction of the Commissioner that the delay in responding was unavoidable, whereupon such time may be extended.

(c) A registrant of a mark registered under the provisions of the act of March 3, 1881, or the act of February 20, 1905, may, at any time prior to the expiration of the registration thereof, upon the payment of the prescribed fee file with the Commissioner an affidavit setting forth those goods stated in the registration on which said mark is in use in commerce and that the registrant claims the benefits of this act for said mark. The Commissioner shall publish notice thereof with a reproduction of said mark in the OFFICIAL GAZETTE, and notify the registrant of such publication and of the requirement for the affidavit of use or nonuse as provided for in subsection (b) of section 8 of this act. This subsection shall not be subject to the provisions of section 13 of this act.

OPPOSITION

SEC. 13. Any person who believes that he would be damaged by the registration of a mark upon the principal register may, upon payment of the required fee, file a verified notice of opposition in the Patent Office, stating the grounds therefor, within thirty days after the publication under subsection (a) of section 12 of this act of the mark sought to be registered. For good cause shown, the time for filing notice of opposition may be extended by the Commissioner, who shall notify the applicant. An unverified opposition may be filed by a duly authorized attorney, but such opposition shall be null and void unless verified by the opposer within a reasonable time after such filing to be fixed by the Commissioner.

CANCELLATION

SEC. 14. Any person who believes that he is or will be damaged by the registration of a mark on the principal register established by this act, or under the act of March 3, 1881, or the act of February 20, 1905, may upon the payment of the prescribed fee, apply to cancel said registration—

(a) Within five years from the date of the registration of the mark under this act; or

(b) Within five years from the date of the publication under section 12 (c) hereof of a mark registered under the act of March 3, 1881, or the act of February 20, 1905; or

(c) At any time if the registered mark becomes the common descriptive name of an article or substance on which the patent has expired, or has been abandoned or its registration was obtained fraudulently or contrary to the provisions of section 4 or of subsections (a), (b), or (c) of section 2 of this act for a registration hereunder, or contrary to similar prohibitory provisions of said prior acts for a registration thereunder, or if the registered mark has been assigned and is being used by, or with the permission of, the assignee so as to misrepresent the source of the goods or services in connection with which the mark is used, or if the mark was registered under the act of March 3, 1881, or the act of February 20, 1905, and has not been published under the provisions of subsection (c) of section 12 of this act; or

(d) At any time in the case of a certification mark on the ground that the registrant (1) does not control, or is not able legitimately to exercise control over, the use of such mark, or (2) engages in the production of marketing of any goods or services to which the mark is applied, or (3) permits the use of such mark for other purposes than as a certification mark, or (4) discriminately refuses to certify or to continue to certify the goods or services of any person who maintains the standards or conditions which such mark certifies.

Provided, That the Federal Trade Commission may apply to cancel on the grounds specified in subsections (c) and (d) of this section any mark registered on the principal register established by this act, and the prescribed fee shall not be required.

SEC. 15. Except on a ground for which application to cancel may be filed at any time under subsections (c) and (d) of section 14 of this act, and except to the extent, if any, to which the use of a mark registered on the principal register infringes a valid right acquired under the law of any State or Territory by use of a mark or trade name continuing from a date prior to the date of the publication under this act of such registered mark, the right of the registrant to use such registered mark in commerce for the goods or services on or in connection with which such registered mark has been in continuous use for five consecutive years subsequent to the date of such registration and is still in use in commerce, shall be incontestable: *Provided*, That—

(1) There has been no final decision adverse to registrant's claim of ownership of such mark for such goods or services, or to registrant's right to register the same or to keep the same on the register; and

(2) There is no proceeding involving said rights pending in the Patent Office or in a court and not finally disposed of; and

(3) An affidavit is filed with the Commissioner within one year after the expiration of any such five-year period setting forth those goods or services stated in the registration on or in connection with which such mark has been in continuous use for such five consecutive years and is still in use in commerce, and the other matters specified in subsections (1) and (2) hereof; and

(4) No incontestable right shall be acquired in a mark or trade name which is the common descriptive name of any article or substance, patented or otherwise.

Subject to the conditions above specified in this section, the incontestable right with reference to a mark registered under this act shall apply to a mark registered under the act of March 3, 1881, or the act of February 20, 1905, upon the filing of the required affidavit with the Commissioner within one year after the expiration of any period of five consecutive years after the date of publication of a mark under the provisions of subsection (c) of section 12 of this act.

The Commissioner shall notify any registrant who files the above-prescribed affidavit of the filing thereof.

INTERFERENCE

SEC. 16. Whenever application is made for the registration of a mark which so resembles a mark previously registered by another, or for the registration of which another has previously made application, as to be likely when applied to the goods or when used in connection with the services of the applicant to cause confusion or mistake or to deceive purchasers, the Commissioner may declare that an interference exists. No interference shall be declared between an application and the registration of a mark the right to the use of which has become incontestable.

SEC. 17. In every case of interference, opposition to registration, application to register as a lawful concurrent user, or application to cancel the registration of a mark, the Commissioner shall give notice to all parties and shall direct the Examiner in charge of interferences to determine and decide the respective rights of registration.

SEC. 18. In such proceedings the Commissioner may refuse to register the opposed mark, may cancel or restrict the registration of a registered mark, or may refuse to register any or all of several interfering marks, or may register the mark or marks for the person or persons entitled thereto, as the rights of the parties hereunder may be established in the proceedings: *Provided*, That in the case of the registration of any mark based on concurrent use, the Commissioner shall determine and fix the conditions and limitations provided for in subsection (d) of section 2 of this act.

SEC. 19. In all inter partes proceedings equitable principles of laches, estoppel, and acquiescence, where applicable may be considered and applied. The provisions of this section shall also govern proceedings hertofore begun in the Patent Office and hot finally determined.

SEC. 20. An appeal may be taken to the Commissioner in person from any final decision of the Examiner in charge of interferences or of the registration of marks upon the payment of the prescribed fees.

SEC. 21. Any applicant for registration of a mark, party to an interference proceeding, party to an opposition proceeding, party to an application to register as a lawful concurrent user, party to a cancellation proceeding, or any registrant who has filed an affidavit as provided in section 8, who is dissatisfied with the decision of the Commissioner may appeal to the United States Court of Customs and Patent Appeals or may proceed under section 4915, Revised Statutes, as in the case of applicants for patents, under the same conditions, rules, and procedure as are prescribed in the case of patent appeals or proceedings so far as they are applicable: *Provided*, That any party who is satisfied with the decision of the Commissioner shall, upon the filing of an appeal to the Court of Customs and Patent Appeals by any dissatisfied party, have the right to elect to have all further proceedings under Revised Statutes 4915, by election as provided in Revised Statutes 4911. The Commissioner of Patents shall not be a necessary party to an inter partes proceeding under Revised Statutes 4915, but he shall be notified of the filing of the bill by the Clerk of the Court in which it is filed and the Commissioner shall have the right to intervene in the action.

REGISTRATION IS NOTICE

SEC. 22. Registration of a mark on the principal register provided by this act or under the act of March 3, 1881, or the act of February 20, 1905, shall be constructive notice of the registrant's claim of ownership thereof.

TITLE II—THE SUPPLEMENTAL REGISTER

SEC. 23. In addition to the principal register, the Commissioner shall keep a continuation of the register provided in paragraph (b) of section 1 of the act of March 19, 1920, entitled "An act to give effect to certain provisions of the convention for the protection of trade-marks and commercial names, made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, and for other purposes," to be called the supplement register. All marks capable of distinguishing applicant's goods or services and not registrable on the principal register herein provided, except those declared to be unregistrable under paragraphs (a), (b), (c), and (d) of section 2 of this act, which have been in lawful use in commerce by the proprietor thereof, upon or in connection with any goods or services for the year preceding the filing of the application may be registered on the supplemental register upon the payment of the prescribed fee and compliance with the provisions of section 1 so far as they are applicable.

Upon the filing of an application for registration on the supplemental register and payment of the fee herein provided the Commissioner shall refer the application of the Examiner in charge of the registration of marks, who shall cause an examination to be made and if on such examination it shall appear that the applicant is entitled to registration, the registration shall be granted. If the applicant is found not entitled to registration the provisions of subsection (b) of section 12 of this act shall apply.

For the purposes of registration on the supplemental register, a mark may consist of any trade-mark, symbol, label, package, configuration of goods, name, word, slogan, phrase, surname, geographical name, numeral, or device or any combination of any of the foregoing, but such mark must be capable of distinguishing the applicant's goods or services.

Upon a proper showing by the applicant that he has begun the lawful use of his mark in foreign commerce and that he requires domestic registration as a basis for foreign protection of his mark, the Commissioner may waive the requirement of a full year's use and may grant registration forthwith.

CANCELLATION

SEC. 24. Marks for the supplemental register shall not be published for or be subject to opposition, but shall be published on registration in the OFFICIAL GAZETTE of the Patent Office. Whenever any person believes that he is or will be damaged by the registration of a mark on this register he may at any time apply to the Commissioner to cancel such registration. The Commissioner shall refer such application to the Examiner in charge of interferences, who shall give notice thereof to the registrant. If it is found after a hearing before the Examiner that the registrant was not entitled to register the mark at the time of his application for registration thereof, or that the mark is not used by the registrant or has been abandoned, the registration shall be canceled by the Commissioner.

SEC. 25. The certificates of registration for marks registered on the supplemental register shall be conspicuously different from certificates issued for marks registered on the principal register.

GENERAL PROVISIONS

SEC. 26. The provisions of this act shall govern so far as applicable applications for registration and registrations on the supplemental register as well as those on the principal register, but applications for and registrations on the supplemental register shall not be subject to or receive the advantages of sections 2 (e), 2 (f), 7 (b), 12 (a), 13 to 18, inclusive, 22, 33, and 42 of this act.

SEC. 27. Registration of a mark on the supplemental register, or under the act of March 19, 1920, shall not preclude registration by the registrant on the principal register established by this act.

SEC. 28. Registration on the supplemental register or under the act of March 19, 1920, shall not be filed in the Department of the Treasury or be used to stop importations.

TITLE III—NOTICE OF REGISTRATION

SEC. 29. Notwithstanding the provisions of section 22 hereof, a registrant of a mark registered under the act of March 3, 1881, or the act of February 20, 1905, or on the principal register established by this act, shall give notice that his mark is registered by displaying with the mark as used the words "Registered in U. S. Patent Office" or "Reg. U. S. Pat. Off." or the letter R enclosed within a circle, thus ®; and in any suit for infringement under this act by such a registrant failing so to mark goods bearing the registered mark, or by a registrant under the act of March 19, 1920, or by the registrant of a mark on the supplemental register provided by this act no profits and no damages shall be recovered under the provisions of this act unless the defendant had actual notice of the registration.

TITLE IV—CLASSIFICATION

SEC. 30. The Commissioner shall establish a classification of goods and services, for convenience of Patent Office administration, but not to limit or extend the applicant's rights. The applicant may register his mark in one application for any or all of the goods or services included in one class, upon or in connection with which he is actually using the mark. The Commissioner may issue a single certificate for one mark registered in a plurality of classes upon payment of a fee equaling the sum of the fees for each registration in each class.

TITLE V—FEES AND CHARGES

SEC. 31. The following fees shall be paid to the Patent Office under this act:

On filing each original application for registration of a mark in each class on either the principal or the supplemental register, $25; on filing each application for renewal in each class, $25; and on filing each application for renewal in each class after expiration of the registration, an additional fee of $5; on filing notice of claim of benefits of this act for a mark to be published under section 12 (c) hereof, $10; on filing notice of opposition or application for cancellation, $25; on appeal from an Examiner in charge of the registration of marks to the Commissioner, $25; on appeal from an Examiner in charge of interferences to the Commissioner, $25; for issuance of a new certificate of registration following change of ownership of a mark or correction of a registrant's mistake, $10; for certificate of correction of registrant's mistake, $10; for manuscript copies, for every one hundred words or fraction thereof, 10 cents; for comparing other copies, 5 cents for every one hundred words or fraction thereof; for certifying in any case, additional, $1; for each additional registration or application which may be included under a single certificate, 50 cents additional; for filing disclaimer, amendment, surrender, or cancellation after registration, $10.

For abstracts of title: For the search, one hour or less, and certificate, $3; each additional hour or fraction thereof, $1.50; for each brief from the digest of assignments of two hundred words or less, $1.

For certificate that trade-mark has not been registered—search and certificate (for deposit in foreign countries only), $3.

For title reports required for office use, $1.

For a single printed copy of statement and drawing, 10 cents; if certified, for the grant, additional, $1; for the certificate, $1; if renewed, for copy of certificate of renewal, additional, $1.

For photographic copies of records and drawings, the reasonable cost of making them.

For recording every assignment or other paper not exceeding six pages, $3; for each additional two pages or less, $1; for each additional registration or application included, or involved in one writing where more than one is so included or involved, additional, 50 cents.

The Commissioner shall refund fees paid by mistake or in excess.

TITLE VI—REMEDIES

Sec. 32. (1) Any person who shall, in commerce, (a) use, without the consent of the registrant, any reproduction, counterfeit, copy, or colorable imitation of any registered mark in connection with the sale, offering for sale, or advertising of any goods or services on or in connection with which such use is likely to cause confusion or mistake or to deceive purchasers as to the source of origin of such goods or services; or (b) reproduce, counterfeit, copy, or colorably imitate any such mark and apply such reproduction, counterfeit, copy, or colorable imitation to labels, signs, prints, packages, wrappers, receptacles, or advertisements intended to be used upon or in connection with the sale in commerce of such goods or services, shall be liable to a civil action by the registrant for any or all of the remedies hereinafter provided, except that under subsection (b) hereof the registrant shall not be entitled to recover profits or damages unless the acts have been committed with knowledge that such mark is intended to be used to cause confusion or mistake or to deceive purchasers.

(2) Notwithstanding any other provision of this act, the remedies given to the owner of the right infringed shall be limited as follows: (a) Where an infringer is engaged solely in the business of printing the mark for others and establishes that he was an innocent infringer the owner of the right infringed shall be entitled as against such infringer only to an injunction against future printing; (b) where the infringement complained of is contained in or is part of paid advertising matter in a newspaper, magazine, or other similar periodical the remedies of the owner of the right infringed as against the publisher or distributor of such newspaper, magazine, or other similar periodical shall be confined to an injunction against the presentation of such advertising matter in future issues of such newspapers, magazines, or other similar periodical: *Provided*, That these limitations shall apply only to innocent infringers; (c) injunction relief shall not be available to the owner of the right infringed in respect of an issue of a newspaper, magazine, or other similar periodical containing infringing matter when restraining the dissemination of such infringing matter in any particular issue of such periodical would delay the delivery of such issue after the regular time therefor, and such delay would be due to the method by which publication and distribution of such periodical is customarily conducted in accordance with sound business

practice, and not to any method or device adopted for the evasion of this section or to prevent or delay the issuance of an injunction or restraining order with respect to such infringing matter.

SEC. 33. (*a*) Any certificate of registration issued under the act of March 3, 1881, or the act of February 20, 1905, or of a mark registered on the principal register provided by this act and owned by a party to an action shall be admissible in evidence and shall be prima facie evidence of registrant's exclusive right to use the registered mark in commerce on the goods or services specified in the certificate subject to any conditions or limitations stated therein, but shall not preclude an opposing party from proving any legal or equitable defense or defect which might have been asserted if such mark had not been registered.

(*b*) If the right to use the registered mark has become incontestable under section 15 hereof, the certificate shall be conclusive evidence of the registrant's exclusive right to use the registered mark in commerce on or in connection with the goods or services specified in the certificate subject to any conditions or limitations stated therein except when one of the following defenses or defects is established:

(1) That the registration or the incontestable right to use the mark was obtained fraudulently; or

(2) That the mark has been abandoned by the registrant; or

(3) That the registered mark has been assigned and is being used, by or with the permission of the assignee, so as to misrepresent the source of the goods or services in connection with which the mark is used; or

(4) That the use of the name, term, or device charged to be an infringement is a use, otherwise than as a trade or service mark, of the party's individual name in his own business, or of the individual name of anyone in privity with such party, or of a term or device which is descriptive of and used fairly and in good faith only to describe to users the goods or services of such party, or their geographic origin; or

(5) That the mark whose use by a party is charged as an infringement was adopted without knowledge of the registrant's prior use and has been continuously used by such party or those in privity with him from a date prior to the publication of the registered mark under subsection (*a*) or (*c*) of section 12 of this act: *Provided, however,* That this defense or defect shall apply only for the area in which such continuous prior use is proved.

(6) That the mark whose use is charged as an infringement was registered and used prior to the publication under subsection (*a*) or (*c*) of section 12 of this act of the registered mark of the registrant, and not abandoned: *Provided, however,* That this defense or defect shall apply only where the said mark has been published pursuant to subsection (*c*) of section 12 and shall apply only for the area in which the mark was used prior to the date of publication of the registrant's mark under subsection (*a*) or (*c*) of section 12 of this act.

(7) That the mark has been or is being used to violate the antitrust laws of the United States.

SEC. 34. The several courts vested with jurisdiction of civil actions arising under this act shall have power to grant injunctions, according to the principles of equity and upon such terms as the court may deem reasonable, to prevent the violation of any right of the registrant of a mark registered in the Patent Office. Any such injunction may include a provision directing the defendant to file with the court and serve on the plaintiff within thirty days after the service on the defendant of such injunction, or such extended period as the court may direct, a report in writing under oath setting forth in detail the manner and form in which the defendant has complied with the injunction. Any such injunction granted upon hearing, after notice to the defendant, by any district court of the United States, may be served on the parties against whom such injunction is granted anywhere in the United States where they may be found, and shall be operative and may be enforced by proceedings to punish for contempt, or otherwise, by the court by which such injunction was granted, or by any other United States district court in whose jurisdiction the defendant may be found.

The said courts shall have jurisdiction to enforce said injunction, as herein provided, as fully as if the injunction had been granted by the district court in which it is sought to be enforced. The Clerk of the Court or judge granting the injunction shall, when required to do so by the court before which application to enforce said injunction is made, transfer without delay to said court a certified copy of all papers on file in his office upon which said injunction was granted.

It shall be the duty of the clerks of such courts within one month after the filing of any action, suit, or proceeding arising under the provisions of this act to give notice thereof in writing to the Commissioner setting forth in order so far as known the names and addresses of the litigants and the designating number or numbers of the registration or registrations upon which the action, suit, or proceeding has been brought, and in the event any other registration be subsequently included in the action, suit, or proceeding by amendment, answer, or other pleading, the clerk shall give like notice thereof to the Commissioner, and within one month after the decision is rendered, appeal taken or a decree issued the Clerk of the Court shall give notice thereof to the Commissioner, and it shall be the duty of the Commissioner on receipt of such notice forthwith to endorse the same upon the file wrapper of the said registration or registrations and to incorporate the same as a part of the contents of said file wrapper.

SEC. 35. When a violation of any right of the registrant of a mark registered in the Patent Office shall have been established in any civil action arising under this act, the plaintiff shall be entitled, subject to the provisions of sections 29 and 31 (1) (*b*), and subject to the principles of equity, to recover (1) defendant's profits, (2) any damages sustained by the plaintiff, and (3) the costs of the action. The court shall assess such profits and damages or cause the same to be assessed under its direction. In assessing profits the plaintiff shall be required to prove defendant's sales only; defendant must prove all elements of cost or deduction claimed. In assessing damages the court may enter judgment, according to the circumstances of the case, for any sum above the amount found as actual damages, not exceeding three times such amount. If the court shall find that the amount of the recovery based on profits is either inadequate or excessive the court may in its discretion enter judgment for such sum as the court shall find to be just, according to the circumstances of the case. Such sum in either of the above circumstances shall constitute compensation and not a penalty.

SEC. 36. In any action arising under this act, in which a violation of any right of the registrant of a mark registered in the Patent Office shall have been established, the court may order that all labels, signs, prints, packages, wrappers, receptacles, and advertisements in the possession of the defendant, bearing the registered mark or any reproduction, counterfeit, copy, or colorable imitation thereof, and all plates, molds, matrices, and other means of making the same, shall be delivered up and destroyed.

SEC. 37. In any action involving a registered mark the court may determine the right to registration, order the cancellation of registrations, in whole or in part, restore canceled registrations, and otherwise rectify the register with respect to the registrations of any party to the action. Decrees and orders shall be certified by the court to the Commissioner, who shall make appropriate entry upon the records of the Patent Office, and shall be controlled thereby.

SEC. 38. Any person who shall procure registration in the Patent Office of a mark by a false or fraudulent declaration or representation, oral or in writing, or by any false means, shall be liable in a civil action by any person injured thereby for any damages sustained in consequence thereof.

SEC. 39. The district and territorial courts of the United States shall have original jurisdiction, the circuit courts of appeal of the United States and the United States Court of Appeals for the District of Columbia shall have appellate jurisdiction, of all actions arising under this act, without regard to the amount in controversy or to diversity or lack of diversity of the citizenship of the parties.

SEC. 40. Writs of certiorari may be granted by the Supreme Court of the United States for the review of cases arising under this act in the same manner as provided for in cases under the patent laws.

SEC. 41. The Commissioner shall make rules and regulations, not inconsistent with law, for the conduct of proceedings in the Patent Office under this act.

TITLE VII—IMPORTATION FORBIDDEN OF GOODS BEARING INFRINGING MARKS OR NAMES

SEC. 42. That no article of imported merchandise which shall copy or simulate the name of any domestic manufacture, or manufacturer, or trader, or of any manufacturer or trader located in any foreign country which, by treaty, convention, or law affords similar privileges to citizens of the United States, or which shall copy or simulate a trade-mark registered in accordance with the provisions of this act or shall bear a name or mark calculated to induce the public to believe that the article is manufactured in the United States, or that it is manufactured in any foreign country or locality other than the country or locality in which it is in fact manufactured, shall be admitted to entry at any customhouse of the United States; and, in order to aid the officers of the customs in enforcing this prohibition, any domestic manufacturer or trader, and any foreign manufacturer or trader, who is entitled, under the provisions of a treaty, convention, declaration, or agreement between the United States and any foreign country to the advantages afforded by law to citizens of the United States in respect to trade-marks and commercial names, may require his name and residence, and the name of the locality in which his goods are manufactured, and a copy of the certificate of registration of his trade-mark, issued in accordance with the provisions of this act, to be recorded in books which shall be kept for this purpose in the Department of the Treasury, under such regulations as the Secretary of the Treasury shall prescribe, and may furnish to the Department facsimiles of his name, the name of the locality in which his goods are manufactured, or of his registered trade-mark, and thereupon the Secretary of the Treasury shall cause one or more copies of the same to be transmitted to each collector or other proper officer of customs.

TITLE VIII—FALSE DESIGNATIONS OF ORIGIN AND FALSE DESCRIPTIONS FORBIDDEN

SEC. 43. (*a*) Any person who shall affix, apply, or annex, or use in connection with any goods or services, or any container or containers for goods, a false designation of origin, or any false description or representation, including words or other symbols tending falsely to describe or represent the same, and shall cause such goods or services to enter into commerce, and any person who shall with knowledge of the falsity of such designation of origin or description or representation cause or procure the same to be transported or used in commerce or deliver the same to any carrier to be transported or used, shall be liable to a civil action by any person doing business in the locality falsely indicated as that of origin or in the region in which said locality is situated, or by any person who believes that he is or is likely to be damaged by the use of any such false description or representation.

(*b*) Any goods marked or labeled in contravention of the provisions of this section shall not be imported into the United States or admitted to entry at any customhouse of the United States. The owner, importer, or consignee of goods refused entry at any customhouse under this section may have any recourse by protest or appeal that is given under the customs revenue laws or may have the remedy given by this act in cases involving goods refused entry or seized.

TITLE IX—INTERNATIONAL CONVENTIONS

SEC. 44. (*a*) The Commissioner shall keep a register of all marks communicated to him by the international bureaus provided for by the conventions for the protection of industrial property, trade-marks, trade and commercial names, and the repression of unfair competition to which the United States is or may become a party, and upon the payment of the fees required by such conventions and the fees herein prescribed may place the marks so communicated upon such register. This register shall show a facsimile of the mark or trade or commercial name; the name, citizenship, and address of the registrant; the number, date, and place of the first registration of the mark, including the dates on which application for such registration was filed and granted and the term of such registration; a list of goods or services to which the mark is applied as shown by the registration in the country of origin, and such other data as may be useful concerning the mark. This register shall be a continuation of the register provided in section 1 (*a*) of the act of March 19, 1920.

(*b*) Persons who are nationals of, domiciled in, or have a bona fide and effective business or commercial establishment in any foreign country, which is a party to (1) the International Convention for the Protection of Industrial Property, signed at Paris on March 20, 1883; or (2) the General Inter-American Convention for Trade-Mark and Commercial Protection signed at Washington on February 20, 1929; or (3) any other convention or treaty relating to trade-marks, trade or commercial names, or the repression of unfair competition to which the United States is a party, shall be entitled to the benefits and subject to the provisions of this act to the extent and under the conditions essential to give effect to any such conventions and treaties so long as the United States shall continue to be a party thereto, except as provided in the following paragraphs of this section.

(*c*) No registration of a mark in the United States by a person described in paragraph (*b*) of this section shall be granted until such mark has been registered in the country of origin of the applicant, unless the applicant alleges use in commerce.

For the purposes of this section, the country of origin of the applicant is the country in which he has a bona fide and effective industrial or commercial establishment, or if he has not such an establishment the country in which he is domiciled, or if he has not a domicile in any of the countries described in paragraph (*b*) of this section, the country of which he is a national.

(*d*) An application for registration of a mark under sections 1, 2, 3, 4, or 23 of this act filed by a person described in paragraph (*b*) of this section who has previously duly filed an application for registration of the same mark in one of the countries described in paragraph (*b*) shall be accorded the same force and effect as would be accorded to the same application if filed in the United States on the same date on which the application was first filed in such foreign country: *Provided,* That-

(1) The application in the United States is filed within six months from the date on which the application was first filed in the foreign country;

(2) The application conforms as nearly as practicable to the requirements of this act, but use in commerce need not be alleged;

(3) The rights acquired by third parties before the date of the filing of the first application in the foreign country shall in no way be affected by a registration obtained on an application filed under this subsection (*d*);

(4) Nothing in this subsection (*d*) shall entitle the owner of a registration granted under this section to sue for acts committed prior to the date on which his mark was registered in this country unless the registration is based on use in commerce.

(*e*) A mark duly registered in the country of origin of the foreign applicant may be registered on the principal register if eligible, otherwise on the supplemental register herein provided. The application therefor shall be accompanied by a certified copy of the application for or registration in the country of origin of the applicant.

(*f*) The registration of a mark under the provisions of paragraphs (*c*), (*d*), and (*e*) of this section by a person described in paragraph (*b*) shall be independent of the registration in the country of origin and the duration, validity, or transfer in the United States of such registration shall be governed by the provisions of this act.

(*g*) Trade names or commercial names of persons described in paragraph (*b*) of this section shall be protected without the obligation of filing or registration whether or not they form parts of marks.

(*h*) Any person designated in paragraph (*b*) of this section as entitled to the benefits and subject to the provisions of this act shall be entitled to effective protection against unfair competition, and the remedies provided herein for infringement of marks shall be available so far as they may be appropriate in repressing acts of unfair competition.

(*i*) Citizens or residents of the United States shall have the same benefits as are granted by this section to persons described in paragraph (*b*) hereof.

TITLE X—CONSTRUCTION AND DEFINITIONS

SEC. 45. In the construction of this act, unless the contrary is plainly apparent from the context—

The United States includes and embraces all territory which is under its jurisdiction and control.

The word "commerce" means all commerce which may lawfully be regulated by Congress.

The term "principal register" refers to the register provided for by sections 1 through 22 hereof, and the term "supplemental register" refers to the register provided for by sections 23 through 28 hereof.

The term "person" and any other word or term used to designate the applicant or other entitled to a benefit or privilege or rendered liable under the provisions of this act includes a juristic person as well as a natural person. The term "juristic person" includes a firm, corporation, union, association, or other organization capable of suing and being sued in a court of law.

The terms "applicant" and "registrant" embrace the legal representatives and successors and assigns of such applicant or registrant.

The term "Commissioner" means the Commissioner of Patents.

The term "related company" means any person who legitimately controls or is controlled by the registrant or applicant for registration in respect to the nature and quality of the goods or services in connection with which the mark is used.

The terms "trade name" and "commercial name" include individual names and surnames, firm names and trade names used by manufacturers, industrialists, merchants, agriculturists, and others to identify their businesses, vocations, or occupations; the names or titles lawfully adopted and used by persons, firms, associations, corporations, companies, unions, and any manufacturing, industrial, commercial agricultural, or other organizations engaged in trade or commerce and capable of suing and being sued in a court of law.

The term "trade-mark" includes any word, name, symbol, or device or any combination thereof adopted and used by a manufacturer or merchant to identify his goods and distinguish them from those manufactured or sold by others.

The term "service mark" means a mark used in the sale or advertising of services to identify the services of one person and distinguish them from the services of others and includes without limitation the marks, names, symbols, titles, designations, slogans, character names, and distinctive features of radio or other advertising used in commerce.

The term "certification mark" means a mark used upon or in connection with the products or services of one or more persons other than the owner of the mark to certify regional or other origin, material, mode of manufacture, quality, accuracy or other characteristics of such goods or services or that the work or labor on the goods or services was performed by members of a union or other organization.

The term "collective mark" means a trade-mark or service mark used by the members of a cooperative, an association or other collective group or organization and includes marks used to indicate membership in a union, an association or other organization.

The term "mark" includes any trade-mark, service mark, collective mark, or certification mark entitled to registration under this act whether registered or not.

For the purposes of this act a mark shall be deemed to be used in commerce (*a*) on goods when it is placed in any manner on the goods or their containers or the displays associated therewith or on the tags or labels affixed thereto and the goods are sold or transported in commerce and (*b*) on services when it is used or displayed in the sale or advertising of services and the services are rendered in commerce.

A mark shall be deemed to be "abandoned"—

(*a*) When its use has been discontinued with intent not to resume. Intent not to resume may be inferred from circumstances. Nonuse for two consecutive years shall be prima facie abandonment.

(b) When any course of conduct of the registrant, including acts of omission as well as commission, causes the mark to lose its significance as an indication of origin.

The term "colorable imitation" includes any mark which so resembles a registered mark as to be likely to cause confusion or mistake or to deceive purchasers.

The term "registered mark" means a mark registered in the United States Patent Office under this act or under the act of March 3, 1881, or the act of February 20, 1905, or the act of March 19, 1920. The phrase "marks registered in the Patent Office" means registered marks.

The term "act of March 3, 1881," "act of February 20, 1905," or act of March 19, 1920," means the respective act as amended.

A "counterfeit" is a spurious mark which is identical with, or substantially indistinguishable from, a registered mark.

Words used in the singular include the plural and vice versa.

The intent of this act is to regulate commerce within the control of Congress by making actionable the deceptive and misleading use of marks in such commerce; to protect registered marks used in such commerce from interference by State, or territorial legislation; to protect persons engaged in such commerce against unfair competition; to prevent fraud and deception in such commerce by the use of reproductions, copies, counterfeits, or colorable imitations of registered marks; and to provide rights and remedies stipulated by treaties and conventions respecting trade-marks, trade names, and unfair competition entered into between the United States and foreign nations.

TITLE XI—REPEAL OF PREVIOUS ACTS

SEC. 46. (a) This act shall be in force and take effect one year from its enactment, but except as otherwise herein specifically provided shall not affect any suit, proceeding, or appeal then pending. All acts and parts of acts inconsistent herewith are hereby repealed effective one year from the enactment hereof, including the following acts insofar as they are inconsistent herewith: The act of Congress approved March 3, 1881, entitled "An act to authorize the registration of trade-marks and protect the same"; the act approved August 5, 1882, entitled "An act relating to the registration of trade-marks"; the act of February 20, 1905 (U. S. C., title 15, secs. 81 to 109, inclusive), entitled "An act to authorize the registration of trade-marks used in commerce with foreign nations or among the several States or with Indian tribes, and to protect the same," and the amendments thereto by the acts of May 4, 1906 (U. S. C., title 15, secs. 131 and 132; 34 Stat. 169), March 2, 1907 (34 Stat. 1251, 1252), February 18, 1909 (35 Stat. 627, 628), February 18, 1911 (36 Stat. 918), January 8, 1913 (37 Stat. 649), June 7, 1924 (43 Stat. 647), March 4, 1925 (43 Stat. 1268, 1269), April 11, 1930 (46 Stat. 155), June 10, 1938 (Public, Numbered 586, Seventy-fifth Congress, ch. 332, third session); the act of March 19, 1920 (U. S. C., title 15, secs. 121 to 128, inclusive), entitled "An act to give effect to certain provisions of the convention for the protection of trade-marks and commercial names made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, and for other purposes," and the amendments thereto, including the act of June 10, 1938 (Public, Numbered 586, Seventy-fifth Congress, ch. 332, third session); *Provided*, That this repeal shall not affect the validity of registrations granted or applied for under any of said acts prior to the effective date of this act, or rights or remedies thereunder except as provided in sections 8, 12, 14, 15, and 47 of this act; but nothing contained in this act shall be construed as limiting, restricting, modifying, or repealing any statute in force on the effective date of this act which does not relate to trade-marks, or as restricting or increasing the authority of any Federal department or regulatory agency except as may be specifically provided in this act.

(b) Registrations now existing under the act of March 3, 1881, or the act of February 20, 1905, shall continue in full force and effect for the unexpired terms thereof and may be renewed under the provisions of section 9 of this act. Such registrations and the renewals thereof shall be subject to and shall be entitled to the benefits of the provisions of this act to the same extent and with the same force and effect as though registered on the principal register established by this act except as limited in sections 8, 12, 14, and 15 of this act. Marks registered under the "ten-year proviso" of section 5 of the act of February 20, 1905, as amended, shall be deemed to have become distinctive of the registrant's goods in commerce under paragraph (f) of section 2 of this act and may be renewed under section 9 hereof as marks coming within said paragraph.

Registrations now existing under the act of March 19, 1920, shall expire six months after the effective date of this act, or twenty years from the dates of their registrations, whichever date is later. Such registrations shall be subject to and entitled to the benefits of the provisions of this act relating to marks registered on the supplemental register established by this act, and may not be renewed unless renewal is required to support foreign registrations. In that event renewal may be effected on the supplemental register under the provisions of section 9 of this act.

Marks registered under previous acts may, if eligible, also be registered under this act.

SEC. 47. (a) All applications for registration pending in the Patent Office at the effective date of this act may be amended, if practicable, to bring them under the provisions of this act. The prosecution of such applications so amended and the grant of registrations thereon shall be proceeded with in accordance with the provisions of this act. If such amendments are not made, the prosecution of said applications shall be proceeded with and registrations thereon granted in accordance with the acts under which said applications were filed, and said acts are hereby continued in force to this extent and for this purpose only, notwithstanding the foregoing general repeal thereof.

(b) In any case in which an appeal is pending before the United States Court of Customs and Patent Appeals or any United States circuit court of appeals or the United States Court of Appeals for the District of Columbia or the United States Supreme Court at the effective date of this act, the court, if it be of the opinion that the provisions of this act are applicable to the subject matter of the appeal, may apply such provision or may remand the case to the Commissioner or to the district court for the taking of additional evidence or a new trial or for reconsideration of the decision on the record as made, as the appellate court may deem proper.

SEC. 48. Section 4 of the act of January 5, 1905 (U. S. C., title 36, sec. 4), as amended, entitled "An act to incorporate the National Red Cross," and section 7 of the act of June 15, 1916 (U. S. C., title 36, sec. 27), entitled "An act to incorporate the Boy Scouts of America, and for other purposes," and the act of June 20, 1936 (U. S. C., title 22, sec. 248), entitled "An act to prohibit the commercial use of the coat of arms of the Swiss Confederation," are not repealed or affected by this act.

SEC. 49. Nothing herein shall adversely affect the rights or the enforcement of rights in marks acquired in good faith prior to the effective date of this act.

SEC. 50. If any provision of this act or the application of such provision to any person or circumstance is held invalid, the remainder of the act shall not be affected thereby.

Approved July 5, 1946.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 6, 1946

[VOL. 589. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 493,125. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Dec. 12, 1945.

KETON

FOR TOOTHBRUSH BRISTLES.
Claims use since June 12, 1945.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 496,171. STEINMAN BROS., New York, N. Y. Filed Feb. 7, 1946.

Stefen

FOR HANDBAGS AND PURSES.
Claims use since Mar. 26, 1945.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 487,526. STEPHEN E. RILEY, doing business as Stephen Riley Co., Los Angeles, Calif. Filed Aug. 24, 1945.

JUNIOR DUDES

FOR DETERGENT PREPARATION FOR USE IN BATHING.
Claims use since Feb. 28, 1945.

Ser. No. 489,029. WORTHINGTON PRODUCTS CO., INC., Arlington, Va. Filed Sept. 26, 1945.

FOG-GO

FOR PREPARATION TO PREVENT FOG OR MIST UPON GLASS SURFACES.
Claims use since Dec. 19, 1944.

Ser. No. 493,509. REFINED PRODUCTS COMPANY, Lyndhurst, N. J. Filed Dec. 18, 1945.

REPCO

FOR SOAP SUBSTITUTE APPLIED TO TEXTILES AND LEATHER AS A FINISHING AGENT AND DETERGENT.
Claims use since Sept. 1, 1945.

Ser. No. 493,510. REFINED PRODUCTS COMPANY, Lyndhurst, N. J. Filed Dec. 18, 1945.

REPCOLENE

FOR SOAP SUBSTITUTE APPLIED TO TEXTILES AND LEATHER AS A FINISHING AGENT AND DETERGENT.
Claims use since Sept. 1, 1945.

Ser. No. 493,511. REFINED PRODUCTS COMPANY, Lyndhurst, N. J. Filed Dec. 18, 1945.

REPCO PAR

FOR SOAP SUBSTITUTE APPLIED TO TEXTILES AND LEATHER AS A FINISHING AGENT AND DETERGENT.
Claims use since Sept. 1, 1945.

Ser. No. 495,036. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"ALOHA"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,038. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"AMBUSH"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,042. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"BRAZEN"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,044. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"CANOE"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,049. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"EMIR"

FOR TOILET SOAPS.
Claims use since December 31, 1945.

Ser. No. 495,055. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"LENIA"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,059. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"PRIORITÉ"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 489,820. EDGAR A. MURRAY CO., Detroit, Mich. Filed Oct. 11, 1945.

Bed Bug Doom

No claim is made to the words "Bed Bug" apart from the mark.
FOR INSECTICIDE OR INSECT EXTERMINATOR.
Claims use since 1898.

Ser. No. 489,822. EDGAR A. MURRAY CO., Detroit, Mich. Filed Oct. 11, 1945.

Moth Doom

No claim is made to the word "Moth" apart from the mark.
FOR INSECTICIDE OR INSECT EXTERMINATOR.
Claims use since 1898.

Ser. No. 492,152. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J. Filed Nov. 24, 1945.

NOPCO K F

FOR CHEMICAL COMPOSITION FOR USE AS A DEFOAMER AND SHEET FORMATION AID IN THE PULP AND PAPER INDUSTRIES.
Claims use since November 1939.

Ser. No. 492,153. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J. Filed Nov. 24, 1945.

K F

FOR CHEMICAL COMPOSITION FOR USE AS A DEFOAMER AND SHEET FORMATION AID IN THE PULP AND PAPER INDUSTRIES.
Claims use since November 1939.

Ser. No. 492,813. NORTHEASTERN PRODUCTS, INC., Boston, Mass. Filed Dec. 22, 1945.

NEPTOX

FOR INSECTICIDE.
Claims use since Dec. 6, 1945.

Ser. No. 494,367. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Jan. 5, 1946.

'TYROZATE'

FOR PREPARATION FOR USE IN TREATING SKIN CONDITIONS.
Claims use since Sept. 25, 1945.

Ser. No. 497,012. LLOYD BURNETT, doing business as The Mill-Stream Sanitary & Pest Control Co., Cincinnati, Ohio. Filed Feb. 21, 1946.

BUGAMIST

FOR INSECTICIDE.
Claims use since July 1, 1944.

Ser. No. 497,202. RUTLER CHEMICAL COMPANY, INC., Perth Amboy, N. J., and Washington, D. C. Filed Feb. 25, 1946.

Zir-gel

Apart from the mark the word "Gel" is disclaimed.
FOR ANTACID PREPARATION FOR INTERNAL USE.
Claims use since June 7, 1945.

Ser. No. 497,406. S. B. PENICK & COMPANY, New York, N. Y. Filed Feb. 28, 1946.

OPENTEINE

FOR PERFUME BASE USED AS A CONSTITUENT IN THE MANUFACTURE OF PERFUMES.
Claims use since Dec. 19, 1945.

Ser. No. 497,437. ALPINOL CORPORATION, New York, N. Y. Filed Mar. 1, 1946.

SULFIOZALP

FOR MEDICINAL PREPARATIONS HAVING SEDATIVE PROPERTIES FOR INTRAMUSCULAR OR INTRAVENOUS INJECTION.
Claims use since Sept. 27, 1945.

Ser. No. 497,742. REGINALD ROBBINS, doing business under the name Stratosphere Products Company, Los Angeles, Calif. Filed Mar. 6, 1946.

SKYWAY

FOR LIQUID ANTI-FREEZE COMPOSITION.
Claims use since Oct. 18, 1945.

Ser. No. 497,743. REGINALD ROBBINS, doing business under the name Stratosphere Products Company, Los Angeles, Calif. Filed Mar. 6, 1946.

STRATOSPHERE

FOR LIQUID ANTI-FREEZE COMPOSITION.
Claims use since Aug. 23, 1945.

Ser. No. 498,062. DELFERES E. GUIDRY, Port Lavaca, Tex. Filed Mar. 12, 1946.

D. E. Guidry

The mark is the facsimile signature of the applicant.
FOR MEDICINAL PREPARATION USED IN THE TREATMENT OF BRONCHIAL COUGHS.
Claims use since Aug. 17, 1945.

Ser. No. 498,135. GLOBE LABORATORIES, Fort Worth, Tex. Filed Mar. 13, 1946.

SULFA-MASTOL

The word "Sulfa" is disclaimed apart from the mark.
FOR FLUID SUSPENSION OF A SULFA DRUG FOR USE AS AN AID IN THE TREATMENT OF BOVINE MASTITIS.
Claims use since Feb. 25, 1946.

Ser. No. 498,167. PARK & TILFORD, New York, N. Y. Filed Mar. 13, 1946.

Sharp!

FOR PERFUME, TOILET WATER, FACE POWDER, LIPSTICK, ROUGE, AND TALCUM POWDER.
Claims use since Feb. 2, 1946.

Ser. No. 498,311. REPLICA PRODUCTS COMPANY, New York, N. Y. Filed Mar. 15, 1946.

REPLICA

FOR OFFSET LITHOGRAPHY CHEMICAL SOLUTIONS.
Claims use since June 1945.

CLASS 10

FERTILIZERS

Ser. No. 492,805. UNIVERSAL ZONOLITE INSULATION CO., Chicago, Ill. Filed Dec. 6, 1945.

LUSH

FOR EXFOLIATED VERMICULITE FOR SOIL CONDITIONING AND PLANT GERMINATION.
Claims use since Nov. 8, 1945.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 492,397. REYNOLDS INTERNATIONAL PEN COMPANY, Chicago, Ill. Filed Nov. 29, 1945.

SATIN - FLO

No claim is made to the word "Flo" apart from the mark.
FOR INK.
Claims use since Sept. 1, 1945.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 465,735. HARRY DARBY, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Filed Dec. 13, 1943.

PRAIRIE SCHOONER

FOR FIRE DOORS FOR BUILDINGS, METAL DOORS, METAL CONCRETE FORMS AND PENSTOCKS.
Claims use since Nov. 16, 1943.

Ser. No. 472,390. KOMPOLITE CO., INC., Brooklyn, N. Y. Filed July 19, 1944.

THERMOFLEX

FOR FIREPROOF AND NON-SMOKE PRODUCING HIGH STRENGTH HYDRAULIC CEMENT COMPOSITION FOR USE PARTICULARLY IN THE MARINE FIELD.
Claims use since Oct. 27, 1943.

Ser. No. 477,727. WINDSOR-LLOYD PRODUCTS, INC., Philadelphia, Pa. Filed Dec. 18, 1944.

RESISTO

FOR ASPHALT ROOFING PAPER.
Claims use since Sept. 4, 1944.

Ser. No. 479,672. THE GELLIN CO., Cleveland, Ohio. Filed Feb. 10, 1945.

GELCO

FOR INDUSTRIAL FLOOR COMPOSITION—NAMELY, ASPHALT AND ASPHALT CEMENT; CONCRETE, TILE, BRICK AND WOOD FLOOR PATCH COMPOUNDS; BINDERS FOR MASTIC FLOOR COMPOUNDS; PRIMERS FOR BITUMINOUS FLOOR COMPOUNDS AND PRIMER THINNERS USED WITH BITUMINOUS FLOOR COMPOUNDS; AND BITUMINOUS COVERINGS FOR DECKS.
Claims use since Jan. 1, 1936.

Ser. No. 495,235. RUDOLF F. HLAVATY, doing business as Hlavaty Insulations, Cicero, Ill. Filed Jan. 23, 1946.
Applicant claims ownership of Nos. 410,312, 413,717, and 415,907.

MAGICFILM

FOR SHEET MATERIAL RESISTANT TO ACID, FLAME, AND WATER, FOR USE AS SOUND AND THERMAL INSULATION, INCLUDING MICA WITHIN THE MATERIAL OR COATED ON THE MATERIAL.
Claims use since Nov. 20, 1945.

Ser. No. 496,431. COMMONWEALTH PLYWOOD COMPANY LIMITED, Ste. Therese, Quebec, Canada. Filed Feb. 12, 1946.

HUSKY PLYWOOD

The word "Plywood" is disclaimed apart from the mark as shown, however by making such disclaimer the applicant does not waive its common law rights.
FOR PLYWOOD.
Claims use since Aug. 6, 1948.

Ser. No. 499,643. THE LUMBERMAN'S DOOR & TRIM COMPANY, Cleveland, Ohio. Filed Apr. 4, 1946.

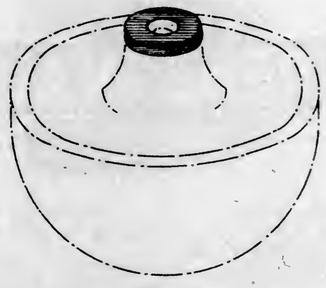
win-sum

FOR COMBINATION STORM AND SCREEN PANEL STRUCTURES SUCH AS DOORS, WINDOWS, AND PORCH ENCLOSURES.
Claims use since 1925.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 469,366. J. A. SEXAUER MFG. CO., INC., New York, N. Y. Filed Apr. 15, 1944.



Applicant is the owner of Reg. No. 260,762. The lining of the drawing indicates the color blue arbitrarily applied to the tip of the shank portion of the goods. No claim is made to the representation of a flush valve bulb.
FOR FLUSH VALVE BULBS.
Claims use since the year 1929.

Ser. No. 494,300. BIC MANUFACTURING CORPORATION, New York, N. Y. Filed Jan. 5, 1946.

BIC

The lining on the drawing indicates shading.
FOR CLOTHES LINE SUPPORTS, CLOTHES LINE TIGHTENERS, AND CLOTHES LINE PULLEYS, SOLD AS A UNIT; AND PLUMBING TRAPS.
Claims use since Dec. 26, 1945.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 483,148. H. H. ROBERTSON COMPANY, Pittsburgh, Pa. Filed May 9, 1945.

RP

FOR PAINTS AND PARTICULARLY ANTI-FOULING PAINTS AND PIGMENTS FOR ANTI-FOULING PAINTS, ASPHALTIC AND BITUMINOUS PAINTS, AND ASPHALTIC AND BITUMINOUS MATERIALS SOLD TO THE TRADE FOR USE IN THE PREPARATION OF PAINT.
Claims use since July 17, 1919.

Ser. No. 487,354. CHEMICAL MANUFACTURING & DISTRIBUTING COMPANY, Easton, Pa. Filed Aug. 21, 1945.

Tuf-Glo

FOR SELF-POLISHING WAXES, FLOOR, FURNITURE, AND AUTOMOBILE POLISHING WAXES, AND FURNITURE POLISHES.
Claims use since Mar. 1, 1940.

Ser. No. 491,103. MAC'S SUPER GLOSS CO., Los Angeles, Calif. Filed Nov. 5, 1945.

MAC'S-IT DON'T WAX IT MAC'S IT!

No claim is made to the words "Don't Wax It" apart from the mark.
FOR WAX FOR FLOORS, FURNITURE, AND AUTOMOBILES.
Claims use since May 1939.

Ser. No. 494,843. HILLYARD CHEMICAL COMPANY, St. Joseph, Mo. Filed Jan. 16, 1946.

HIL-WAL

FOR READY-MIXED PAINT.
Claims use since Oct. 30, 1945.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 493,212. PIEZO MANUFACTURING CORPORATION, New York, N. Y. Filed Dec. 13, 1945.

PIEZO

FOR PIPE AND CIGARETTE TOBACCO, CIGARETTES, AND CIGARS.
Claims use since Dec. 1, 1945.

CLASS 19

VEHICLES

Ser. No. 479,342. HALLAM, SLEIGH & CHESTON, Birmingham, England. Filed Feb. 2, 1945.

SIMPLASTIC

FOR COMPLETE FRAMES FOR WINDOWS AND WINDSHIELDS OF VEHICLES, AND GLAZING STRIPS OF RUBBER FOR FITTING GLASS WINDOW PANES INTO SAID VEHICLE WINDOW AND WINDSHIELD FRAMES.
Claims use since March 1938.

Ser. No. 494,892. JOHN W. DONAHEY, Hudson, Ohio. Filed Jan. 17, 1946.

TAG-ALONG

FOR TRAILERS.
Claims use since July 1, 1945.

Ser. No. 496,363. ALLIED AMERICAN STEEL CORPORATION, Chicago, Ill. Filed Feb. 11, 1946.

Ambassador

FOR CHILDREN'S STROLLERS.
Claims use since July 2, 1945.

Ser. No. 497,252. HENRY M. KINSLOW, Pasadena, Calif. Filed Feb. 26, 1946.

SKEETER

FOR SCOOTER-TYPE WHEELED VEHICLES.
Claims use since Dec. 24, 1945.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 493,027. SOUTHERN BARGAIN HOUSE, INC., Richmond, Va. Filed Dec. 10, 1945.

SERVITEX

FOR FELT BASE FLOOR COVERINGS.
Claims use since Nov. 20, 1945.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 477,604. FOLLSAIN METALS LTD., Lutterworth, near Rugby, England. Filed Dec. 15, 1944.

PENETRAL

Applicant disclaims the right to the exclusive use of the cut section of metal tube. The lining shown on the drawing indicates shading only.
FOR ELECTRICAL APPLIANCES AND PARTS THEREOF—NAMELY, SUPPORTS OF THE HEATING ELEMENTS IN ELECTRIC FURNACES; ELECTRODES FOR IGNITION APPARATUS IN OIL FIRED BURNERS; AND CONTAINERS, I. E. BOATS SUITABLE FOR INSERTION IN ELECTRIC TUBULAR FURNACES AND FOR USE IN CONNECTION THEREWITH.
Claims use since June 1, 1935.

Ser. No. 479,323. AMPCO METAL, INC., Milwaukee, Wis. Filed Feb. 2, 1945.

AMPCO

FOR ELECTRIC TERMINALS AND CONTACTS, TROLLEY SHOES, SWITCH CONTACTS, ELECTRIC RESISTANCE AND FLASH WELDING ELECTRODES, ELECTRODE HOLDERS.
Claims use since February 1919.

Ser. No. 479,874. PAUL HENRY, doing business as Raitronics, Ltd., Los Angeles, Calif. Filed Feb. 16, 1945.

raitronics, ltd.

FOR ELECTRICAL RELAYS.
Claims use since July 6, 1944.

Ser. No. 480,614. OAKES & COMPANY, doing business as Tru-Test, Chicago, Ill. Filed Mar. 7, 1945.

VAL-KEEN

FOR ELECTRIC TOOLS—NAMELY, DRILLS, PORTABLE GRINDERS, UNITARY BENCH GRINDERS, PORTABLE SAWS, SHAVERS, PAINT SPRAYING UNITS; PORTABLE ELECTRIC FANS; STORAGE BATTERIES, DRY CELL BATTERIES, FLASHLIGHTS, FLASHLIGHT BULBS, FRICTION TAPE, ELECTRIC LANTERNS, FENCE CHARGERS AND PARTS THEREOF, ELECTRIC FENCE CONTROLLERS, RADIO RECEIVING SETS, AND COMBINATION RECORD PLAYING AND RADIO RECEIVING SETS AND PARTS THEREOF, FUSE PLUGS, LIGHT SOCKETS, LIGHTING FIXTURES, FLOOR AND TABLE LAMPS, TRANSFORMERS, INCANDESCENT LAMPS, ELECTRIC LIGHTING PLANTS, ELECTRIC MOTORS, ELECTRIC WATER PUMPS, BATTERY CHARGERS; AUTOMOBILE AND TRACTOR PARTS—NAMELY, IGNITION COILS, DISTRIBUTORS, CONDENSERS, SPARK PLUGS, STARTERS, IGNITION WIRE AND CABLE, GENERATORS AND PARTS THEREOF, ELECTRIC HORNS, HEAD AND TAIL LIGHTS, FOG LIGHTS, LIGHT BULBS, FUSES, STARTER SWITCHES, ELECTRIC WINDSHIELD WIPERS; ELECTRIC APPLIANCES—NAMELY, FOOD MIXERS AND JUICERS, ROASTERS, WAFFLE IRONS, PERCOLATORS, IRONS, VACUUM CLEANERS, DOORBELLS, CHIMES AND BUZZERS, CIRCULATING HEATERS, STOVES, AND HOT PLATES.
Claims use since Sept. 15, 1944.

Ser. No. 487,522. PICKER X-RAY CORPORATION, WAITE MANUFACTURING DIVISION, INC., Cleveland, Ohio. Filed Aug. 24, 1945.

Pectronic

FOR TIMERS, STARTERS, AND VOLTAGE LIMITERS UTILIZED IN CONNECTION WITH X-RAY APPARATUS.
Claims use since July 25, 1945.

Ser. No. 486,691. BARON HARTSOUGH, Los Angeles, Calif. Filed Sept. 19, 1945.

The Tone of Tomorrow

The exclusive right to the word "Tone" is disclaimed apart from the mark shown in the drawing.
FOR ELECTRIC SPEAKER UNITS.
Claims use since May 25, 1945.

Ser. No. 494,662. DOSSERT MFG. CORP., Brooklyn, N. Y. Filed Jan. 12, 1946.

DOSSON

FOR ELECTRICAL LUG CONNECTORS.
Claims use since May 1944.

Ser. No. 496,274. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 8, 1946.

Chanticleer

FOR RADIO RECEIVING SETS.
Claims use since Dec. 31, 1945.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 484,025. HOBBY HILL, Chicago, Ill. Filed May 31, 1945.

"SNORTIE"

FOR TOYS IN THE FORM OF ANIMALS HAVING JACK-IN-THE-BOX FEATURES IN THE BODIES THEREOF AND THE HEADS OF WHICH ARE MOVABLE IN VARIOUS DIRECTIONS.
Claims use since Aug. 1, 1944.

Ser. No. 491,033. SPORT PRODUCTS INC., Cincinnati, Ohio. Filed Nov. 3, 1945.

Chieftain

FOR TENNIS RACKETS.
Claims use since May 1, 1939.

Ser. No. 493,822. RAIN-BEAU PRODUCTS COMPANY, Canton, Mass. Filed Dec. 22, 1945.

BRONZE-BEAU

The word "Bronze" is disclaimed apart from the mark.
FOR FISHING LINES.
Claims use since Nov. 23, 1945.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 470,360. UNIVERSAL ENGINEERING CORPORATION, Cedar Rapids, Iowa. Filed May 17, 1944.

UENCO

FOR CRUSHERS, SCREENERS, CONVEYORS, MECHANICAL FEEDERS, WASHERS, SAND TANKS, HAMMER MILLS; PLANTS FOR CRUSHING, SCREENING AND CONVEYING AGGREGATE; PLANTS FOR DRYING AND MIXING AGGREGATE; METAL-WORKING MILLING MACHINES; AND MACHINES COMPRISING ASSEMBLIES OF SUCH DEVICES, AND PARTS THEREOF.
Claims use since May 10, 1944.

Ser. No. 473,547. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed Aug. 23, 1944. Under 10-year proviso.

SINGER SEWING MACHINES

The drawing is lined to indicate the color red.
FOR FAMILY AND MANUFACTURING SEWING MACHINES, THEIR PARTS AND ATTACHMENTS, AND SEWING MACHINE STANDS.
Claims use since 1870.

Ser. No. 483,960. THE J. S. CLARK COMPANY, Detroit, Mich. Filed May 30, 1945.

-CLAROCO-

FOR PORTABLE DUST COLLECTORS CONSISTING OF A FLEXIBLE HOSE CONNECTIBLE TO ANY SOURCE OF DUST GENERATION AND LEADING THROUGH A FILTER TO A SUCTION BLOWER CONNECTED TO A REMOVABLE DUST COLLECTING CONTAINER, ALL MOUNTED WITHIN AN ENCLOSING CASING SUPPORTED ON CASTORS FOR MOVEMENT TO THE LOCATION TO BE CLEANED.
Claims use since Apr. 17, 1945.

Ser. No. 489,102. COALTOTER CONVEYER CO., Chicago, Ill. Filed Sept. 28, 1945.

TOTE ALL

Applicant disclaims the exclusive right to the use of the word "Tote" apart from the mark as shown.
FOR PORTABLE POWER DRIVEN BELT CONVEYING APPARATUS.
Claims use since Dec. 15, 1944.

Ser. No. 495,082. MELCRAFT, Saginaw, Mich. Filed Jan. 19, 1946.

MEL Craft

The word "Craft" forming a part of the presented mark is disclaimed apart from the mark as shown on the drawing.
FOR MINIATURE MODEL INTERNAL COMBUSTION ENGINES, MINIATURE FUEL TANKS FOR MODEL ENGINES AND MINIATURE CARBURETORS, THE SAID CARBURETORS AND FUEL TANKS BEING COMPONENT PARTS OF SAID MODEL ENGINES.
Claims use since September 1944.

Ser No. 495,372. THE GAILSTYN COMPANY, New York, N. Y. Filed Jan. 25, 1946.

Charbet

FOR KITCHEN, TABLE, AND HOUSEHOLD CUTLERY MADE OF BASE METALS AND PARTS THEREOF—NAMELY, FORKS, KNIVES, SPOONS, PARING KNIVES, SLICING KNIVES, CLEAVERS, CARVING SETS, BUTCHER KNIVES, TEASPOONS, SOUP SPOONS, SALAD FORKS, AND BUTTER KNIVES.
Claims use since Dec. 15, 1945.

Ser. No. 495,377. GRAND SPECIALTIES COMPANY, Chicago, Ill. Filed Jan. 25, 1946.

GRAND C

FOR WORK HOLDING CLAMPS PARTICULARLY C-CLAMPS.
Claims use since Jan. 10, 1946.

Ser. No. 495,924. WESSON COMPANY, Ferndale, Mich. Filed Feb. 2, 1946.

Varicut

FOR MILLING CUTTERS.
Claims use since Nov. 26, 1945.

Ser. No. 496,521. MICHAEL J. SCHLITTERS, doing business as Screw Machine Tool Company, Detroit, Mich. Filed Feb. 13, 1946.

SLITTERS'

FOR SCREW MACHINE AND TURRET LATHE TOOL HOLDERS AND PARTS—NAMELY, CUT-OFF SLIDES, FORM SLIDES, FORM TOOL HOLDERS, RECESS TOOL HOLDERS, SHAVE TOOL HOLDERS, KNEE TURNERS, REGULAR TURNERS, TELESCOPIC THREADING SPINDLES, AND ALSO FOR METAL VISES SUITED TO VARIOUS MACHINE SHOP USES.
Claims use since July 28, 1937.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 497,565. FRANK L. POLLARD COMPANY, Oakland, Calif. Filed Mar. 2, 1946.

POLLY

FOR CLOTHES RACKS FOR DRYING CLOTHES.
Claims use since Sept. 9, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 487,607. DYNAMATIC CORPORATION, Kenosha, Wis. Filed Aug. 27, 1945.

DYNAMATIC

FOR DYNAMOMETERS.
Claims use since Apr. 4, 1936.

Ser. No. 488,445. BOL, LTD., New York, N. Y. Filed Sept. 14, 1945.

AUDIOREADER

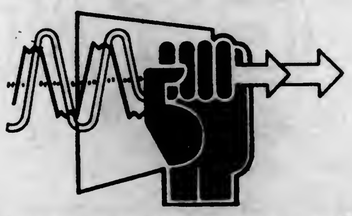
FOR OPTICAL FILM VIEWING APPARATUS AND OPTICAL APPARATUS FOR VIEWING PRINTED MATTER.
Claims use since Jan. 1, 1945.

Ser. No. 494,466. SPECIAL PRODUCTS COMPANY, Silver Spring, Md. Filed Jan. 8, 1946.

SPECIAL PRODUCTS COMPANY
speco
SILVER SPRING, MARYLAND

The words "Special Products Company" and "Silver Spring, Maryland" are disclaimed apart from the mark as shown.
FOR RADIO ANALYZING APPARATUS FOR USE IN MAKING MEASUREMENTS AND LOCATING CAUSES OF DEFECTIVE OPERATION IN STANDARD RADIO RECEIVERS.
Claims use since Oct. 4, 1945.

Ser. No. 496,458. NORTH AMERICAN PHILIPS COMPANY, INC., Dobbs Ferry, N. Y. Filed Feb. 12, 1946.



FOR X-RAY APPARATUS FOR INDUSTRIAL INSPECTION AND TESTING AND LABORATORY EXPERIMENTATION.
Claims use since Nov. 20, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 494,313. DIDISHEIM, GOLDSCHMIDT FILS ET CIE, FABRIQUE JUVENIA, La Chaux-de-Fonds, Switzerland. Filed Jan. 5, 1946.

REFRASCOPE

FOR WATCHES, WATCH PARTS, CLOCKS, AND CLOCK PARTS.
Claims use since Aug. 22, 1945.

Ser. No. 497,792. HYMAN GOLDWAG, Brooklyn, N. Y. Filed Mar. 7, 1946.

HY-GO

FOR WATCHES.
Claims use since Feb. 27, 1946.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 483,422. CORO INC., New York, N. Y. Filed May 16, 1945.

for that priceless look

FOR PEARL NECKLACES, PEARL EARRINGS, PEARL BRACELETS, PEARL BROOCHES, PEARL RINGS, PEARLS AND JEWELRY FOR PERSONAL WEAR OR ADORNMENT NOT INCLUDING WATCHES—NAMELY, NECKLACES, BRACELETS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS; AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME—NAMELY, BEADS, PINS, HAT ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES AND JEWELRY INITIALS.
Claims use since January 1944.

Ser. No. 489,395. GEMEX COMPANY, Union, N. J. Filed Oct. 4, 1945.

GEM

Applicant disclaims the word "Gem" aside from the mark.
FOR WATCH BRACELETS, WATCH STRAPS, NECK CHAINS, WATCH CHAINS, SCARF PINS, BRACELETS, BELT BUCKLES, EAR ORNAMENTS AND HAIR ORNAMENTS, MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME, NOT INCLUDING WATCHES.
Claims use since June 28, 1944; and since 1927 on the name "Gemex."

Ser. No. 491,288. SAMUEL RUBIN, New York, N. Y. Filed Nov. 8, 1945.

Fabergé

FOR SIMULATED PEARLS, CULTURED PEARLS, JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES—NAMELY, BROOCHES, BRACELETS, HAIR ORNAMENTS, NECKLACES, LAVALLIERES, LINGERIE CLASPS, LOCKETS, ORNAMENTAL PINS, PENDANTS, HATPINS, FINGER RINGS, SCARF PINS, WATCH BRACELETS, WATCH CHAINS, EMBLEMS AND FOBS; AND THE FOLLOWING ARTICLES MADE OF PRECIOUS OR SEMI-PRECIOUS METAL—NAMELY, CIGARETTE CASES, KEY RINGS, POWDER BOXES, AND BUCKLES.
Claims use since March 1940.

Ser. No. 492,810. THOMAS B. WILSON, Minneapolis, Minn. Filed Dec. 6, 1945.

Madonna

FOR LOCKETS.
Claims use since September 1945.

Ser. No. 494,031. CORO, INC., New York, N. Y. Filed Dec. 29, 1945.

ATOMIC

FOR FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METALS OR PLATED WITH THE SAME: BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, CIGARETTE CASES, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since Oct. 1, 1945.

Ser. No. 495,398. ELIZABETH S. MOSER, doing business as Elsbeth Novelties, Fort Wayne, Ind. Filed Jan. 25, 1946.

HUG-BUG

No claim is made to the word "Bug" apart from the trade-mark shown.
FOR FANCIFUL CONFIGURATIONS OF LIVING CREATURES, SUCH AS INSECTS, FOR PERSONAL WEAR OR ADORNMENT; NOT INCLUDING WATCHES.
Claims use since Oct. 15, 1945.

Ser. No. 496,440. PAUL R. FREYD, doing business as Associated Manufacturers, Providence, R. I. Filed Feb. 12, 1946.

CHARMBELS

FOR BROOCHES, EARRINGS, PINS, BRACELETS, LOCKETS, PENDANTS, AND NECKLACES, ALL MADE OF PRECIOUS AND SEMI-PRECIOUS METAL.
Claims use since Dec. 1, 1945.

Ser. No. 496,674. LOUIS VOGEL, Chicago, Ill. Filed Feb 15, 1946.

DIVINE

FOR FINGER RINGS, WEDDING BANDS, AND MOUNTINGS THEREFOR.
Claims use since Feb. 4, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 496,689. CONSOLIDATED COSMETICS, Chicago, Ill. Filed Feb. 16, 1946.

TABU

FOR POWDER PUFFS AND CLOTHES BRUSHES.
Claims use since Feb. 13, 1946.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 498,395. THE CELLULO COMPANY, Sandusky, Ohio. Filed Mar. 18, 1946.

WHITE ★ STAR

FOR FILTERMASS.
Claims use since Apr. 23, 1920.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 491,165. MORRIS LIPPS, doing business as Greater New York Bedding Company, Brooklyn, N. Y. Filed Nov. 6, 1945.

BEDRESS

FOR BED BOLSTERS.
Claims use since July 1945.

CLASS 33

GLASSWARE

Ser. No. 495,027. GERMANOW-SIMON MACHINE CO., Rochester, N. Y. Filed Jan. 19, 1946.

G-S FLEXO

Applicant is the owner of Reg. No. 300,879.
FOR WATCH CRYSTALS, PARTICULARLY UNBREAKABLE WATCH CRYSTALS.
Claims use since 1917 on the word "Flexo"; and since 1920 on the mark presented.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 488,525. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Sept. 15, 1945.

HOLOFLUX

Applicant is the owner of registrations Nos. 88,491, 27,112, and 363,047.
FOR GLASS, PLASTIC, COMBINATIONS OF GLASS AND METAL AND PLASTIC AND METAL GLOBES AND REFLECTORS.
Claims use since July 18, 1945.

Ser. No. 489,339. MERRYWEATHER PRODUCTS COMPANY, Akron, Ohio. Filed Oct. 3, 1945.

THERMO-LITE

FOR FIREPLACE FIXTURE OR FRONT CONSISTING OF A METAL AND GLASS SCREEN FOR RADIATING HEAT.
Claims use since Aug. 25, 1945.

Ser. No. 494,086. LEKTROLITE CORPORATION, New York, N. Y. Filed Dec. 29, 1945.

LEKTROLITE

Applicant claims ownership of Nos. 405,623, 405,624, and 405,626.
FOR CIGAR, CIGARETTE, AND PIPE LIGHTERS OF THE CATALYTIC TYPE, AND PARTS FOR CIGAR, CIGARETTE, AND PIPE LIGHTERS.
Claims use since June 1, 1933.

Ser. No. 494,324. HOMELITE CORPORATION, East Port Chester, Conn. Filed Jan. 5, 1946.

HOMELITE

Applicant claims ownership of Nos. 151,508 and 257,532.
FOR GASOLINE-ENGINE-DRIVEN BLOWER UNITS FOR SUPPLYING AND EXHAUSTING AIR AND GASES AND FOR GENERAL VENTILATING PURPOSES, INCLUDING MANHOLES, GAS CONTAINERS, ETC., AND MANHOLE HEATERS UTILIZING LIQUID FUEL.
Claims use since December 1929.

Ser. No. 495,736. HAAS MANUFACTURING CO., Chicago, Ill. Filed Jan. 31, 1946.

Perma-wik

The term "Wik" is disclaimed apart from the mark as shown in the drawing.
FOR LIQUID FUEL BURNING LIGHTERS.
Claims use since Nov. 21, 1945.

Ser. No. 498,718. WENTWORTH H. SHORTLIDGE, doing business as Five-In-One Ventilator Company, Pittsburgh, Pa. Filed Mar. 21, 1946.



The representation of the device in the trade-mark and also all of the words appearing in the mark, with the exception of "5 in 1" are disclaimed apart from the mark.
FOR WINDOW VENTILATORS.
Claims use since November 1945.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 474,370. LOUIS BROMBERG, Brooklyn, N. Y. Filed Sept. 19, 1944. Under the act of February 20, 1905, as amended June 10, 1938.

MirrAconsole

FOR PIANOS.
Claims use since June 22, 1944.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 488,446. BOL, LTD., New York, N. Y. Filed Sept. 14, 1945.

MINICARD

FOR PRINTED AND OTHERWISE REPRODUCED RECORD CARDS USED IN CONNECTION WITH APPARATUS FOR CLASSIFYING AND SELECTING DATA CONTAINED ON SAID CARDS.
Claims use since Jan. 1, 1945.

Ser. No. 489,449. DANDY PUBLISHING COMPANY, New York, N. Y. Filed Oct. 5, 1945.

DANDY COMICS

Applicant disclaims the word "Comics" apart from the mark as shown.
FOR PUBLICATIONS CONTAINING CARTOONS AND COMICS, PUBLISHED FROM TIME TO TIME.
Claims use since Sept. 12, 1945.

Ser. No. 496,933. STREET & SMITH PUBLICATIONS, INC., New York, N. Y. Filed Feb. 19, 1946.

Two Weeks with Pay

FOR A COLUMN IN A PERIODICAL PUBLISHED AT INTERVALS.
Claims use since Dec. 20, 1945.

Ser No. 496,943. AMERICAN DECALCOMANIA COMPANY, INC., Chicago, Ill. Filed Feb. 20, 1946.

Trimettes

FOR DECALCOMANIAS.
Claims use since Feb. 4, 1946.

Ser. No. 497,043. S. ROSENTHAL & CO., INC., Cincinnati, Ohio. Filed Feb. 21, 1946.

jazzways

FOR PUBLICATION ISSUED PERIODICALLY, CONTAINING INFORMATION CONCERNING PEOPLE IN THE FIELD OF MUSIC.
Claims use since Feb. 1, 1946.

CLASS 39

CLOTHING

Ser. No. 474,853. INTERNATIONAL SHOE COMPANY, St. Louis, Mo. Filed Oct. 3, 1944.

IN 'N OUTER

FOR BOOTS AND SHOES OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF.
Claims use since Sept. 12, 1944.

Ser. No. 487,436. PERELES BROS. INC., Milwaukee, Wis. Filed Aug. 22, 1945.

LIFE-TIME

FOR SHOE HEELS.
Claims use since June 30, 1941.

Ser. No. 490,113. ARMAND GAGNON, Montreal, Quebec, Canada. Filed Oct. 18, 1945.

HABITANT

FOR LEATHER SHOES AND SLIPPERS.
Claims use since Mar. 1, 1945.

Ser. No. 491,118. PORTLAND FOOTWEAR CO., Portland, Maine. Filed Nov. 5, 1945.

Fancy Free

No claim is made to the word "Fancy" apart from the mark as a whole.
FOR LEATHER SHOES FOR WOMEN.
Claims use since Oct. 1, 1945.

Ser. No. 493,017. IRVING B. MILLER, doing business as Ace-Hi Hat Reducer Mfg. Co., Chicago, Ill. Filed Dec. 10, 1945.

ACE-HI

FOR HAT SIZE REDUCER IN THE NATURE OF A STRIP OF FLEXIBLE MATERIAL FOR INSERTION INSIDE A SWEAT BAND.
Claims use since Nov. 20, 1945.

Ser. No. 493,447. MONCEY PRODUCTS CORP., Chicago, Ill. Filed Dec. 17, 1945.



FOR SHOES AND BOOTS MADE OF LEATHER, FABRIC, RUBBER OR PLASTICS OR COMBINATIONS OF SAID MATERIALS.
Claims use since Sept. 9, 1945.

Ser. No. 493,653. ELIAS CAPSUTO, doing business as Well-Maid Apron Co., Chicago, Ill. Filed Dec. 21, 1945.

Cappy GARMENT

No claim is made to the word "Garment" apart from the mark.
FOR APRONS AND WOMEN'S DRESSES.
Claims use since November 1936.

Ser. No. 493,658. COGSWELL COMPANY, New York, N. Y. Filed Dec. 21, 1945. Under 10-year proviso.

Cogswell

FOR CHILDREN'S SUITS, DRESSES, PLAYSUITS, BLOUSES, SUN SUITS, AND ROMPERS.
Claims use since 1878.

Ser. No. 494,424. BLUE RIDGE MANUFACTURERS, INCORPORATED, Baltimore, Md. Filed Jan. 8, 1946.

BLUE RIDGE

No claim is made to the word "Blue" apart from the mark as shown in the drawing.
FOR OVERALLS, WORK PANTS, DUNGAREES, BIB OVERALLS, COVERALLS, AND JACKETS.
Claims use since 1899.

Ser. No. 494,626. THE PERRY KNITTING COMPANY, Perry, N. Y. Filed Jan. 11, 1946.

Sleep-A-Wyle

No claim is made to the exclusive use of the word "Sleep" apart from the mark as shown in the drawing.
FOR SLEEPING GARMENTS FOR INFANTS, CHILDREN, AND MISSES.
Claims use since Aug. 15, 1940.

Ser. No. 494,898. GLOBE KNITWEAR CO., Philadelphia, Pa. Filed Jan. 17, 1946.

Debby Darling

FOR SWEATERS.
Claims use since July 5, 1945.

Ser. No. 495,905. REEVES BROTHERS, INC., New York, N. Y. Filed Feb. 2, 1946.

REEVEKING

FOR WORK SHIRTS, PANTS, WORK COATS AND SUITS FOR MEN AND BOYS.
Claims use since Dec. 31, 1938.

Ser. No. 496,151. PETER PAN MANUFACTURING CO., Boston, Mass. Filed Feb. 7, 1946.

"PRIDE'N'JOY"

FOR INFANTS' AND CHILDREN'S OVERALLS, COVERALLS, "CRAWLERS," AND PLAYSUITS.
Claims use since Jan. 8, 1946.

Ser. No. 499,079. FELIX SAFIAN, New York, N. Y. Filed Mar. 27, 1946.

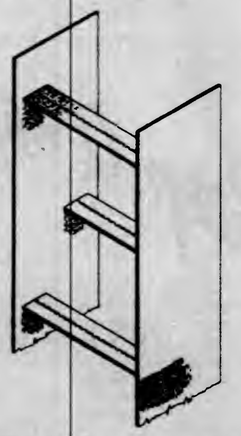
A TEEN RAGE ORIGINAL

The words "Teen" and "Original" are disclaimed apart from the mark as shown.
FOR MISSES' AND JUNIOR MISSES' DRESSES, DRESS AND JACKET ENSEMBLES, JACKETS, SLACKS, SWEATERS, SKIRTS, BLOUSES, JUMPERS, COATS, AND SUITS.
Claims use since Feb. 26, 1945.

CLASS 40

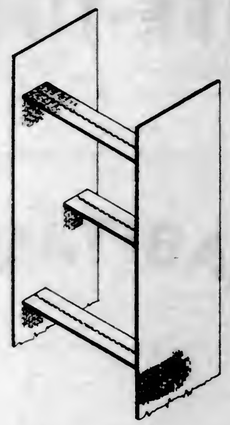
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 494,329. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Jan. 5, 1946.



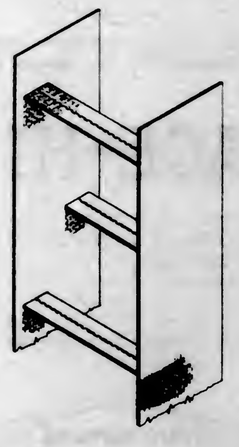
No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a single stripe in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, said stripe running longitudinally of the cross straps, said stripe being located centrally of said cross straps and being readily visible black warp thread or threads, distinctive from the color of the cross straps.
FOR SUPPORT FOR VENETIAN BLIND SLATS.
Claims use since Sept. 7, 1937.

Ser. No. 494,330. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Jan. 5, 1946.



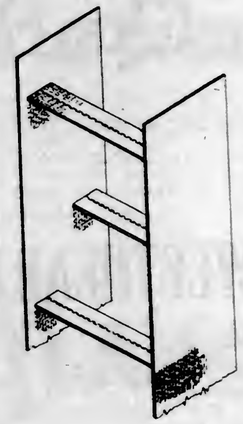
No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a single stripe in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, said stripe running longitudinally of the cross straps, said stripe being located centrally of said cross straps and being readily visible blue warp thread or threads, distinctive from the color of the cross straps.
FOR SUPPORT FOR VENETIAN BLIND SLATS.
Claims use since Sept. 7, 1937.

Ser. No. 494,331. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Jan. 5, 1946.



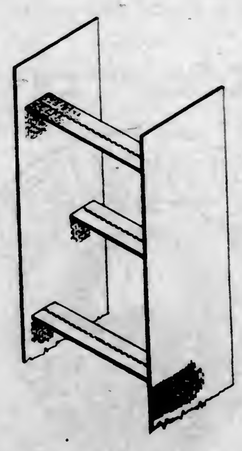
No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a single stripe in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, said stripe running longitudinally of the cross straps, said stripe being located centrally of said cross straps and being readily visible chocolate warp thread or threads, distinctive from the color of the cross straps.
FOR SUPPORT FOR VENETIAN BLIND SLATS.
Claims use since Sept. 7, 1937.

Ser. No. 494,332. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Jan. 5, 1946.



No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a single stripe in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, said stripe running longitudinally of the cross straps, said stripe being located centrally of said cross straps and being readily visible blue warp thread or threads, distinctive from the color of the cross straps.
FOR SUPPORT FOR VENETIAN BLIND SLATS.
Claims use since Sept. 7, 1937.

Ser. No. 494,333. INTERNATIONAL BRAID COMPANY, Providence, R. I. Filed Jan. 5, 1946.



No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a single stripe in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, said stripe running longitudinally of the cross straps, said stripe being located centrally of said cross straps and being readily visible red warp thread or threads, distinctive from the color of the cross straps.
FOR SUPPORT FOR VENETIAN BLIND SLATS.
Claims use since Sept. 7, 1937.

Ser. No. 494,498. THOMAS FRENCH & SONS, LTD., New York, N. Y. Filed Jan. 9, 1946.



No claim is made to the exclusive use of the representation of the goods per se. The trade-mark consists of a pair of stripes in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, both of said stripes running longitudinally of the cross straps, each of said stripes being adjacent, respectively, to one of the side edges of said cross straps, each of said stripes being readily visible blue warp thread or threads, distinctive from the other warp threads of the cross straps.
FOR LADDER WEB FOR VENETIAN BLINDS.
Claims use since May 5, 1938.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS AND SUBSTITUTES THEREFOR

Ser. No. 487,819. BELGRADE FABRICS, INC., New York, N. Y. Filed Aug. 31, 1945.

BUNALITE

FOR SYNTHETIC RUBBER COATED COTTON TEXTILE FABRICS IN THE PIECE.
Claims use since Aug. 6, 1945.

Ser. No. 494,894. DROMONA & MAINE LIMITED, Cullybackey, Northern Ireland. Filed Jan. 17, 1946.

MADROFIN

FOR COTTON AND LINEN PIECE GOODS.
Claims use since June 28, 1943.

Ser. No. 495,689. PACIFIC MILLS, Boston, Mass., and New York, N. Y. Filed Jan. 30, 1946.

"PACIFIXED"

FOR WOOLEN FABRICS IN THE PIECE.
Claims use since Jan. 22, 1946.

Ser. No. 495,907. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed Feb. 2, 1946.

CONTACT

FOR PIECE GOODS OF COTTON, RAYON, WOOL, OR MIXTURES THEREOF.
Claims use since Jan. 5, 1946.

Ser. No. 495,908. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed Feb. 2, 1946.

SOMBRERO

FOR PIECE GOODS OF COTTON, RAYON, WOOL, OR MIXTURES THEREOF.
Claims use since Jan. 5, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 491,224. WILMINGTON HOSIERY MILLS, INC., Wilmington, Del. Filed Nov. 7, 1945.

IRONYON

FOR NYLON YARN.
Claims use since Oct. 27, 1945.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 494,564. MIKE KRAFT, doing business as Vitabev Bottling Co., Philadelphia, Pa. Filed Jan. 10, 1946.

VITABEV

FOR NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK.
Claims use since Aug. 3, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 475,396. SHIMPEI NAGAO, doing business as Soya Bean Products Company, Garland, Utah. Filed Oct. 17, 1944.

HANAMURASAKI

The Japanese word "Hanamurasaki" means "purple flower."
FOR SOYA BEAN SAUCE.
Claims use since Dec. 1, 1940.

Ser. No. 476,197. WILLARD B. CASTERLINE, doing business as Dr. Quack Candy Co., Chicago, Ill. Filed Nov. 7, 1944.

Dr. Quack's

FOR CANDY.
Claims use since Aug. 30, 1944.

Ser No. 488,220. ED. HARTER, INC., Toledo, Ohio. Filed Sept. 10, 1945.

SWEETHEART

FOR CANDIES.
Claims use since Feb. 24, 1905.

Ser. No. 490,000. R. F. WILLEY, doing business as Georgie Porgie Company, Council Bluffs, Iowa. Filed Oct. 15, 1945.

Georgie Porgie

Applicant is the owner of trade-mark registration No. 256,740, dated May 21, 1929.
FOR CEREAL BREAKFAST FOODS AND POPCORN IN ITS NATURAL STATE.
Claims use since Aug. 20, 1928.

Ser. No. 490,067. KLINK CITRUS ASSOCIATION, Ivanhoe, Calif. Filed Oct. 17, 1945.



Applicant is the owner of Reg. No. 238,387. No claim is made to the exclusive use of the word "Brand."
FOR FRESH CITRUS FRUITS.
Claims use since about 1928; and on the word "Honey" in a generally similar association with the design shown on the drawing, since Oct. 1, 1910.

Ser. No. 493,890. THE MIDLAND GROCERY COMPANY, Columbus, Ohio. Filed Dec. 26, 1945.

Clarion

FOR CANNED FRUITS AND VEGETABLES, CANNED FISH, CANNED SOUP, FRUIT PRESERVES, COFFEE, SPICES, MINCE MEAT, PICKLES, OLIVES, SALAD DRESSING, VINEGAR, TABLE SYRUP, SALT, CATSUP, BREAKFAST CEREALS, MUSTARD, AND PEANUT BUTTER.
Claims use since Oct. 8, 1945.

Ser. No. 496,233. MAURICE GOLDMAN, doing business as Alan's Baking Co., Utica, N. Y. Filed Feb. 8, 1946.

ALAN'S

SHOE TAPS

FOR COOKIES.
Claims use since June 1943.

Ser. No. 496,427. CITRUS FOODS CO., INC., La Habra, Calif. Filed Feb. 12, 1946.

SWEETACRES

FOR FROZEN LEMON JUICE FOR FOOD PURPOSES.
Claims use since Jan. 12, 1946.

Ser. No. 598,646. R. G. MOENCH & CO., INC., New York, N. Y. Filed Mar. 20, 1946.

POLYCOID

FOR EDIBLE POWDERED MIXTURE FOR USE IN THE MANUFACTURE OF FROZEN CONFECTIONS.
Claims use since Dec. 27, 1945.

Ser. No. 498,647. R. G. MOENCH & CO., INC., New York, N. Y. Filed Mar. 20, 1946.

SHERACOID

FOR EDIBLE POWDERED MIXTURE FOR USE IN THE MANUFACTURE OF FROZEN CONFECTIONS.
Claims use since Dec. 27, 1945.

Ser. No. 498,658. SOUTHERN CANNING COMPANY, LTD., Houston, Tex. Filed Mar. 20, 1946.

SANDY

FOR CANNED DOG FOOD.
Claims use since Dec. 1, 1945.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 479,534. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 7, 1945.

FARM MASTER

The word "Farm" is disclaimed apart from the mark. The portrait is fanciful.
FOR NEST EGGS, PORTABLE STOCK AND POULTRY FEEDERS AND WATERERS, ELECTRICALLY HEATED PORTABLE WATER FOUNTAINS, AND COOPS.
Claims use since July 15, 1940, on portable stock and poultry feeders and waterers, and electrically heated portable water fountains; since Jan. 15, 1941, on coops; and since July 15, 1941, on nest eggs.

Ser. No. 487,912. ROSE R. MENDELSOHN, doing business as National Novelties, Chicago, Ill. Filed Sept. 1, 1945.

ENCHANTress

FOR COLD WAVE KITS CONSISTING OF NEUTRALIZER SOLUTION, WAVE SET CONCENTRATE, COLD PERMANENT WAVE SOLUTION, CREME SHAMPOO, CURLERS, STICKS FOR APPLICATORS, AND CURL PAPERS.
Claims use since July 2, 1945.

Ser. No. 489,146. REFLECTO LETTERS CO., New York, N. Y. Filed Sept. 28, 1945.

PERMA-GLOW

The word "Glow" is disclaimed except in connection with the mark as a whole.
FOR LUMINOUS LETTERS AND NUMBERS HAVING PRISMATIC GLASS OR PLASTIC LENSES THEREIN CAPABLE OF REFLECTING LIGHT.
Claims use since Sept. 18, 1945.

Ser. No. 497,055. TINGUE, BROWN & CO., New York, N. Y. Filed Feb. 21, 1946.

KORKER

FOR PRINTING PRESS BLANKETS.
Claims use since Sept. 21, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 6, 1946

422,610. ASPHALT COMPOSITION IN THE NATURE OF PAINT ADAPTED TO BE USED ON METALS, WOODS, TIMBER, ETC. STANDARD DEVELOPMENT CORPORATION, New York, N. Y.
Filed September 23, 1944. Serial No. 474,554. PUBLISHED MAY 14, 1946. Class 16.

422,611. COOKED HAMS, COOKED SHOULDERS, COOKED PICNICS, COOKED PORK LOINS, COOKED PORK FILLETS, ETC. THE TUPMAN THURLOW SALES CO., INC., New York, N. Y., assignor to A/S L. E. Bruun Export, Copenhagen, Denmark, a joint-stock company of Denmark.
Filed July 2, 1941. Serial No. 445,024. PUBLISHED MAY 7, 1946. Class 46.

422,612. CANNED OLIVES. SAFEWAY STORES, INC., OF NEVADA, Reno, Nev., and Oakland, Calif., assignor to Safeway Stores, Incorporated, Oakland, Calif., a corporation of Maryland.
Filed October 31, 1942. Serial No. 456,569. PUBLISHED MAY 7, 1946. Class 46.

422,613. TOGGLE CLAMPS, TOGGLE PLIERS, MECHANICAL ARBOR SPACERS, FIXTURES COMPRISING MEANS TO SECURE SEVERAL COMPONENT PARTS IN PREDETERMINED POSITION DURING ASSEMBLY OF SUCH COMPONENTS, ETC. DETROIT STAMPING COMPANY, Detroit, Mich.
Filed February 6, 1943. Serial No. 458,364. PUBLISHED MAY 7, 1946. Class 23.

422,614. WATCHES AND PARTS THEREOF. MANUFACTURE DES MONTRES UNIVERSAL PERRET ET BERTHOUD S. A. (UNIVERSAL WATCH FACTORY, PERRET & BERTHOUD, LTD.), Geneva, Switzerland.
Filed July 31, 1943. Serial No. 462,418. PUBLISHED APRIL 30, 1946. Class 27.

422,615. "JERSETTE" RAYON PRINT MATERIALS. ARTHUR S. HEIMAN, INC., New York, N. Y.
Filed November 11, 1943. Serial No. 464,921. PUBLISHED JANUARY 14, 1944. Class 42.

422,616. ELECTRIC STOCK PRODS AND ELECTRIC WATER HEATERS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 17, 1943, Serial No. 465,081. PUBLISHED MAY 7, 1946. Class 21.

422,617. CAMERAS, MOTION PICTURE CAMERAS, SENSITIZED PHOTOGRAPHIC FILMS, OPTICAL REDUCTION PRINTERS, AND MOTION PICTURE PROJECTING APPARATUS. NATURAL VISION EQUIPMENT CORPORATION, New York, N. Y.
Filed December 17, 1943. Serial No. 465,847. PUBLISHED MAY 14, 1946. Class 26.

422,618. STANDARD REFRACTORY BRICK. GENERAL REFRACTORIES COMPANY, Philadelphia, Pa.
Filed January 3, 1944. Serial No. 466,282. PUBLISHED MAY 14, 1946. Class 12.

422,619. AIRPLANES AND AIRPLANE PARTS. DURAMOLD AIRCRAFT CORPORATION, Dover, Del., and New York, N. Y.
Filed January 6, 1944. Serial No. 466,345. PUBLISHED APRIL 30, 1946. Class 19.

422,620. LUBRICATING OIL FOR ADDITION TO GASOLINE, FUEL OIL, OR CYLINDER OIL TO PREVENT STICKING VALVES AND TO REDUCE GUM, WAX, AND VARNISH FORMATION. ARCHIE T. STRATTON, doing business as Automotive Products DISTRIBUTOR, LTD., Cleveland, Ohio.
Filed February 28, 1944. Serial No. 467,823. PUBLISHED MAY 7, 1946. Class 15.

422,621. CANNED FRUITS, CANNED VEGETABLES, CANNED TOMATO PASTE, AND CANNED TOMATO SAUCE. SUN GARDEN PACKING CO., San Jose, Calif.
Filed March 20, 1944. Serial No. 468,480. PUBLISHED MAY 7, 1946. Class 46.

422,622. TEXTILE FABRICS IN THE PIECE OF COTTON, SILK, FAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF OF A CHARACTER ADAPTED FOR PERSONAL WEAR. BENROSE FABRICS CORPORATION, New York, N. Y.
Filed April 8, 1944. Serial No. 469,145. PUBLISHED MAY 1, 1945. Class 42.

422,623. FISHING LINES. SUNSET LINE & TWINE CO., San Francisco, Calif.
Filed June 8, 1944. Serial No. 471,059. PUBLISHED MAY 14, 1946. Class 22.

422,624. AIR ELIMINATING DEVICE FOR FACILITATING SEPARATION OF AIR FROM WATER IN CLOSED HOT WATER HEATING SYSTEMS, ETC. BELL & GOSSETT COMPANY, Morton Grove, Ill.
Filed July 22, 1944. Serial No. 472,498. PUBLISHED MAY 14, 1946. Class 34.

422,625. PIECE GOODS OF WOOL, COTTON, SILK, RAYON AND MIXTURES THEREOF, IN THE NATURE OF UPHOLSTERY FABRICS. THE HENROSE CO. INC., New York, N. Y.
Filed September 30, 1944. Serial No. 474,751. PUBLISHED FEBRUARY 13, 1945. Class 42.

422,626. PORTABLE POWER-DRIVEN BELT CONVEYING APPARATUS. COALTOTER CONVEYER C[illegible], Chicago, Ill.
Filed October 30, 1944. Serial No. 475,837. PUBLISHED MAY 7, 1946. Class 23.

422,627. RAYON PIECE GOODS. DAVID CRYSTAL, INC., New York, N. Y.
Filed November 1, 1944. Serial No. 475,946. PUBLISHED FEBRUARY 27, 1945. Class 42.

422,628. ELECTRICAL STORAGE BATTERIES FOR MARINE, TRUCK AND AUTOMOTIVE VEHICLES, DIESEL STARTING BATTERIES, ETC. SURRETTE STORAGE BATTERY CO., INC., Salem, Mass.
Filed November 29, 1944. Serial No. 477,045. PUBLISHED MAY 7, 1946. Class 21.

422,629. SPECIAL MACHINES—NAMELY, CHAIN MANUFACTURING MACHINES; METAL BENDING MACHINES FOR FABRICATING CABINETS AND THE LIKE, MACHINES FOR MOLDING OR EXTRUDING ARTICLES FROM PLASTIC MATERIAL; MACHINES FOR MAKING PRICE TAGS; AND MACHINES FOR APPLYING TABS TO PHOTOGRAPH MOUNTINGS. DESIGNERS FOR INDUSTRY, INC., Cleveland, Ohio.
Filed December 1, 1944. Serial No. 477,101. PUBLISHED MAY 7, 1946. Class 23.

422,630. LAUNDRY EQUIPMENT—NAMELY, DOMESTIC WASHING MACHINES. APPLIANCE MANUFACTURING COMPANY, Alliance, Ohio.
Filed December 22, 1944. Serial No. 477,832. PUBLISHED MAY 7, 1946. Class 24.

422,631. FASTENINGS OF THE FOLLOWING NATURE: SCREWS—WOOD, LAG, CAP, DRIVE, SIDE KNOB, MACHINE, LOCK CAP, WASHER HEAD, SOCKET HEAD, HARDENED THREAD-FORMING SHEET METAL, THUMB AND SET; BOLTS OF THE FOLLOWING NATURE: HOOK, SINK, STOVE, HANGER, FIN HEAD, METER, CARRIAGE, MACHINE, ETC. CONTINENTAL SCREW COMPANY, New Bedford, Mass.
Filed December 27, 1944. Serial No. 477,971. PUBLISHED MAY 7, 1946. Class 13.

422,632. AUTOMOTIVE EXPRESS VEHICLE BODIES; BOATS FOR ROWING, SAILING, AND MOTOR PROPELLED USE; BARGES; TANK VEHICLE BODIES AND TANK TRAILERS. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed January 11, 1945. Serial No. 478,497. PUBLISHED MAY 14, 1946. Class 19.

422,633. PIECE GOODS OF RAYON, WOOL, AND/OR COTTON. STONECUTTER MILLS CORPORATION, Spindale, N. C.
Filed January 18, 1945. Serial No. 478,770. PUBLISHED MARCH 26, 1946. Class 42.

422,634. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,196. PUBLISHED MAY 7, 1946. Class 42.

422,635. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,197. PUBLISHED MAY 7, 1946. Class 42.

422,636. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,200. PUBLISHED APRIL 16, 1946. Class 42.

422,637. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,201. PUBLISHED APRIL 16, 1946. Class 42.

422,638. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,206. PUBLISHED MAY 7, 1946. Class 42.

422,639. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,207. PUBLISHED APRIL 16, 1946. Class 42.

422,640. SHEETS, SHEETING, AND PILLOWCASES. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed January 30, 1945. Serial No. 479,212. PUBLISHED APRIL 16, 1946. Class 42.

422,641. MILK COOLERS AND MILK FILTER DISCS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 7, 1945. Serial No. 479,533. PUBLISHED MAY 14, 1946. Class 31.

422,642. HYDRAULIC RUBBER PRESSES, HOSE-MAKING MACHINES, RUBBER CALENDERS, RUBBER MIXERS, ETC. FARREL-BIRMINGHAM COMPANY, INCORPORATED, Ansonia, Conn.
Filed March 22, 1945. Serial No. 481,180. PUBLISHED MAY 7, 1946. Class 23.

422,643. COATED AND UNCOATED FIBRE BASE COMPOSITION BOARDS AND PANELS. ARVEY CORPORATION, Chicago, Ill., and Detroit, Mich.
Filed April 2, 1945. Serial No. 481,603. PUBLISHED MAY 14, 1946. Class 12.

422,644. PLASTIC SHEET MATERIAL IN THE NATURE OF A LEATHER SUBSTITUTE. RAND RUBBER COMPANY, Brooklyn, N. Y.
Filed April 13, 1945. Serial No. 482,119. PUBLISHED MAY 7, 1946. Class 50.

422,645. HAIR BRUSHES. EMPIRE BRUSH WORKS, Port Chester, N. Y.
Filed April 24, 1945. Serial No. 482,525. PUBLISHED MAY 14, 1946. Class 29.

422,646. HAIR BRUSHES. EMPIRE BRUSH WORKS, Port Chester, N. Y.
Filed April 24, 1945. Serial No. 482,526. PUBLISHED MAY 14, 1946. Class 29.

422,647. DEGREASERS, I. E., APPARATUS FOR CIRCULATING A SOLVENT AND/OR SOLVENT VAPOR OVER GREASE LADEN ARTICLES, ETC. CIRCO PRODUCTS COMPANY, Cleveland, Ohio.
Filed April 26, 1945. Serial No. 482,611. PUBLISHED MAY 7, 1946. Class 23.

422,648. DEGREASERS, I. E., APPARATUS FOR CIRCULATING A SOLVENT AND/OR SOLVENT VAPOR OVER GREASE LADEN ARTICLES, ETC. CIRCO PRODUCTS COMPANY, Cleveland, Ohio.
Filed April 26, 1945, Serial No. 482,612. PUBLISHED MAY 14, 1946. Class 23.

422,649. MOTION PICTURE FILMS CARRYING SOUND RECORDINGS. WILLIAM LEVINE, doing business as William Vine, Los Angeles, Calif.
Filed May 7, 1945, Serial No. 483,073. PUBLISHED MAY 7, 1946. Class 26.

422,650. PLASTIC TRAYS—NAMELY, UTILITY TRAYS, SANDWICH TRAYS, PLASTIC COASTERS, PLASTIC BOWLS, ETC. SYRACUSE ORNAMENTAL CO., Syracuse, N. Y.
Filed May 11, 1945. Serial No. 483,240. PUBLISHED MAY 7, 1946. Class 2.

422,651. FRESH CITRUS FRUITS. LAKE HAMILTON CO-OPERATIVE, INC., Lake Hamilton, Fla.
Filed May 18, 1945. Serial No. 483,535. PUBLISHED MAY 7, 1946. Class 46.

422,652. SOUND RECORDING AND SOUND REPRODUCING EQUIPMENT—NAMELY, AN ELECTRICAL APPARATUS FOR RECORDING OR REPRODUCING SOUND OR OTHER SIGNALS UPON WIRE, ETC. UTAH RADIO PRODUCTS COMPANY, Chicago, Ill., assignor to International Detrola Corporation, Detroit, Mich., a corporation of Indiana
Filed May 24, 1945. Serial No. 483,750. PUBLISHED MAY 7, 1946. Class 21.

422,653. ROTARY VACUUM PUMPS. RITE-WAY PRODUCTS COMPANY, Chicago, Ill.
Filed May 28, 1945. Serial No. 483,874. PUBLISHED MAY 14, 1946. Class 23.

422,654. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF. ALBERT H. VANDAM CO., INC., New York, N. Y.
Filed June 8, 1945. Serial No. 484,331. PUBLISHED MAY 7, 1946. Class 42.

422,655. YARN WINDING FRAMES FOR USE IN THE HAND FABRICATION OF YARN MADE ARTICLES SUCH AS ANIMALS, FLOWERS, AND THE LIKE. UNIVERSAL HANDICRAFTS SERVICE INC., New York, N. Y.
Filed June 30, 1945. Serial No. 485,310. PUBLISHED MAY 7, 1946. Class 23.

422,656. WOVEN OR OTHER FABRICS IN STRIPS, SHEETS, OR CONTINUOUS ROLLS, HAVING ONE SURFACE PROCESSED TO PRESENT A LEATHER LIKE SURFACE. LEONARD FREEDMAN & SONS, New York, N. Y.
Filed July 3, 1945. Serial No. 485,404. PUBLISHED MAY 7, 1946. Class 50.

422,657. CENTRIFUGAL CASTING MACHINES FOR MAKING SMALL INTRICATE CASTINGS SUCH AS JEWELRY AND NOVELTIES. WILLIAM T. ANDERSON, doing business as Indianapolis Dental Specialty Co., Indianapolis, Ind.
Filed July 5, 1945. Serial No. 485,469. PUBLISHED MAY 14, 1946. Class 23.

422,658. VAPOR OIL, COAL SPRAY OIL, FUEL OIL, AND BURNER OIL. STANDARD OIL COMPANY, Louisville, Ky.
Filed July 10, 1945. Serial No. 485,662. PUBLISHED MAY 7, 1946. Class 15.

422,659. BATHTUBS, PORTABLE SHOWERS, SHOWER RECEPTORS, AND LAUNDRY TRAYS. HENRY GROSSMAN, doing business as Commonwealth Products Company, Philadelphia, Pa.
Filed July 14, 1945. Serial No. 485,817. PUBLISHED MAY 7, 1946. Class 13.

422,660. GOLF BALLS. MCDONALD & SON GOLF BALL CO., West Chicago, Ill.
Filed July 20, 1945. Serial No. 486,051. PUBLISHED MAY 14, 1946. Class 22.

422,661. GOLF BALLS. MCDONALD & SON GOLF BALL CO., West Chicago, Ill.
Filed July 20, 1945. Serial No. 486,052. PUBLISHED MAY 14, 1946. Class 22.

422,662. HAND OPERATED CUTTING TOOL COMPRISED OF A DISC-LIKE HANDLE AND A RAZOR BLADE. H. R. BASFORD CO., San Francisco, Calif.
Filed July 23, 1945. Serial No. 486,136. PUBLISHED MAY 14, 1946. Class 23.

422,663. POWDER BASE FOR MAKING IMITATION BANANA FLAVORED PUDDING. IMPROVED PRODUCTS, INCORPORATED, Culver City, Calif.
Filed July 27, 1945. Serial No. 486,372. PUBLISHED MAY 14, 1946. Class 46.

422,664. BROOCHES, EARRINGS, PINS, BRACELETS, LOCKETS, PENDANTS, AND NECKLACES, ALL MADE OF PRECIOUS AND SEMI-PRECIOUS METAL. PAUL R. FREID, doing business as Associated Manufacturers, Providence, R. I.
Filed August 6, 1945. Serial No. 486,762. PUBLISHED MAY 14, 1946. Class 28.

422,665. OLEOMARGARINE. JOHN F. JELKE COMPANY, Chicago, Ill.
Filed August 6, 1945. Serial No. 486,785. PUBLISHED MAY 14, 1946. Class 46.

422,666. OIL WELL TOOLS—NAMELY, KNUCKLE JOINTS FOR WELL DRILLING AND SELF-ORIENTING DEFLECTING TOOLS FOR WELL DRILLING. EASTMAN OIL WELL SURVEY COMPANY, Denver, Colo.
Filed August 13, 1945. Serial No. 487,075. PUBLISHED MAY 7, 1946. Class 23.

422,667. WOVEN WOOLLEN PIECE GOODS OF PURE NEW WOOL. LOWE, DONALD AND COMPANY, LIMITED, Peebles, Scotland.
Filed August 13, 1945. Serial No. 487,088. PUBLISHED FEBRUARY 26, 1946. Class 42.

422,668. HYDRAULIC OPERATED UNITS FOR RAISING OR TILTING TRUCK BODIES TO EFFECT DUMPING. ST. PAUL HYDRAULIC HOIST COMPANY, Minneapolis, Minn.
Filed August 23, 1945. Serial No. 487,487. PUBLISHED MAY 14, 1946. Class 23.

422,669. ELECTRIC STOVES, ELECTRIC FOOD TABLES, ELECTRIC COFFEE URNS, AND ELECTRIC FOOD WARMERS. DOHRMANN HOTEL SUPPLY CO., San Francisco, Calif.
Filed August 27, 1945. Serial No. 487,601. PUBLISHED MAY 14, 1946. Class 21.

422,670. CAMERAS, PHOTO PRINTING FRAMES AND BOXES, PHOTO TRIMMING BOARDS, PHOTO ENLARGERS, AND FILM DEVELOPING TANKS. HECKETHORN MANUFACTURING & SUPPLY CO., Littleton, Colo.
Filed August 27, 1945. Serial No. 487,619. PUBLISHED MAY 7, 1946. Class 26.

422,671. FINGER RINGS. A. HIRSCH COMPANY, Chicago, Ill.
Filed August 27, 1945. Serial No. 487,620. PUBLISHED MAY 14, 1946. Class 28.

422,672. SEMI-TRAILERS AND FULL TRAILERS. ROBERT W. POINTER, doing business as Pointer-Willamette Company, Portland, Oreg.
Filed September 11, 1945. Serial No. 488,284. PUBLISHED MAY 14, 1946. Class 19.

422,673. MATTRESSES AND BOX SPRINGS. FORT PITT BEDDING COMPANY, Pittsburgh, Pa., assignor to The Englander Co., Inc., Chicago, Ill.
Filed September 15, 1945. Serial No. 488,517. PUBLISHED MAY 14, 1946. Class 32.

422,674. MATTRESSES AND BOX SPRINGS. FORT PITT BEDDING COMPANY, Pittsburgh, Pa., assignor to The Englander Co., Inc., Chicago, Ill.
Filed September 15, 1945. Serial No. 488,520. PUBLISHED MAY 14, 1946. Class 32.

422,675. OIL BURNERS FOR FURNACES FOR HOME AND INDUSTRIAL BOILERS. INDEPENDENT OIL BURNER CORP., Jamaica, N. Y.
Filed September 19, 1945. Serial No. 488,694. PUBLISHED MAY 14, 1946. Class 34.

422,676. MACHINE CUTTING TOOLS OF THE TYPE OF COUNTERBORES AND COUNTERSINKS. PAUL LEO, doing business as Precision Mechanical Laboratory, New York, N. Y.
Filed September 20, 1945. Serial No. 488,763. PUBLISHED MAY 7, 1946. Class 23.

422,677. NON-ABRASIVE KNIFE SHARPENER AND A COMBINATION KITCHEN TOOL, INCLUDING A CAN SPOUTER OR OPENER, ETC. RUDOLPH BOETTINGER, doing business as J. Randolph & Co., Englewood, N. J.
Filed September 22, 1945. Serial No. 488,846. PUBLISHED MAY 7, 1946. Class 23.

422,678. BIRD CALLS. CONSTANT ALPHONSE OLIVEROS, doing business as Oliveros Manufacturing Co., Houston, Tex.
Filed September 27, 1945. Serial No. 489,082. PUBLISHED MAY 14, 1946. Class 22.

422,679. TRACTOR MOUNTED LOADERS AND STACKERS. SUPERIOR SEPARATOR COMPANY, Minneapolis, Minn.
Filed October 4, 1945. Serial No. 489,422. PUBLISHED MAY 14, 1946. Class 23.

422,680. TEXTILE PIECE GOODS. BALSTONE, COOKE & RAYONESE LIMITED, Manchester, England.
Filed October 5, 1945. Serial No. 489,433. PUBLISHED MARCH 26, 1946. Class 42.

422,681. BLEND OF CANE SYRUP AND CORN SYRUP FOR TABLE USE. HALL GRAIN COMPANY, New Iberia, La.
Filed October 8, 1945. Serial No. 489,582. PUBLISHED MAY 7, 1946. Class 46.

422,682. FISHING LINES. RAIN-BEAU PRODUCTS COMPANY, Canton, Mass.
Filed October 9, 1945. Serial No. 489,678. PUBLISHED MAY 14, 1946. Class 22.

422,683. CANNED SOUPS. SCHUCKL & CO., INC., doing business as Sunnyvale Packing Co., Sunnyvale, Calif.
Filed October 16, 1945. Serial No. 490,034. PUBLISHED MAY 7, 1946. Class 46.

422,684. LINKS MADE FROM PRECIOUS AND SEMI-PRECIOUS METAL AND ADAPTED TO FORM PARTS OF BRACELETS AND THE LIKE. N. WYCKOFF, doing business as Engravocraft Company, Chicago, Ill.
Filed October 20, 1945. Serial No. 490,274. PUBLISHED APRIL 30, 1946. Class 28.

422,685. HYDRAULIC JACKS AND CYLINDERS AND RAMS. MARCH ENGINEERING COMPANY, Oshkosh, Wis.
Filed October 26, 1945. Serial No. 490,541. PUBLISHED MAY 14, 1946. Class 23.

422,686. RIBBONS, IN THE PIECE AND BY THE YARD. UNIVERSAL RIBBON COMPANY, New York, N. Y.
Filed November 8, 1945. Serial No. 491,295. PUBLISHED APRIL 23, 1946. Class 42.

422,687. CANNED BEAN SPROUT CHOP SUEY VEGETABLES AND CANNED BEAN SPROUTS. BEAN SPROUT GROWERS' ASSOCIATION, Duluth, Minn.
Filed November 9, 1945. Serial No. 491,308. PUBLISHED MAY 7, 1946. Class 46.

422,688. CAMERA ATTACHMENTS AND ACCESSORIES—NAMELY, PHOTOFLASH-SYNCHRONIZERS; REFLECTORS; RELAYS, ETC. THE KALART COMPANY INC., Stamford, Conn.
Filed November 14, 1945. Serial No. 491,575. PUBLISHED MAY 7, 1946. Class 26.

422,689. COSTUME JEWELRY. BYCK BROS. & COMPANY, INCORPORATED, Louisville, Ky.
Filed November 15, 1945. Serial No. 491,624. PUBLISHED MAY 7, 1946. Class 28.

422,690. COLLAR STAYS MADE OF SEMI-PRECIOUS METAL. CREST SPECIALTY, NOT INC., Chicago, Ill.
Filed November 19, 1945. Serial No. 491,807. PUBLISHED MAY 7, 1946. Class 28.

422,691. WATERPROOF SHIPPING BAGS OF COMPOSITE MATERIAL USUALLY FABRIC LINED WITH ONE OR MORE LAYERS OF PAPER, ETC. BEMIS BRO. BAG COMPANY, St. Louis, Mo.
Filed November 21, 1945. Serial No. 491,961. PUBLISHED MAY 14, 1946. Class 2.

422,692. HACK SAW BLADES. G. W. GRIFFIN CO., Franklin, N. H.
Filed November 23, 1945. Serial No. 492,042. PUBLISHED MAY 7, 1946. Class 23.

422,693. OVERHEAD ELECTRIC TRAVELING-TRUCK HOISTS. R. R. HOWELL CO., Minneapolis, Minn.
Filed November 23, 1945. Serial No. 492,051. PUBLISHED MAY 7, 1946. Class 23.

422,694. SUGAR. MUKAMAL COMPANY, New York, N. Y.
Filed November 23, 1945. Serial No. 492,081. PUBLISHED MAY 7, 1946. Class 46.

422,695. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF. CREST FABRICS CORP., New York, N. Y.
Filed November 26, 1945. Serial No. 492,181. PUBLISHED APRIL 30, 1946. Class 42.

422,696. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES AND MIXTURES THEREOF. YALE FABRICS CORP., New York, N. Y.
Filed November 26, 1945. Serial No. 492,244. PUBLISHED APRIL 30, 1946. Class 42.

422,697. PORTABLE HAND FIRE EXTINGUISHERS. SECUTITY PRODUCTS CORPORATION, Plainfield, N. J.
Filed November 27, 1945. Serial No. 492,283. PUBLISHED MAY 14, 1946. Class 23.

422,698. PORTABLE HAND FIRE EXTINGUISHERS. SECURITY PRODUCTS CORPORATION, Plainfield, N. J.
Filed November 27, 1945. Serial No. 492,284. PUBLISHED MAY 14, 1946. Class 23.

422,699. WOOLEN FABRICS IN THE PIECE. PACIFIC MILLS, Boston, Mass., and New York, N. Y.
Filed November 28, 1945. Serial No. 492,335. PUBLISHED APRIL 30, 1946. Class 42.

422,700. TEXTILE FABRICS IN THE PIECE, OF WOOL, WORSTED, COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF. B. W. HARRIS MANUFACTURING CO., INC., St. Paul, Minn.
Filed November 29, 1945. Serial No. 492,374. PUBLISHED MAY 14, 1946. Class 42.

422,701. WATCH BRACELETS, NOT INCLUDING WATCHES. SPEIDEL CORPORATION, Providence, R. I.
Filed November 29, 1945. Serial No. 492,402. PUBLISHED MAY 14, 1946. Class 28.

422,702. STORAGE BATTERIES. READING BATTERIES, INC., Reading and Temple, Pa.
Filed November 30, 1945. Serial No. 492,463. PUBLISHED MAY 7, 1946. Class 21.

422,703. CHARCOAL BROILERS. UNITED ADVERTISING CORPORATION, New Haven, Conn.
Filed December 3, 1945. Serial No. 492,599. PUBLISHED MAY 14, 1946. Class 34.

422,704. PYROPHORIC CIGARETTE LIGHTERS. SPRING TOOL AND MACHINE CO., New York, N. Y.
Filed December 4, 1945. Serial No. 492,664. PUBLISHED MAY 14, 1946. Class 34.

422,705. PIECE GOODS OF COTTON, RAYON, WOOL AND/OR SILK, OR COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed December 5, 1945. Serial No. 492,684. PUBLISHED APRIL 30, 1946. Class 42.

422,706. ROOF CEMENT. DOMINION CHEMICAL CO., INC., New York, N. Y.
Filed December 5, 1945. Serial No. 492,693. PUBLISHED MAY 14, 1946. Class 12.

422,707. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF. MEADTEX FABRICS CO., New York, N. Y.
Filed December 5, 1945. Serial No. 492,725. PUBLISHED APRIL 30, 1946. Class 42.

422,708. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF. MEADTEX FABRICS CO., New York, N. Y.
Filed December 5, 1945. Serial No. 492,729. PUBLISHED MAY 7, 1946. Class 42.

422,709. WITHDRAWN.

422,710. SILK AND RAYON PIECE GOODS USED FOR THE MANUFACTURE OF NECKTIES. M & W THOMAS CO., New York, N. Y.
Filed December 8, 1945. Serial No. 492,971. PUBLISHED APRIL 30, 1946. Class 42.

422,711. PIECE GOODS OF COTTON, RAYON, WOOL AND/OR SILK, OR COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed December 11, 1945. Serial No. 493,043. PUBLISHED APRIL 30, 1946. Class 42.

422,712. **TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND COMBINATIONS THEREOF.** MEADTEX FABRICS CO., New York, N. Y.
Filed December 11, 1945. Serial No. 493,069. PUBLISHED APRIL 30, 1946. Class 42.

422,713. HOUSEHOLD ALUMINUM WARE—NAMELY, FRYING PANS. BREWSTER AERONAUTICAL CORPORATION, Long Island City, N. Y.
Filed December 12, 1945. Serial No. 493,099. PUBLISHED MAY 7, 1946. Class 13.

422,714. COSTUME JEWELRY. LOUIS G. MEYERS, doing business as Alpha-Craft Company, New York, N. Y.
Filed December 14, 1945. Serial No. 493,270. PUBLISHED MAY 7, 1946. Class 28.

422,715. COSTUME JEWELRY. LOUIS G. MEYERS, doing business as Alpha-Craft Company, New York, N. Y.
Filed December 14, 1945. Serial No. 493,271. PUBLISHED MAY 7, 1946. Class 28.

422,716. PURSES, WALLETS, AND POCKETBOOKS. KING LEATHERS INCORPORATED, Indiana, Pa.
Filed December 15, 1945. Serial No. 493,365. PUBLISHED MAY 14, 1946. Class 3.

422,717. POWDER PUFFS AND POWDER MITTS. MERITA, INC., New York, N. Y.
Filed December 15, 1945. Serial No. 493,378. PUBLISHED MAY 7, 1946. Class 29.

422,718. ARTICLES FOR INFANTS—NAMELY, SHEETS, PILLOWCASES, TOWELS, AND WASH CLOTHS. JOSEPH M. WEISENBERG, New York, N. Y.
Filed December 15, 1945. Serial No. 493,414. PUBLISHED MAY 7, 1946. Class 42.

422,719. LOCKS. CRYPTO LOCKS INC., New York, N. Y.
Filed December 18, 1945. Serial No. 493,483. PUBLISHED MAY 7, 1946. Class 25.

422,720. PAPER CUPS. KNAPWAY DEVICES, INC., Kansas City, Mo.
Filed December 18, 1945. Serial No. 493,495. PUBLISHED MAY 14, 1946. Class 2.

422,721. TILES, BRICKS, WALL COVERINGS, AND SHEETS MADE OF CONSTRUCTION MATERIALS SERVING AS WALLS AND CEILINGS OR COVERINGS FOR WALLS AND CEILINGS. TENALITH PRODUCTS, INC., New York, N. Y.
Filed December 27, 1945. Serial No. 493,934. PUBLISHED MAY 14, 1946. Class 12.

422,722. STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. NATIONAL SILVER COMPANY, New York, N. Y.
Filed December 29, 1945. Serial No. 494,104. PUBLISHED MAY 7, 1946. Class 28.

422,723. BRAKE LININGS AND CLUTCH FACINGS. RAYBESTOS-MANHATTAN, INC., Passaic, N. J.
Filed January 5, 1946. Serial No. 494,360. PUBLISHED MAY 14, 1946. Class 35.

422,724. PYROPHORIC LIGHTERS FOR CIGARETTES, CIGARS, AND PIPES. BERNARD G. SCHRAMM, doing business as Paragon Products Service, Toledo, Ohio.
Filed January 10, 1946. Serial No. 494,575. PUBLISHED MAY 14, 1946. Class 34.

422,725. COFFEE. MERCHANTS COFFEE CO., OF NEW ORLEANS, LTD., New Orleans, La.
Filed January 16, 1946. Serial No. 494,856. PUBLISHED MAY 14, 1946. Class 46.

422,726. CANNED DOG AND CAT FOOD. CLEMENT L. HIRSCH, doing business as Packers Canning Company, Los Angeles, Calif.
Filed January 21, 1946. Serial No. 495,141. PUBLISHED MAY 14, 1946. Class 46.

TRADE-MARK REGISTRATIONS RENEWED

50,346. **INVINCIBLE.** AUTOGRAPHIC REGISTERS. Registered Mar. 13, 1906. THE CARTER-CRUME CO. LIMITED. Re-renewed Mar. 13, 1946, to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware. Class 37.

50,583. **CONTINUOUS.** DUPLICATE SALES-SLIP BOOKS AND PAPER PADS THEREFOR. Registered Mar. 27, 1906. CARTER-CRUME CO. LIMITED. Re-renewed Mar. 27, 1946, to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware. Class 37.

50,675. **BOSTON CRYSTAL GELATINE.** GELATIN. Registered Mar. 27, 1906. AMERICAN GLUE CO., Boston, Mass. Re-renewed Mar. 27, 1946, to Eastman Gelatin Corporation, Peabody, Mass., a corporation of Massachusetts. Class 46.

52,807. **REPRESENTATION OF A RED BAND BETWEEN TWO YELLOW BANDS.** METALLIC TIPS FOR LEAD-PENCILS. Registered May 15, 1906. EAGLE PENCIL COMPANY. Re-renewed May 15, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

53,961. **RACING.** PRESERVATIVE PAINT FOR THE BOTTOMS OF SHIPS AND BOATS. Registered June 19, 1906. TARR & WONSON, LTD., Gloucester, Mass., a corporation of Massachusetts. Re-renewed June 19, 1946. Class 16.

53,962. **REPRESENTATION OF A SAILING SHIP ETC. PRESERVATIVE PAINT FOR THE BOTTOMS OF VESSELS AND BOATS.** Registered June 19, 1906. TARR & WONSON, LTD., Gloucester, Mass., a corporation of Massachusetts. Re-renewed June 19, 1946. Class 16.

54,311. **"DWIGHT MAN'G. CO. CABOT A 40" AND DESIGN.** SHEETING. Registered June 26, 1906. MINOT, HOOPER & CO., New York, N. Y., a firm. Re-renewed June 26, 1946. Class 42.

54,699. **"SÖKERHETS-TANDSTICKOR" ETC. AND DRAWING.** SAFETY-MATCHES, PHOSPHORIC MATCHES, AND MATCHES OF OTHER KINDS. Registered June 26, 1906. AKTIEBOLAGET SÖDERTELJE, TÄNDSTICKSFABRIK, Södertelje, Sweden. Re-renewed June 26, 1946, to Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden, a corporation of Sweden. Class 9.

54,799. **"R. I. W." ETC. AND DESIGN.** DAMP-RESISTING PAINTS. Registered July 31, 1906. TOCH BROTHERS, New York, N. Y. Re-renewed July 31, 1946, to Toch Brothers, Incorporated, Staten Island, N. Y., a corporation of New York. Class 16.

55,058. **MANIFOLD.** LEAD-PENCILS. Registered Aug. 7, 1906. EAGLE PENCIL COMPANY. Re-renewed Aug. 7, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

55,059. **2½.** LEAD-PENCILS. Registered Aug. 7, 1906. EAGLE PENCIL COMPANY. Re-renewed Aug. 7, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

55,060. **1½.** LEAD-PENCILS. Registered Aug. 7, 1906. EAGLE PENCIL COMPANY. Re-renewed Aug. 7, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

55,061. **3½.** LEAD-PENCILS. Registered Aug. 7, 1906. EAGLE PENCIL COMPANY. Re-renewed Aug. 7, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

55,062. **PILOT.** LEAD-PENCILS. Registered Aug. 7, 1906. EAGLE PENCIL COMPANY. Re-renewed Aug. 7, 1946, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Class 37.

55,457. **SPLENDID.** LAUNDRY SOAP. Registered Aug. 14, 1906. J. G. HAAS SOAP CO., St. Louis, Mo. Re-renewed Aug. 14, 1946, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Class 4.

55,706. **GOLD DUST.** WHEAT-FLOUR. Registered Aug. 21, 1906. PHOENIX FLOUR MILL, Evansville, Ind. Re-renewed Aug. 21, 1946, to Igleheart Brothers Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

55,841. **BAKER'S.** COCOA, CHOCOLATE, BROMA, AND COCOA PREPARATIONS. Registered Aug. 21, 1906. WALTER BAKER & COMPANY LIMITED, Boston, Mass. Re-renewed Aug. 21, 1946, to Walter Baker & Company, Inc., Dorchester, Mass., a corporation of Massachusetts. Class 46.

55,846. **OCTAGON.** SOAP. Registered August 21, 1906. COLGATE & CO., New York, N. Y. Re-renewed Aug. 21, 1946, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

55,886. **COLGATE & CO.** SOAPS FOR TOILET, LAUNDRY, AND HOUSEHOLD USE, ALSO SOAP-POWDERS. Registered Aug. 21, 1906. COLGATE & CO., New York, N. Y. Re-renewed Aug. 21, 1946, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

56,116. **"KEEN KUTTER" AND DESIGN.** SCYTHES AND GRASS-HOOKS. Registered Aug. 28, 1906. SIMMONS HARDWARE COMPANY. Re-renewed Aug. 28, 1946, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Class 23.

56,130. **"B-S" AND DRAWING.** CALIPERS, DIVIDERS, AND TRY-SQUARES. Registered Aug. 28, 1906. BROWN & SHARPE MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed Aug. 28, 1946. Class 26.

56,153. **"KEEN KUTTER" AND DESIGN.** SCISSORS, SHEARS, AND HAIR-CLIPPERS. Registered Aug. 28, 1906. SIMMONS HARDWARE COMPANY. Re-renewed Aug. 28, 1946, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Class 23.

56,154. **"KEEN KUTTER" AND DESIGN.** DRAWING-KNIVES AND BOX-SCRAPERS. Registered Aug. 28, 1906. SIMMONS HARDWARE COMPANY. Re-renewed Aug. 28, 1946, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Class 23.

56,183. **REPRESENTATION OF A CLOCK OR WATCH FACE AND HANDS SHOWING ONE MINUTE.** PREPARED GELATIN. Registered Aug. 28, 1906. WHITMAN GROCERY COMPANY, Orange, Mass. Re-renewed Aug. 28, 1946, to Minute Tapioca Company, Inc., New York, N. Y., a corporation of Massachusetts. Class 46.

56,289. **NEW TREASURE.** OSCILLATING, ROTATING, AND VIBRATING SHUTTLE OR LOOPER SEWING-MACHINES, SEWING-MACHINE COVERS, TABLES, AND STANDS, AND SEWING-MACHINE ATTACHMENTS, EMBRACING RUFFLERS, TUCKERS, CHAIN-STITCH, EMBROIDERY, AND OTHER ATTACHMENTS. Registered Sept. 4, 1906. ALBERT G. MASON. Re-renewed Sept. 4, 1946, to White Sewing Machine Corporation, Cleveland, Ohio, a corporation of Delaware. Class 23.

196,278. **KILGORE.** AMMUNITION, PARTICULARLY PAPER CAPS FOR TOY PISTOLS. Registered Mar. 17, 1925. THE KILGORE MANUFACTURING COMPANY, Westerville, Ohio, a corporation of Ohio. Renewed Mar. 17, 1945. Class 9.

204,139. **WESTPHALIA.** BREAD—NAMELY, PUMPERNICKEL. Registered Oct. 6, 1925. VIETMEYER BROS., INC. Renewed Oct. 6, 1945, to Vietmeyer Bros. Co., Jersey City, N. J., a corporation of New Jersey. Class 46.

207,321. **"LUCOTE" AND DRAWING.** PAINT LACQUERS AND ENAMELS. Registered Dec. 29, 1925. JOHN LUCAS & COMPANY INCORPORATED. Renewed Dec. 29, 1945, to John Lucas & Company, Inc., Philadelphia, Pa., a corporation of Maryland. Class 16.

207,761. **"THE RHODES HAT" ETC.** LADIES' HATS. Registered Jan. 12, 1926. ERNEST L. RHODES CO., INC., Atlanta, Ga., a corporation of Georgia. Renewed Jan. 12, 1946. Class 39.

207,921. **SUPEROIL.** LUBRICATING OILS AND GREASES. Registered Jan. 12, 1926. THE BROWNELL CORPORATION, Sioux Falls, S. Dak. Renewed Jan. 12, 1946, to Bareco Oil Company, Tulsa, Okla., a corporation of Delaware. Class 15.

208,915. **HUMANATONE.** NASAL WIND MUSICAL INSTRUMENT. Registered Feb. 9, 1926. JAMES J. STIVERS, doing business as Humanatone Company, New York, N. Y. Renewed Feb. 9, 1946, to The Fred Gretsch Manufacturing Co., Brooklyn, N. Y., a corporation of New York. Class 36.

210,023. **"PAL" IN A MONOGRAM.** EARRINGS. Registered Mar. 9, 1926. P. & A. LINTON CO. INC., Providence, R. I., a corporation of Rhode Island. Renewed Mar. 9, 1946. Class 28.

210,383. **PNEUFLEX.** RUBBER VEHICLE TIRES. Registered Mar. 16, 1926. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed Mar. 16, 1946. Class 35.

210,442. **WIZPAKIT.** PAPER SHEETS, STRIPS, ROLLS, PADS, AND THE LIKE SUITABLE FOR MANIFOLDING USE; PRINTED FORMS FOR ALL KINDS OF BUSINESS TRANSACTIONS, SEPARATE PAPER RECORD SHEETS OR STRIPS ASSEMBLED TOGETHER IN PAD FORM; FOLDED PAPER RECORD RECEIVING STRIPS, ESPECIALLY TWO OR MORE ZIGZAG-FOLDED STRIPS ASSEMBLED AND INTERENGAGING EACH OTHER TO FORM A MANIFOLDING BOOK OR PAD OF SUPERPOSED RECORD LEAVES PROVIDING A FLAT COMPACT RECORD SUPPLY PAD OR BOOK FOR AUTOGRAPHIC REGISTERS, TYPEWRITERS, AND LIKE MACHINES; AND OTHER CERTAIN NAMED PAPER PRODUCTS. Registered Mar. 16, 1926. AMERICAN SALES BOOK COMPANY LIMITED, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y. Renewed Mar. 16, 1946, to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware. Class 37.

210,481. **CEL-O-GLASS.** AN ARTICLE OF MANUFACTURE COMPRISING A RETICULAR METALLIC BASE COVERED WITH A THIN TRANSPARENT OR TRANSLUCENT ELASTIC BODY OR FILM FIRMLY ADHERING TO THE STRANDS OF SAID BASE AND USED IN THE CONSTRUCTION OF TEMPORARY BUILDINGS OF ALL SORTS, TEMPORARY CLOSURES FOR WINDOWS, DOORS, ETC., OF NEW BUILDINGS UNDER CONSTRUCTION, CHICKEN HOUSES, GREENHOUSES, CHILDREN'S PLAYHOUSES, HOT-BED SASHES, COLD FRAME, WINTER SCREENS OF ALL SORTS, PORCH INCLOSURES, SUN PARLORS, SOLARIUMS, WINDOWS, AND TRANSPARENT PARTITIONS OF ALL SORTS. Registered Mar. 16, 1926. CELLO PRODUCTS INCORPORATED, New York, N. Y. Renewed Mar. 16, 1946, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Class 12.

210,529. **REPRESENTATION OF A RED BAND.** SECTIONAL PIPE COVERING. Registered Mar. 16, 1926. JOHNS-MANVILLE INCORPORATED. Renewed Mar. 16, 1946, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 12.

210,814. **REPRESENTATION OF RED BAND ON HOSE.** RUBBER-COVERED HOSE. Registered Mar. 16, 1926. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed Mar. 16, 1946. Class 35.

210,804. **LINTON EAR HOOP.** EARRINGS. Registered Mar. 23, 1926. P. & A. LINTON CO., INC., Providence, R. I., a corporation of Rhode Island. Renewed Mar. 23, 1946. Class 28.

210,991. **JOHN FARRAH.** TOFFEE, GINGER NUTS, CHOCOLATES. Registered Mar. 30, 1926. JOHN FARRAH & HARROGATE TOFFEE, LIMITED, Harrogate, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 30, 1946. Class 46.

210,992. **"FARRAH'S" ETC. AND DESIGN.** TOFFEE. Registered Mar. 30, 1926. JOHN FARRAH & HARROGATE TOFFEE, LIMITED, Harrogate, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 30, 1946. Class 46.

211,460. **"NUGGETS" AND DESIGN.** COOKIES AND MACAROONS. Registered Apr. 13, 1926. NUTT BROS., Los Angeles, Calif., a copartnership. Renewed Apr. 13, 1946. Class 46.

212,041. **ARMORITE.** SHEET-RUBBER COVERINGS FOR SURFACES OF RECEPTACLES, CONDUITS, MACHINERY PARTS, AND OTHER ARTICLES. Registered Apr. 27, 1926. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed Apr. 27, 1946. Class 50.

212,154. **"HOUSLINE" AND DRAWING.** HEAT-IN-INSULATING MATERIALS FOR BUILDINGS, COMPOSED MAINLY OF HAIR FELT. Registered Apr. 27, 1926. JOHNS-MANVILLE, INCORPORATED. Renewed Apr. 27, 1946, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 12.

212,510. **REPRESENTATION OF A RED STRAND APPEARING AT REGULAR INTERVALS IN THE SURFACE OF THE GOODS.** FLAX PACKING FOR GLANDS, STUFFING BOXES, VALVE STEMS, PISTONS, PISTON RODS, AND PLUNGERS. Registered May 4, 1926. JOHNS-MANVILLE, INCORPORATED. Renewed May 4, 1946, to Johns-Manville Corporation, New York, N. Y., a corporation of New York. Class 35.

213,061. **BIG HIT.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered May 18, 1926. VENTURA CITRUS ASSOCIATION, Ventura, Calif., a corporation of California. Renewed May 18, 1946. Class 46.

213,062. **DISPLAY.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered May 18, 1926. VENTURA CITRUS ASSOCIATION, Ventura, Calif., a corporation of California. Renewed May 18, 1946. Class 46.

213,063. **AWARD.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered May 18, 1926. VENTURA CITRUS ASSOCIATION, Ventura, Calif., a corporation of California. Renewed May 18, 1946. Class 46.

213,748. **NUTROMULSION.** EMULSION OF COD-LIVER OIL. Registered June 1, 1926. THE WM. S. MERRELL COMPANY. Renewed June 1, 1946, to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware. Class 6.

213,945. **STAND-LAC.** PRIMERS, SURFACERS OR PAINT UNDERCOATINGS, PAINT ENAMELS, PAINT SOLVENTS, VARNISHES, DRY, READY-MIXED AND PASTE PAINTS, STAINS, AND LACQUERS, WHICH MATERIALS CONSIST MORE OR LESS OF PYROXYLIN OR PAINT VEHICLE. Registered June 8, 1926. STANDARD VARNISH WORKS, New York, N. Y. Renewed June 8, 1946, to Standard Varnish Works, Staten Island, N. Y., a corporation of New York. Class 16.

213,987. **"SVW" AND DESIGN.** VARNISHES, PAINT ENAMELS, LACQUERS, STAINS, AND DRY, READY-MIXED, AND PASTE PAINTS. Registered June 8, 1926. STANDARD VARNISH WORKS, New York, N. Y. Renewed June 8, 1946, to Standard Varnish Works, Staten Island, N. Y., a corporation of New York. Class 16.

214,035. **OSH KOSH.** LOGGING TOOLS AND ELECTRICAL POLE-LINE CONSTRUCTION TOOLS. Registered June 8, 1926. LEACH COMPANY, Oshkosh, Wis., a corporation of Wisconsin. Renewed June 8, 1946. Class 23.

214,330. **SUPERISE.** PREPARATION TO BE USED IN BREAD MAKING OR AS YEAST FOOD. Registered June 22, 1926. TAKAMINE LABORATORY, INC., Clifton, N. J., a corporation of New York. Renewed June 23, 1946. Class 46.

214,832. **"JUNE BRIDE" AND DRAWING.** SELF-RISING FLOUR. Registered July 6, 1926. THE DUNLOP MILLING COMPANY, Clarksville, Tenn. Renewed July 6, 1946, to Igleheart Brothers Incorporated, New York, N. Y., a corporation of Delaware. Class 46.

214,896. **ORO.** CONVEYER CHAINS. Registered July 6, 1926. INLAND ENGINEERING COMPANY. Renewed July 6, 1946, to Kensington Steel Company, Chicago, Ill., a corporation of Illinois. Class 13.

215,256. **MOLLY.** STUFFED TOY ANIMALS. Registered July 13, 1926. GEO. BORGFELDT & CO. Renewed July 13, 1946, to Geo. Borgfeldt Corporation, New York, N. Y., a corporation of New York. Class 22.

215,493. **"LADY FLORHEM" ETC. AND DRAWING.** CHOCOLATES. Registered July 20, 1926. THE UNION NEWS COMPANY, New York, N. Y., a corporation of New York. Renewed July 20, 1946. Class 46.

215,864. **MERRY MAID.** LADIES', MISSES', AND CHILDREN'S SHOES, CONSTRUCTED OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. Registered July 27, 1926. THE S. KANN SONS COMPANY, Washington, D. C., a corporation of Maryland. Renewed July 27, 1946. Class 39.

215,880. **LOU-ANNA.** HOSIERY FOR MEN, WOMEN, AND CHILDREN, MADE OF COTTON, WOOL, AND SILK AND COMBINATIONS OF THESE MATERIALS. Registered July 27, 1926. LOUISIANA PAPER COMPANY, LTD., doing business as Louisiana Hosiery & Notion Co., Shreveport, La., a corporation of Louisiana. Renewed July 27, 1946. Class 39.

216,075. **EXCEL.** CUP LEATHERS FOR WELL VALVES. Registered Aug. 3, 1926. CLAYTON MARK & COMPANY, Chicago, Ill. Renewed Aug. 3, 1946, to Clayton Mark & Company, Evanston, Ill., a corporation of Delaware. Class 35.

216,099. **VELO.** PORTLAND CEMENT. Registered Aug. 3, 1926. F. L. SMIDTH & CO., New York, N. Y., a corporation of New Jersey. Renewed Aug. 3, 1946. Class 12.

216,123. **TELECELL.** PRIMARY BATTERIES AND PARTS THEREOF. Registered Aug. 3, 1926. THE WATERBURY BATTERY COMPANY, Waterbury, Conn., a corporation of Connecticut. Renewed Aug. 3, 1946. Class 21.

216,374. **"MERI-KAN".** WOMEN'S DRESSES. Registered Aug. 10, 1926. THE S. KANN SONS COMPANY, Washington, D. C., a corporation of Maryland. Renewed Aug. 10, 1946. Class 39.

216,531. **"EPCO" AND DESIGN.** DUST MASKS TO PREVENT THE INHALING OF DUST AND OTHER DELETERIOUS MATTER AND ARE SIMILAR TO MASKS USED BY FACTORY WORKERS. Registered Aug. 10, 1926. THE ENGINEERING PRODUCTS CORPORATION, INCORPORATED, New York, N. Y., a corporation of New York. Renewed Aug. 10, 1946. Class 44.

216,537. **"FOUNTAIN PEN VELLUM" AND DRAWING.** WRITING PAPER AND MAILING ENVELOPES. Registered Aug. 10, 1926. WESLEY & WINTER, INC., Newark, N. J. Renewed Aug. 10, 1946, to Wesley & Winter, Inc., Linden, N. J., a corporation of New Jersey. Class 37.

216,825. **PORCELAC.** VARNISHES, VARNISH STAINS, PAINT ENAMELS, FLOOR ENAMELS, DRY, PASTE, AND READY-MIXED PAINTS, LACQUERS, BRUSHING LACQUERS, FILLERS, DRIERS, AND STAINS. Registered Aug. 24, 1926. THE THOMSON WOOD FINISHING CO. Renewed Aug. 24, 1946, to Thomson-Porcelite Paint Co., Philadelphia, Pa., a corporation of Pennsylvania. Class 16.

216,841. **MALTED MILK TASTIES.** BAKERY GOODS DESCRIBED AS COOKIES, CAKES, AND WAFERS. Registered Aug. 24, 1926. PAUL SCHULZE BISCUIT CO. Renewed Aug. 24, 1946, to Schulze and Burch Biscuit Co., Chicago, Ill., a corporation of Illinois. Class 46.

216,879. **NEKAL.** WETTING-OUT AGENTS WHICH ARE BODIES USED IN A GREAT VARIETY OF WORKING PROCESSES IN THE TEXTILE AND OTHER INDUSTRIES WITH THE OBJECT OF FACILITATING A QUICK MOISTENING OR WETTING OUT OF THE MATERIALS TO BE TREATED WITH WATER OR SOLUTIONS, CF. COLOR SOLUTIONS, IMPREGNATING LIQUORS, ETC.; EMULSIFYING AGENTS WHICH REDUCE LIQUIDS OR OTHER BODIES, SUCH AS ORGANIC SOLVETS, FATS, OILS, RESINS, PARAFFINS, ETC.: TO AN EXCEEDINGLY FINE STATE OF DIVISION (EMULSION), WHICH ARE INSOLUBLE IN, OR NOT MISCIBLE WITH, WATER; AND SOLVENTS ARE BODIES WHICH ARE SUITABLE TO CONVERT OTHER BODIES INTO SOLUTIONS. Registered Aug. 24, 1926. J. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Ludwigshafen-on-Rhine, Germany. Renewed Aug. 24, 1946, to General Dyestuff Corporation, New York, N. Y., a corporation of New York. Class 6.

216,940. **CHAMPION.** LIVE POULTRY, BABY CHICKS, AND EGGS. Registered Aug. 24, 1926. OTIS A. CARTER, doing business as Carter's Chickery, Eldorado, Ill. Renewed Aug. 24, 1946. Class 46.

216,987. **KONKERIT.** WATERPROOFING PAINT. Registered Aug. 24, 1926. TOCH BROTHERS, INCORPORATED, New York, N. Y. Renewed Aug. 24, 1946, to Toch Brothers, Incorporated, Staten Island, N. Y., a corporation of New York. Class 16.

217,023. **ROSE.** HOPS. Registered Aug. 24, 1926. E. CLEMENS HORST COMPANY, San Francisco, Calif., a corporation of New Jersey. Renewed Aug. 24, 1946. Class 1.

217,160. **DELCO.** GRASS RUGS. Registered Aug. 24, 1926. DELTOX RUG COMPANY, Oshkosh, Wis., a corporation of Wisconsin. Renewed Aug. 24, 1946. Class 42.

217,278. **ORO.** REPAIR PARTS FOR TRENCH-EXCAVATING MACHINES, CONCAVES FOR GYRATORY CRUSHERS, JAW PLATES FOR JAW CRUSHERS, ELEVATOR BUCKETS, PULVERIZER HAMMERS, GEARS, PINIONS, SPROCKETS, ROLLERS, STEAM-SHOVEL PARTS, DIPPER TEETH, TRACTION DEVICES FOR STEAM SHOVELS, AND LINKS FOR THE TRACKWAYS FOR SELF-LAYING-TRACK TRACTORS. Registered Aug. 31, 1926. INLAND ENGINEERING COMPANY. Renewed Aug. 31, 1946, to Kensington Steel Company, Chicago, Ill., a corporation of Illinois. Class 23.

217,374. **FORGE.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Aug. 31, 1926. VENTURA CITRUS ASSOCIATION, Ventura, Calif., a corporation of California. Renewed Aug. 31, 1946. Class 46.

217,392. **"PINEY WOODS" AND DESIGN.** FLOTATION OILS, PINE OILS, AND PINE-TAR OIL. Registered Aug. 31, 1926. L. YANCEY CLARK, doing business as Georgia Pine Turpentine Company, New York, N. Y. Renewed Aug. 31, 1946, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 15.

217,427. **"CASHMERE BOUQUET" ETC. AND DESIGN.** TOILET SOAP. Registered Aug. 31, 1926. COLGATE & COMPANY. Renewed Aug. 31, 1946, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

217,449. **REPRESENTATION OF A BLACK BAND OVER A GREEN WRAPPER.** TOILET AND SHAVING SOAPS. Registered Aug. 31, 1926. THE PALMOLIVE COMPANY, Chicago, Ill. Renewed Aug. 31, 1946, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Class 4.

217,451. **BRIQUETTINE.** ADHESIVE EMPLOYED AS A BINDER OR BONDING AGENT IN THE MANUFACTURE OF BRIQUETTED COAL AND FOR MAKING ORES, BLOCKS, BRICKS, CORES, AND THE LIKE. Registered Aug. 31, 1926. ROBESON PROCESS COMPANY, New York, N. Y., a corporation of New Jersey. Renewed Aug. 31, 1946. Class 5.

217,508. **DYSOLVO.** COLLAR AND CUFF SOAP. Registered Aug. 31, 1926. THE DAVIES-YOUNG SOAP COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed Aug. 31, 1946. Class 4.

217,581. **"PRIMROSE" AND DRAWING.** COAL. Registered Sept. 7, 1926. PLATT & BRAHM COAL CO., Chicago, Ill., a corporation of Illinois. Renewed Sept. 7, 1946. Class 1.

217,583. **"WBCO." AND DESIGN.** PRIMARY BATTERIES AND PARTS THEREOF. Registered Sept. 7, 1926. THE WATERBURY BATTERY COMPANY, Waterbury, Conn., a corporation of Connecticut. Renewed Sept. 7, 1946. Class 21.

217,601. **HAZY CREEK.** COAL. Registered Sept. 7, 1926. OLD BEN COAL CORPORATION, Chicago, Ill., a corporation of Delaware. Renewed Sept. 7, 1946. Class 1.

217,615. **"GLOW-SHEEN" AND DESIGN.** DRESSES. Registered Sept. 7, 1926. E. H. BEHRENS & CO., INC. Renewed Sept. 7, 1946, to F. Schumacher & Co., New York, N. Y., a corporation of New York. Class 39.

217,618. **"FIRESIDE" ETC. AND DRAWING.** BATH ROBES. Registered Sept. 7, 1926. FRANK RUBINOWITZ MFG. CO. INC., New York, N. Y., a corporation of New York. Renewed Sept. 7, 1946. Class 39.

217,625. **HAPPY DAYS.** LEATHER SHOES. Registered Sept. 7, 1926. THE CHARLES MEIS SHOE COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 7, 1946. Class 39.

217,658. **RADIOHM.** RHEOSTATS AND RESISTANCE DEVICES FOR RADIO SIGNALING APPARATUS. Registered Sept. 7, 1926. CENTRAL RADIO LABORATORIES. Renewed Sept. 7, 1946, to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware. Class 21.

217,669. **"MILWATA" AND DRAWING.** MACKINTOSHES AND SHOWERPROOF COATS, CLOAKS, CAPES, AND SUITS FOR LADIES, GIRLS, BOYS, AND MEN. Registered Sept. 7, 1926. H. E. MILLS LIMITED, London, England. Renewed Sept. 7, 1946, to H. E. Mills, Limited, Lr. Broughton Salford, Lancashire, England, an organized company of Great Britain. Class 39.

217,699. **SIMPLEX.** BRAKE RIGGING, BRAKE HEADS, BRAKE BEAMS, BRAKE SHOES, BRAKE HANGERS, AND CLASP BRAKES. Registered Sept. 7, 1926. AMERICAN STEEL FOUNDRIES, Chicago, Ill., a corporation of New Jersey. Renewed Sept. 7, 1946. Class 19.

217,729. **DU BON.** CAPES, MEN'S AND WOMEN'S COATS; CHILDREN'S PLAY COATS, HATS, AND CAPES; BATH ROBES, MISSES' AND LADIES' SUITS AND SKIRTS. Registered Sept. 7, 1926. BOOTT MILLS, Lowell, Mass., a corporation of Massachusetts. Renewed Sept. 7, 1946. Class 39.

217,784. **HEADLIGHT.** WORKING MEN'S CLOTHING—NAMELY, WORKINGMEN'S SHIRTS, AND GLOVES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. Registered Sept. 7, 1926. LARNED, CARTER AND COMPANY, Detroit, Mich. Renewed Sept. 7, 1946, to The Crown Overall Mfg. Company, Cincinnati, Ohio, a corporation of Ohio. Class 39.

REISSUES

AUGUST 6, 1946

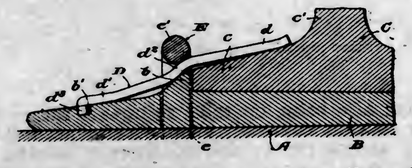
22,776

RAIL FASTENING MEANS

Richard T. Scholes, Hinsdale, Ill.

Original No. 2,385,032, dated September 18, 1945, Serial No. 468,700, December 11, 1942. Application for reissue January 5, 1946, Serial No. 639,244

4 Claims. (Cl. 238—349)

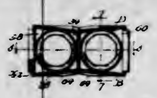


1. Rail holding means, comprising, the rail, a tie plate upon which the rail rests, a rib projecting upwardly from the tie plate and constituting an abutment for one edge of the base flange of the rail, an initially arched imperforate spring clip seated at its outer end upon the tie plate at a point spaced outwardly from said rib and seated at its inner end upon the upper face of the base flange of the rail at a point spaced inwardly from the outer edge of the said base flange, the medial part of said clip including an outwardly and downwardly extending step portion, and fastening means having a portion thereof engaging the upper face of said step portion and holding the lower part of said step portion in rigid engagement with the rib whereby said rib serves as a stop to limit compression of the clip under pressure of the fastening means, and the fastening and rib provide a fulcrum for the portion of the clip between its inner end and the step portion, said clip, between its inner end and the point where it engages the rib of the tie plate, having clearance from the top face of the rail flange to permit normal wave motion of the rail while the latter is engaged by the inner end portion of the clip and any tendency of the rail to move abnormally upwardly from the tie plate is prevented.

PATENTS

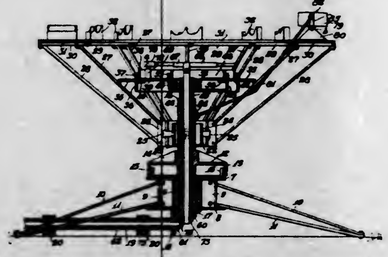
GRANTED AUGUST 6, 1946

2,405,107
RECEPTACLE DISPENSING CARTON
Walter E. Amberg, Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois.
Application April 8, 1943, Serial No. 482,268
9 Claims. (Cl. 206—56)



1. A device for dispensing nested receptacles compirsing a shipping tube made of substantially flexible material and adapted to hold a plurality of stacks of nested receptacles, and a shrinking band or collar of flexible sheet material around an end of said tube comprising a bridge member extending between opposite sides of said tube intermediately of said stacks, said band serving to constrict said sides and said bridge member forming with the sides of the tube a plurality of polygonal dispensing openings sufficiently small to hold the stacks while permitting the lowermost end of the stacks to protrude therethrough and allowing the lowermost receptacles to be grasped and removed one at a time.

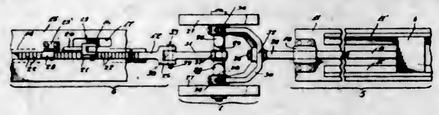
2,405,108
AMUSEMENT DEVICE FOR CARNIVALS
Glenn C. Brown, Taylor Ridge, Ill., assignor of one-half to Clarence Etzel, Rock Island, Ill.
Application February 17, 1945, Serial No. 578,399
9 Claims. (Cl. 272—50)



1. An amusement device for carnivals, comprising a suitable base, a central column mounted on said base, to rotate, a top-like structure supported on said column, a pair of eccentrics mounted in the upper part of the superstructure, one within the other, and operatively connected with the superstructure, to hold the same in a level position or change same to an inclined position, means for rotating the eccentrics independently of each other, and means for rotating said column.

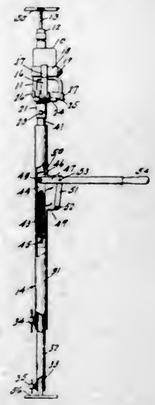
2,405,109
MEANS FOR TRANSLATING MECHANICAL ENERGY
Reynolds D. Brown, Jr., Blue Bell, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 1, 1943, Serial No. 504,628
7 Claims. (Cl. 74—1)

1. In a mechanism of the character described, a rotatable element having relatively eccentric portions and capable of having kinetic energy stored therein, a driven member, a driving member, said members respectively engaging said portions and supporting said element for free rotation, and means operable to impart intermittent motion in one direction to said driving member, said last



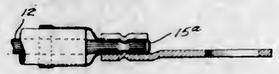
means also being operable to impart rotary motion to said rotatable element and accordingly store kinetic energy therein, thereby causing the continued rotation of said element for continuing the advancement of said driven member in said one direction during those periods when said driving member is substantially at rest.

2,405,110
DRILL
James Bullock, Richmond, Calif.
Application July 31, 1945, Serial No. 607,939
5 Claims. (Cl. 77—7)



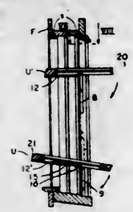
1. In combination with a power-driven drill having a chuck at one end; an adjustable strut having a plunger slidable in one end thereof and means for manually advancing and retracting said plunger; a cradle removably secured on the outer end of said plunger and universally adjustable for securing and adjusting said power-driven drill for adjusting the chuck in axial alignment with said strut; said plunger having a lever receiving slot formed centrally throughout a portion of the inner end, and a lever passage formed through the side wall of said strut and a pair of spaced parallel brackets spanning said lever passage; said means for manually advancing and retracting said plunger comprising a lever passing through said lever passage and pivoted within said lever receiving slot, a yoke having one end pivoted at the lower end between said brackets and having said lever pivoted thereto at the other end to compensate for arcuate movement of the lever.

2,405,111
ELECTRICAL CONNECTION
Vernon E. Carlson, Short Hills, and Thomas C. Freedom, Scotch Plains, N. J., assignors to Aircraft Marine Products, Inc., Elizabeth, N. J., a corporation of New Jersey
Application September 25, 1942, Serial No. 459,624
6 Claims. (Cl. 173—269)



1. In an electrical connector of the class wherein a conducting member terminates in a ferrule for reception of a conductor wire, the combination with said ferrule of a sleeve fitted to said ferrule and extending therebeyond to support an insulated portion of said wire, the outer end of said sleeve having the material thereof folded back into the sleeve and terminating in a serrated edge, and said sleeve being indented circumferentially at the outer end of the ferrule, whereby to fix its position thereon and forming a funnel over the end of the ferrule.

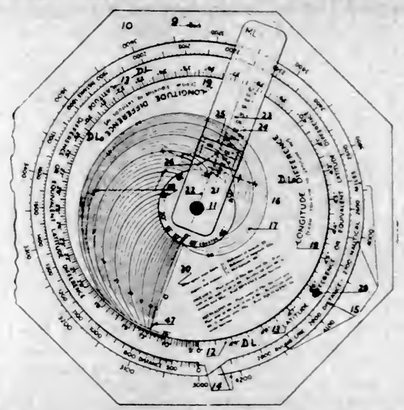
2,405,112
CONVERTIBLE COMBINATION STORM SASH AND SCREEN
Hubert O. Carroll, Painesville, Ohio
Application May 4, 1945, Serial No. 592,029
15 Claims. (Cl. 160—182)



11. In convertible storm sash and screen construction for a window frame having top and bottom window sashes, a frame insert of side and top members to be received within the window frame, a removable outer unit, and means facilitating placing such unit within the insert from the inside, said means including laterally inwardly projecting stop portions opposite the lower portion of the bottom sash of the window, inwardly swinging tongues hinged to the upper ends of said lower stop portions, spring means for holding said tongues in closed position, and cleats on said removable outer unit forming recesses to seat over said tongues.

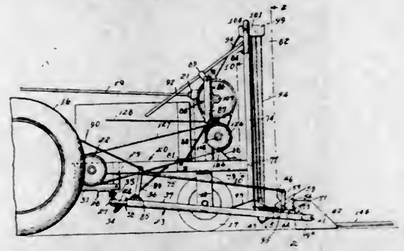
2,405,113
RHUMB LINE CALCULATOR OR DISTANCE AND COURSE COMPUTER
John E. Clemons, San Antonio, and John G. Nelson, Houston, Tex.
Application April 6, 1944, Serial No. 529,808
2 Claims. (Cl. 235—61)

1. A navigational instrument comprising a flat base member provided with a center pivot, a revolvable disc on said pivot, said disc having thereon a series of spirals indicating longitude distances, a rotary cursor on said pivot and having a scale of graduations indicating mid-latitude, a second scale having divisions indicating latitude differences or equivalent latitude differences on said base member and surrounding the periphery of said disc, and a third scale having divisions indicating rhumb-line distances in nautical miles



on said base member outside of and surrounding said second scale.

2,405,114
LOADING MACHINE
Gilbert E. Coats, Fort Dodge, Iowa
Application May 29, 1944, Serial No. 537,945
7 Claims. (Cl. 214—141)

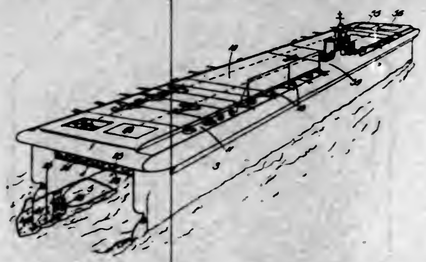


1. A tractor-mounted loading machine comprising an upright frame supported on the tractor, telescoping members positioned at opposite sides of the tractor, means pivotally supporting said telescoping members adjacent their rear ends on said tractor for up and down pivotal movement, with said upright frame being positioned between the front ends of said telescoping members and said front ends extendible forwardly of said upright frame, load-carrying means mounted on said front ends forwardly of said upright frame, flexible load-lifting means supported from said upright frame and operatively connected with said front ends to raise said load-carrying means, means for raising and lowering said lifting means, and a frame member connected between said front ends adapted to contact the forward side of said upright frame, on upward pivotal movement of said telescoping members, to provide for the extension of said front ends as said telescoping members are elevated.

2,405,115
FLOATING STRUCTURE
Frederick George Creed, Croydon, England, assignor to Floating Stations Limited, London, England, a company of Great Britain
Application September 10, 1943, Serial No. 501,805
In Great Britain September 25, 1942
8 Claims. (Cl. 114—43.5)

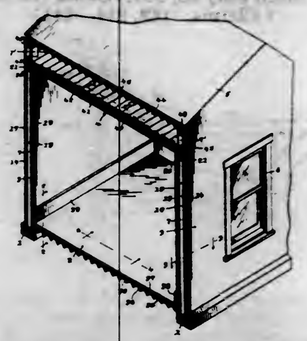
4. A floating structure comprising a pair of submerged elongated buoyant bodies arranged

with their longitudinal axes extending parallel to each other normally in a horizontal plane, two elongated hollow chambers each erected directly on one of said buoyant bodies, the transverse



thickness of said chambers being less than that of said buoyant bodies, girder frameworks interconnecting said hollow chambers at spaced intervals, and a superstructure supported by said girder frameworks above maximum wave level.

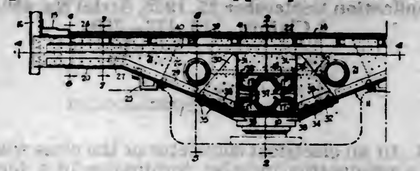
2,405,116
BUILDING CONSTRUCTION
Abbie B. Callen, Oxford, Miss.
Application March 9, 1944, Serial No. 525,702
3 Claims. (Cl. 72—1)



1. In a building, a foundation, walls rising from the foundation and each having a frame of vertically corrugated sheet metal, metal mesh secured against corrugations of the frame at inner and outer sides thereof, concrete covering the outer mesh and filling certain outer channels formed by the corrugations to form vertical concrete columns and a concrete outer facing for the wall, top fillers for the walls of trough shape and having their bottoms formed with openings, and concrete filling the trough-shaped top fillers and merging with the concrete of the walls through the openings, and plaster applied to the inner mesh.

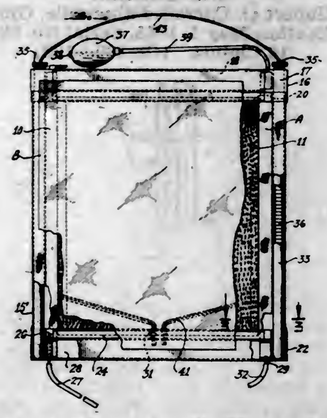
2,405,117
BOLSTER CONSTRUCTION FOR RAIL CAR UNDERFRAMES
Albert G. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application November 21, 1941, Serial No. 419,816, now Patent No. 2,331,891, dated October 19, 1943. Divided and this application October 15, 1943, Serial No. 506,232
13 Claims. (Cl. 105—226)

1. In a rail car underframe, a bolster having a vertically deepened central portion, said bolster being a box cross-section fabricated of sheet metal, the side walls being outwardly facing channels and the top and bottom walls being continuous flat strips overlapping the side walls of the channels and secured thereto, the side walls being continuous in the upper portion but dis-



continuous in the lower portion of the bolster to provide an opening for the extension of a center sill through the bolster, and reinforcing members for said side walls extending around the sides and top of said opening and including means for attachment to the center sill.

2,405,118
SOLAR DISTILLATION APPARATUS
William R. P. Delano, Syosset, N. Y., and William E. Meissner, Newark, N. J., assignors to Gallowhur Chemical Corporation, New York, N. Y., a corporation of Vermont
Application August 30, 1943, Serial No. 500,550
9 Claims. (Cl. 202—234)

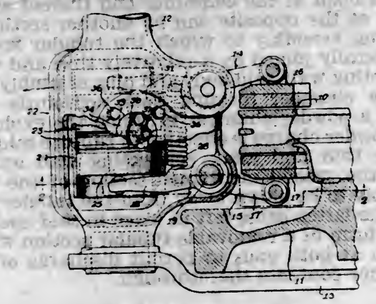


1. In an apparatus for distilling liquids, the combination of a layer of absorbent material united on one side to a sheet of flexible water-impermeable material a window formed of a sheet of transparent water-impermeable material and spaced from the opposite side of said absorbent material, the assembled sheets being stretched on two sides by stiff rods and stretched at right angles to said rods by means of a plurality of slats which are united, with edges abutting, to the back of the sheet of waterproof material, a header for distributing liquid to one end of the absorbent layer and a reservoir arranged and disposed to collect water flowing down the transparent window.

2,405,119
BRAKE ARRANGEMENT
Carolus L. Eksergian and Joseph H. Coombes, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 29, 1944, Serial No. 520,210
4 Claims. (Cl. 188—153)

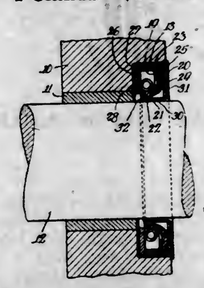
1. In a brake arrangement, a rotary brake disc, a pair of non-rotary brake elements operatively

associated with the opposite sides of said disc, and support means for said elements comprising a closed casing, a pair of brake levers operatively associated with the separate elements outside the casing and pivotally carried by the casing, and a removable cylinder actuator within the casing



for actuating said levers, said casing being divided by a plane therethrough into separable main and cover portions and said cylinder actuator being demountably associated with the main portion of the casing and extending across said plane into the cover portion thereof.

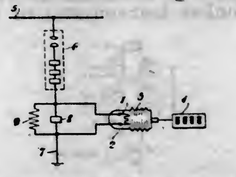
2,405,120
BEARING SEAL CARTRIDGE
Douglas N. Evans, Gary, Ind.
Application May 1, 1944, Serial No. 533,470
4 Claims. (Cl. 286—1)



1. A bearing seal cartridge comprising, in combination, an annular flexible sealing member shaped to provide a wiping lip adapted to extend generally axially of and in engagement with a rotatable member, and a pilot comprising a cylindrical sleeve within said sealing member and adapted to be slid over the rotatable member in moving the seal into position on the rotatable member, said pilot being adapted to be removed from the seal after the seal is in its operative position whereby the wiping lip is prevented from moving axially in contact with the rotatable member, said pilot having a radial flange abutting against said seal to prevent shifting of the sleeve relative to the sealing member during placement of the seal on the rotatable member.

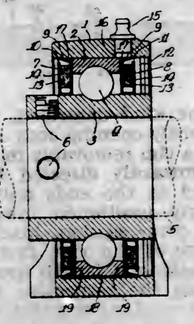
2,405,121
COUNTING DEVICE FOR OVERVOLTAGE
Paul Fehr, Zug, Switzerland, assignor to Landis & Gyr A. G., a body corporate of Switzerland
Application August 5, 1943, Serial No. 497,441
In Switzerland November 7, 1942
3 Claims. (Cl. 235—92)

1. A device for counting momentary power surges such as caused by lightning on a transmission line, said device including a main current conducting path, a resistance shunted across said main current conducting path, a gas-filled ex-



pansible chamber surrounding said resistance with the gas being heated by said resistance, a counting device associated with said expansible chamber to be operated by each expansion cycle.

2,405,122
SHAFT BEARING
David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application August 25, 1944, Serial No. 551,204
9 Claims. (Cl. 308—187.1)

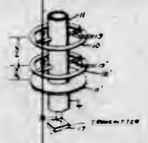


1. A shaft bearing comprising a housing and an annular antifriction bearing unit mounted therein and having within the housing a resilient contractible annular element abuttable by one end of the outer race-ring of said unit, said element being of greater diameter than that of said unit and said housing having a pair of internal annular grooves in either of which said element can be seated and in a selected one of which it is seated, said element when seated in either of said grooves being held against longitudinal displacement by end thrust of said race-ring, there being in the housing thrust-sustaining means abuttable by the opposite end of said race-ring and said grooves being so located that said element when seated in the outer one of said grooves is spaced from said means a sufficient distance to permit limited longitudinal movement of the interposed race-ring relative to the housing and when seated in the inner one of said grooves said element and means hold said race-ring against such relative movement.

2,405,123
ANTENNA SYSTEM
George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application August 7, 1942, Serial No. 497,813
8 Claims. (Cl. 250—33)

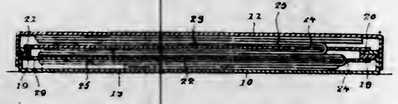
8. A high frequency antenna system having a substantially circular radiation pattern in a first plane and directivity in planes transverse thereto comprising, a cylindrical electrically conductive

member, a metallic loop-like member substantially encircling and coaxially disposed with respect to said cylindrical member to form therewith a section of transmission line terminated for reflectionless transmission of energy there-



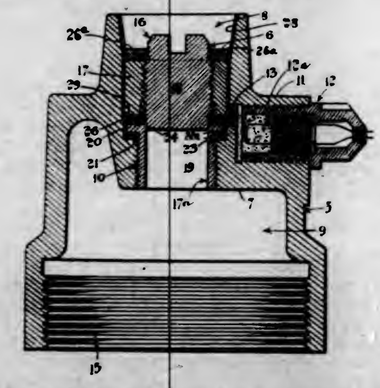
over, said metallic member having a pair of ends spaced apart by a small angle with respect to a radius of said cylindrical member, a source of high frequency signals, and means supplying signals from said source to said ends.

2,405,124
GARMENT HOLDER
Prentice Gilliland, Los Angeles, Calif.
Application December 1, 1944, Serial No. 566,146
1 Claim. (Cl. 206—7)



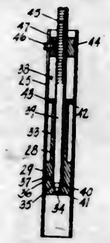
A case of the kind described, comprising an elongated upwardly opening body section, a cover section having a rim removably telescoped on the body section, inwardly directed flanges on the upper edge and at the ends only of the body section, similarly positioned inwardly directed flanges in the cover section, inset with respect to the free edge of the rim, flexible panel-like carriers each having a length greater than the distance between the respective flanges of the body and cover sections insertable in the body and cover sections for engaging the flanges and means for frictionally holding the sections latched together.

2,405,125
AUTOMATIC FIRE EXTINGUISHER
Oral E. Barnard, Montreal, Quebec, Canada, assignor to Dominion Merchants Company Limited, St. Laurent, Quebec, Canada
Application September 11, 1943, Serial No. 501,922
4 Claims. (Cl. 169—28)



1. An explosive head for fire extinguishers comprising a body portion and a separately formed blow-out plug assembly fitted together with a portion of the plug assembly removably inserted in and plugging an opening in the head through which the container with which the head is associated is charged and discharged, the portion of the plug assembly inserted in said opening comprising a lower tubular stem section whose bore is open at the container end thereof and is closed at the opposite end by another section of the plug assembly to which the tubular section is integrally joined by a relatively thin and weak connecting wall, said body and plug assembly presenting chamber forming walls conjointly providing a powder chamber in which the explosion of a powder charge is effective to rupture said relatively thin and weak connecting wall and to cause the second mentioned section of the plug assembly to be blown away from the tubular section, the latter being left in place in said opening in the form of a removable tubular section which is open at both ends to permit discharge of the container contents therethrough.

2,405,126
CONTROL MEANS FOR FUEL FEED SYSTEMS
John E. Bates, Lansing, Mich.
Application January 20, 1944, Serial No. 518,952
8 Claims. (Cl. 137—21)



8. In a metering valve for fuel feed systems and the like, the combination of a tubular support communicating at its lower end with the system controlled and having a side inlet opening, a tubular valve casing arranged within said tubular support, said valve casing being disposed within said tubular support and having a discharge port at its lower end and a lateral inlet passage above its said valve seat registering with said inlet opening of said tubular support, said valve casing having a side passage communicating with the interior of said support above and below said casing, a valve member having a valve coacting with said port, and means for adjustably supporting said valve member carried by said support.

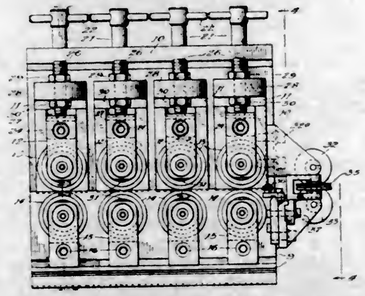
2,405,127
VALVE
Justice H. Beach, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 9, 1943, Serial No. 490,139
10 Claims. (Cl. 137—139)



1. A valve for controlling the flow of fluid in a hermetically closed system comprising, a non-magnetic shell adapted to be hermetically sealed to the system walls, a magnetic valve element slidably mounted within said shell, a magnetic

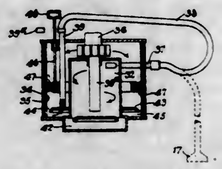
seat member for said valve fixed within said shell and a permanent magnet slidably mounted on the exterior of said shell and being so positioned relative to said valve element and valve seat member that said valve element is moved against and away from said seat member when said magnet is reciprocated and said valve element, valve seat member and magnet being so related as to form a closed path for magnetic lines of force when the valve is in closed position.

2,405,128
FORMING MACHINE
Leonard G. Berquist, Niles, Mich., assignor to National-Standard Company, a corporation of Michigan
Application April 8, 1944, Serial No. 530,204
9 Claims. (Cl. 153—28)



1. In a machine for forming a continuous strip of metal: a frame; a forming roll journalled in said frame; a main carrier mounted on said frame; an auxiliary carrier secured to said main carrier; a second forming roll journalled in said auxiliary carrier to coact with the first mentioned roll in shaping a strip of metal drawn between said rolls; means for accurately adjusting the position of the auxiliary carrier on the main carrier; and means for moving the main carrier bodily to and from a fixed position on the frame without disturbing the adjustment between carriers.

2,405,129
VACUUM CLEANING SYSTEM
Walter E. Bible, Denver, Colo., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Original application February 10, 1941, Serial No. 378,236. Divided and this application August 15, 1942, Serial No. 454,940
3 Claims. (Cl. 183—57)



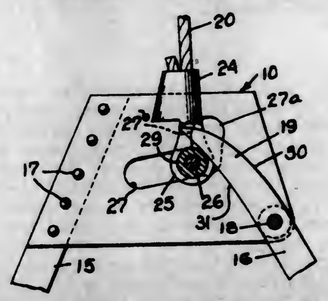
1. In a suction cleaner, a whirl chamber adapted to be connected to a cleaning nozzle to separate dirt from air passing therethrough, a suction-creating unit connected to said whirl chamber to draw air therefrom, and a filter chamber including a filter connected to said suction-creating means to receive and filter air exhausted therefrom, a movable brush in said filter chamber to dislodge foreign material from said filter, a fixed suction intake in said filter chamber to remove said foreign material dislodged by said brush and positioned adjacent said brush in one of its positions, and air-conducting means connecting said intake to said whirl chamber to convey said foreign material thereto.

2,405,130
SCREW DRIVER
Samuel Bloomfield, Wichita, Kans., assignor, by direct and mesne assignments, to C. Earl Hovey, Kansas City, Mo., as trustee
Application January 19, 1944, Serial No. 518,793
1 Claim. (Cl. 145—50)



In a screw-driver of the character described, a blade portion comprising a fixed section having its free end tapered to enter the kerf of a screw; a movable section pivotally mounted intermediate its ends on the fixed section and adapted to have either of its ends in superimposed relation with the free end of the fixed section; and means for yieldably holding the movable section in position with either of its ends in said superimposed relation with the fixed section, the ends of said movable section being of different thickness.

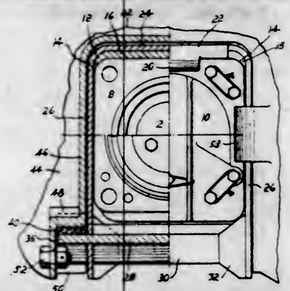
2,405,131
BUCKET LOCKING MEANS
John B. Botten, Russell Township, Geauga County, Ohio
Application November 9, 1944, Serial No. 562,585
3 Claims. (Cl. 37—184)



1. A digging device of the character described, comprising digging shell members pivoted together, head and counterweight members, two sets of links connected respectively to said shell members, one set being rigidly and the other set being pivotally connected to the head, a closing line, a holding line, said pivoted link members being provided with extensions, and means

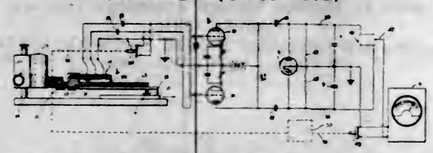
operated by the holding line when the device is open and arranged to obstruct movement of said extensions and thereby lock the digging members against closing movement.

2,405,132
RAILROAD JOURNAL BOX
Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 10, 1944, Serial No. 525,883
14 Claims. (Cl. 105—223)



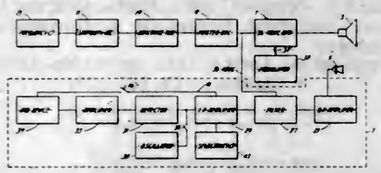
5. In a device of the character indicated, a journal box, a yoke rockable on the box and having legs at the sides of the box, a frame having pedestals embracing the yoke, each leg of the yoke having a supporting seat projecting outwardly therefrom to overlap the pedestal leg, each pedestal having a similar seat overlying the supporting seat and rockable thereon, and each pedestal having a side lug extending inwardly across the edge of a yoke leg and into overlapping relation to an end of the box to limit shifting of the box and the yoke with respect to the pedestal.

2,405,133
METHOD AND MEANS FOR MEASURING SURFACE ROUGHNESS
Walter J. Brown, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application October 7, 1942, Serial No. 461,123
9 Claims. (Cl. 73—105)



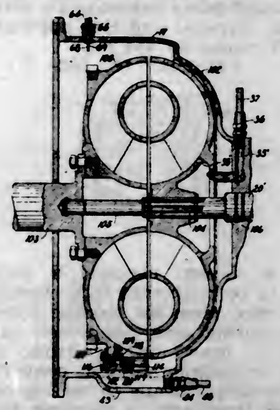
1. The method of investigating an irregular surface through utilization of an electrical pick-up device of the type including carrier means on which are mounted a movable tracer point and means operable by said point for generating a fluctuating electrical signal related to excursions of said point with respect to the carrier means that comprises bringing the point into contact with the surface, causing relative movement at a constant known rate between the carrier means and the surface transversely of the direction in which the tracer point is movable and along a path of predetermined length thereby producing a fluctuating electrical signal, dividing said fluctuating electrical signal into a first fluctuating electrical signal representative of the surface peaks and a second fluctuating electrical signal representative of the scratches, and deriving from said first and second electrical signals further electrical signals proportional to the squares of the instantaneous values thereof, integrating said derived signals and measuring the integrated signals to provide an indication of the total roughness of the peaks, or of the scratches or of both.

2,405,134
DISTANCE MEASURING SYSTEM
Walter J. Brown, Cleveland Heights, and John E. Shomer, Lakewood, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1942, Serial No. 453,460
7 Claims. (Cl. 177—386)



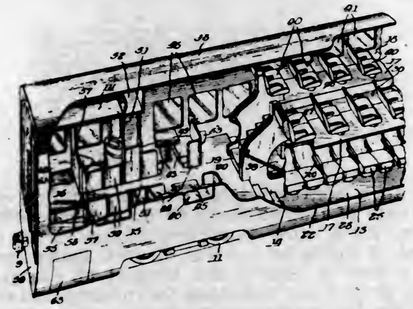
1. In a distance measuring system, means for producing electrical waves at supersonic frequencies, means for causing the frequency of said waves to vary as a saw-tooth over a range having definite upper and lower limits, means for causing the frequency variation to recur periodically at a definite adjustable rate, means for converting said electrical waves into compressional waves in a given medium, means for receiving said compressional waves after reflection from a remote object, means for converting said received compressional waves into electrical waves representative thereof, connections for combining said representative electrical waves with waves from the first mentioned electrical wave producing means to produce therefrom electrical waves at lower frequencies and means for selecting waves at substantially a single frequency from said last mentioned waves, said single frequency being the difference between either the upper or the lower limit of the frequency range and the median frequency thereof.

2,405,135
TRANSMISSION
Orville K. Butzbach, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application July 5, 1940, Serial No. 343,938
6 Claims. (Cl. 00—54)



2. In a unit having fluid connected driving and driven members, a valve passageway in the periphery of one of said members, a centrifugally controlled check valve in said passageway, a second valve in said passageway normally closing the same, and a thermally responsive element for opening said second valve.

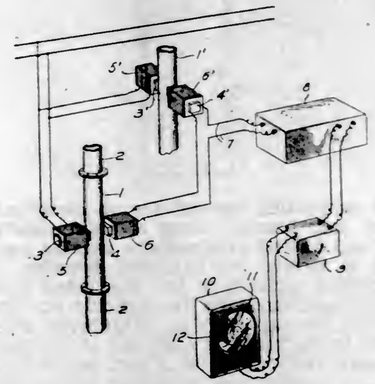
2,405,136
DOUBLE DECK VEHICLE
Francis J. Dittrich, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1943, Serial No. 512,331
14 Claims. (Cl. 105—340)



1. A double deck vehicle comprising a body portion having a depressed floor section between the supporting trucks, normal floor sections extending from above the trucks to respective ends of the vehicle, a continuous framing center sill upstanding from said depressed floor section dividing said section into seating compartments providing passageways longitudinally of the vehicle, a plurality of laterally spaced stairways at the ends of said passageways connecting said depressed and normal floor sections, an elevated floor section above and terminating within the plan projection of said depressed floor section and said stairways, and other stairways intermediate said first-mentioned stairways connecting said elevated and normal floor sections.

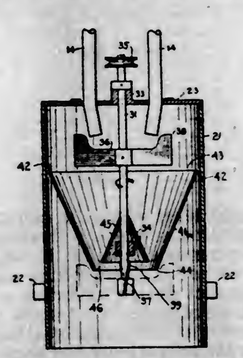
2,405,137
METHOD AND APPARATUS FOR ANALYZING IRON SLUDGE
Shirley Irving Gale, Plainfield, James M. Moran, South Plainfield, and Winfield B. Heinz, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application October 12, 1942, Serial No. 461,712
3 Claims. (Cl. 23—230)

2. An apparatus for indicating changes in the magnetic properties of a flowing stream of materials which comprises conduit means, at least a section of which is of a non-magnetizable material, for conducting at least a representative portion of said stream therethrough; a hollow jacket, also of non-magnetizable material, surrounding said section and adapted to have a heat-exchange fluid passed therethrough; a first means adjacent one side of said section for creating an alternating electro-magnetic field in which said section is located; a first electrical coil, inductively coupled in said field and located on the opposite side of said section from said field-creating means; a means in equivalency of said non-magnetizable section, adapted to serve as a comparison section but not adapted to contain such material; a second means, adjacent said equivalent means for creating a second alternating electro-magnetic field of substantially the same intensity as the first and in which second field said equivalent means is located; a second electrical coil inductively coupled in said second field and located on the opposite side of said equivalent



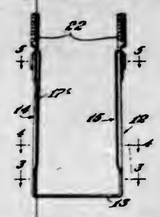
means from said second field-creating means; common lead means connecting said first and said second coil with opposed polarity, said coils being normally balanced whereby no current will flow in said common leads; and means connected in said common leads to indicate changes in potential therein.

2,405,138
APPARATUS FOR BREAKING FOAM
Louis E. Gates, Canton, N. C., assignor to The Champion Paper and Fibre Company, Canton, N. C., a corporation of Ohio
Original application May 20, 1941, Serial No. 394,382, now Patent No. 2,366,513, dated January 2, 1945. Divided and this application August 19, 1944, Serial No. 550,267
12 Claims. (Cl. 252—361)



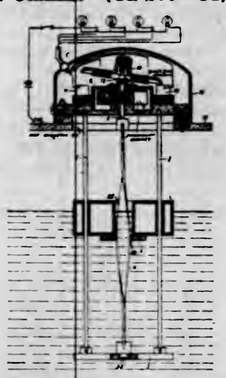
1. A device for breaking foam, comprising: a rotatable paddle; means for rapidly rotating said paddle; a substantially imperforate target surrounding the path of rotation of said paddle and separated therefrom by a substantial clearance; means for removing foam from its parent liquid; and means for introducing a stream of said foam into the path of rotation of said paddle at a location intermediate the axis of rotation and the circumference of the path of said paddle.

2,405,139
SUPPORT FOR CAPACITORS
Eamonn D. A. Geoghegan, Canton, Mass., assignor to Tobe Deutschmann Corporation, Canton, Mass., a corporation of Delaware
Application November 23, 1944, Serial No. 564,849
3 Claims. (Cl. 248—311)



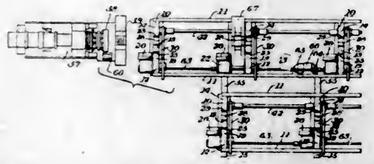
1. A supporting bracket for an electrical capacitor, said bracket being of substantially U-shape and having substantially parallel legs designed to receive the capacitor between them, the opposed surfaces of the legs being concave for clampingly engaging the capacitor and spaced to permit the capacitor to be slidingly inserted between them from the open end of the bracket, and means at the free end of each leg for attaching it to a support, said attaching means leaving said concave surfaces unobstructed for said sliding insertion.

2,405,140
LIQUID LEVEL SWITCH
Walter Grimm, Zurich-Oerlikon, Switzerland, assignor to L. H. Kapp & Co., Zurich, Switzerland
Application March 1, 1945, Serial No. 580,300
2 Claims. (Cl. 200—84)



2. In a liquid level gage, the combination with a float mechanism in which a float rotates a vertical spindle when the level of the liquid changes, of a contact device for controlling signalling circuits, said contact device including a vertical rotatable shaft, an annular permanent magnet having a radial slot concentrically attached to said shaft, means for operatively connecting the lower end of said shaft with the upper end of said spindle, an electrically grounded circular contact disc, means for rotatably and tiltably supporting said disc above said permanent magnet in axial alinement with said shaft, an annular magnetizable disc secured to said circular contact disc and arranged opposite said annular permanent magnet, and a series of electrically insulated contact members arranged concentrically about the axis of said shaft and adapted to be engaged successively by the circumference of said contact disc when the latter is tilted and when said permanent magnet is rotated, thereby closing the signalling circuits to which the respective contact members are connected.

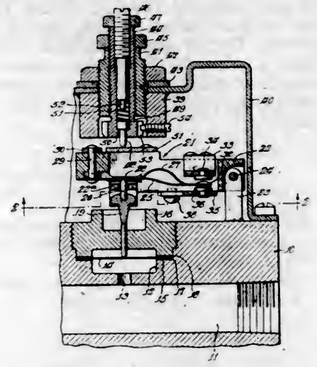
2,405,141
CONVEYER TABLE
Robert L. Hibbard, Bellevue, Pa., assignor of one-half to William K. Stamets, Mars, Pa.; Stewart C. Hibbard, Robert L. Hibbard, Jr., and Hays M. Junkin, executors of said Robert L. Hibbard, deceased
Application December 23, 1943, Serial No. 515,409
13 Claims. (Cl. 10—107)



5. In a conveyer table, the combination of a plurality of frames mounted in parallel relation to provide a work-supporting surface, a roll disposed in the same location of each frame forming a seat to receive and support an elongated work piece, a common drive for rotating said rolls, a motor for operating the drive, a stop adjacent the end frame to arrest the longitudinal movement of the work piece in a predetermined position, friction clutch means operatively interposed between the motor and the drive arranged to slip when the frictional load of the work piece is increased by its engagement with the stop to cause the rolls to cease rotation, a series of V-blocks disposed in alignment in the same location of each frame forming a second seat to receive and support a work piece, means for clamping and machining the work piece while supported on the second seat, a plurality of levers pivotally supported parallel with the frames, at least one lever being arranged to operate between adjacent frames, and means for periodically oscillating said levers in unison to simultaneously remove the finished work piece from the second seat, transfer the work piece from the first seat to the second seat, and deposit another work piece on the rotating rolls of the first seat.

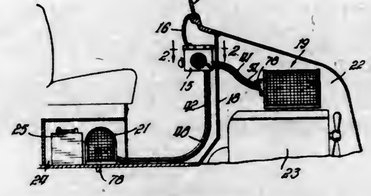
2,405,142
PRESSURE SWITCH
Ray G. Holt, Euclid, Ohio, assignor to Pesco Products Co., Cleveland, Ohio, a corporation of Ohio
Application October 6, 1943, Serial No. 505,104
4 Claims. (Cl. 200—83)

1. In a fluid pressure responsive switch arrangement, the combination of means adapted to be in communication with fluid under pressure and movable with changes in such fluid pressure, an electric switch, means for transmitting movement from said first named means to said switch for opening the switch at a certain fluid pressure on said first named means and for closing the switch at another fluid pressure on said first named means, and means for simultaneously increasing or decreasing both the switch opening and switch closing fluid pressures and including means for permitting a movement of said switch as a whole along with movement of said first and second named means, a plunger opposite the movement transmitting means for restraining such movement of the switch, a support having a threaded aperture, telescoped sleeves threaded into said aperture, said sleeves having interior and exterior threads and the inner sleeve movably supporting said plunger, threaded means



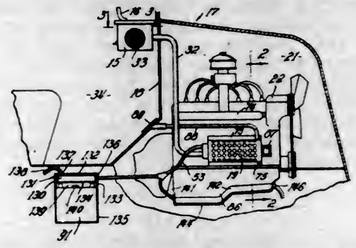
screwed into the inner sleeve, and a spring acting between said threaded means and said plunger for yieldably biasing said plunger against said switch.

2,405,143
HEATING SYSTEM
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application October 23, 1942, Serial No. 463,108
15 Claims. (Cl. 180—90)



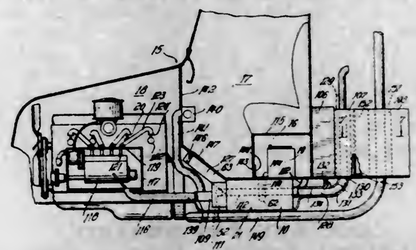
7. In a heating system which includes a battery and a pair of heating units each provided with a combustion chamber and a fuel conditioning unit for delivering a mixture of fuel and air to the associated combustion chamber, and wherein each conditioning unit includes a fuel ignition element adapted for energization from said battery; the combination which includes a control unit remotely located from said heating units and including an electrically operated pump and electrically operated air moving means connected for energization from said battery, a conduit system interconnecting said control unit and said heater units, means including said conduit system for selectively delivering fuel from said pump and air from said air moving means to either or both of said fuel conditioning units, means included in said control unit for selectively energizing either or both of said ignition elements from said battery, and means included in said control unit for selectively controlling the energization of said pump to vary the fuel delivery rate thereof so that the proper combustible mixture is delivered to said combustion chambers regardless of whether one or both of said heating units are operating.

2,405,144
HEATING SYSTEM
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application March 3, 1943, Serial No. 477,813
9 Claims. (Cl. 237—1)



4. A heating system for a mobile craft provided with an engine and a space to be heated, comprising a heater including means defining a combustion chamber, a member partially surrounding said combustion chamber and supporting said heater upon said engine with said combustion chamber spaced from said engine, said member defining an air heating chamber which at least partially surrounds said combustion chamber and includes the space between said combustion chamber and said engine, whereby heat is radiated to said engine directly through said air heating chamber when air is not being pulled into said air heating chamber, said member also having openings for admitting air to said air heating chamber, and means including selectively operable air moving means for pulling air into said air heating chamber through said openings and for discharging the air into said space, thereby to heat said space and to decrease the radiation of heat to said engine.

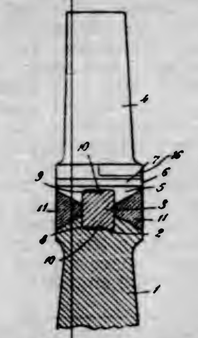
2,405,145
HEATING SYSTEM
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application April 19, 1943, Serial No. 483,634
8 Claims. (Cl. 123—142.5)



4. A heating system providing for the starting and operating of a Diesel engine at cold temperatures having a starting battery for said engine with a reduced effective capacity at said cold temperatures, a heater of combustion type using said battery as a sole source of power supply and having electrical portions operable from said battery at said reduced effective capacity, a fuel feeding system for said heater including a source of fuel supply, a fuel feeding system for said engine, an auxiliary fuel supply for said engine, a main fuel supply for said engine, means including certain of said electrical portions for heat-

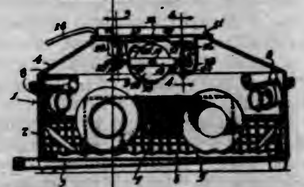
ing said fuel feeding system prior to the operation of said heater, means for carrying air in a heat exchange relation with said heater and the heated air to said battery and engine fuel feeding system, means for carrying exhaust gases from said heater in a heat exchange relation with said auxiliary fuel supply, with said heater being operated prior to said engine to heat said battery to increase its effective capacity, and said engine fuel feeding system and said auxiliary fuel supply to heat the fuel therein, and means, after said engine is started, for carrying exhaust gases from said engine in a heat exchange relation with said main fuel supply to provide for the supply of heated fuel to said engine during normal engine operation.

2,405,146
TURBOMACHINE
Walter Huber, Winterthur, Switzerland, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland
Application September 3, 1943, Serial No. 501,072
In Switzerland December 24, 1942
5 Claims. (Cl. 253—77)



1. A turbomachine having blades welded on the rotor which comprises a ring around the rotor and spaced inward from the side edges thereof, a plurality of blades mounted over the ring, a relatively small bar which may be plastically deformed, in a space between the rotor and ring and another of said bars in a space between the ring and the blades, said bars holding the blades spaced from the ring and the ring spaced from the rotor when the rotor parts are assembled prior to welding, and means for welding the blades to the rotor on both sides of the ring, the cooling and contracting of the weld causing the bars to be deformed and the blades to lie against the ring and the ring to lie against the rotor.

2,405,147
HOUSE TYPE DISHWASHER
Clayton O. Kauffman, Fullerton, Calif.
Application July 27, 1944, Serial No. 546,778
6 Claims. (Cl. 299—67)



1. A spraying mechanism for dish-washers comprising: a gimbal frame adapted to rotate about a horizontal axis; a spraying wheel journaled about an axis transverse to said gimbal frame axis whereby said spraying wheel is simultaneously rotatable about its own axis and about the axis of said gimbal frame; means for supplying water to said gimbal frame; means carried by said gimbal frame and rotatable therewith for directing a stream of water against said spraying wheel whereby the water is thrown tangentially therefrom; and means for rotating said gimbal frame.

2,405,148
COUPLING
Frank S. Keahey, Sturgis, Mich., assignor, by direct and mesne assignments, to Kirsch Company, Sturgis, Mich.
Application April 3, 1943, Serial No. 481,725
4 Claims. (Cl. 287—100)



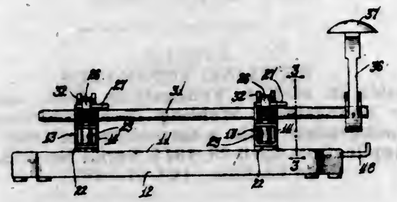
4. In a coupling, the combination of a socket member provided with an internal annular bearing of concave section, a ball member having opposed segmental bearing portions of convex section adapted to coact with the internal bearing of said socket member, said ball member having opposed parallel flattened surfaces between its said segmental bearing portions, and segmental filler elements complemental to the bearing portions of said ball member and coacting with the flattened surfaces of the said ball member, said ball member being insertable between the said segmental elements when they are positioned in opposed relation within said socket member and the ball member is presented in angular relation thereto with its flattened surfaces in opposed relation to the segmental elements.

2,405,149
HOLLOW RUBBER ARTICLE AND APPARATUS FOR PRODUCING SAME
David C. Kempthorn, Akron, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Original application July 15, 1942, Serial No. 450,954. Divided and this application March 31, 1944, Serial No. 528,880
3 Claims. (Cl. 46—117)



1. A hollow vulcanized rubber article having a noise-making device integrally formed in the wall thereof by flow of rubber during vulcanization of the article, said device having therein an outer noise-making cavity defining an outer wall, a second cavity being provided in said device in spaced relation to said outer cavity and defining an inner wall in spaced relation to said outer wall, said spaced outer and inner walls having therethrough substantially aligned apertures, said inner cavity opening inwardly of the article to provide for passage of air through said aligned apertures and said outer cavity, said inner cavity defining a peripheral reinforcing portion inwardly of said inner wall.

2,405,150
PERFORATING DEVICE
Emil Kern, Long Island City, N. Y., assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Application June 21, 1945, Serial No. 600,661
17 Claims. (Cl. 164—91)



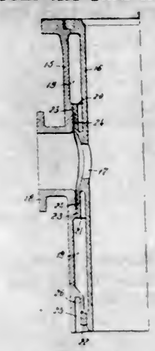
1. A perforating device comprising a base, a standard thereon provided with a guide opening, a punch supported in said guide opening having a lateral projection at one end, and an operating element normally engageable with said projection actuable to operate the punch, said punch being movable into a position to prevent projection engagement by said operating element.

2,405,151
ARYLAMINE SALTS OF ANTHRAQUINONE-SULPHONIC ACIDS AS PRINTING AIDS
Roy Herman Kienle and Chester Albert Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 1, 1943, Serial No. 493,137
6 Claims. (Cl. 8—70)

1. A color composition comprising a thio-indigo vat dye and an arylamine salt of a quinone-sulphonic acid, the arylamine being a member selected from the group consisting of aniline, toluidine and xylidine and the quinone-sulphonic acid being a member selected from the group consisting of the mono- and di-sulphonic acids of naphthoquinone and anthraquinone.

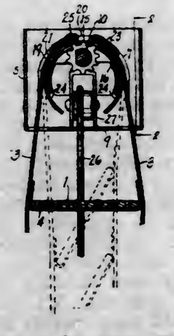
2,405,152
PACKING FOR CYLINDRICAL PARTS
Walter Kiichenmann, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application May 18, 1944, Serial No. 536,111
8 Claims. (Cl. 122—173)

1. In a packing for use in an annular space between inner and outer cylindrical parts, the improvement which comprises a ring on the packing having a surface which bears against one of the cylindrical parts in the annular space and an annular apron integral with the ring, means connecting said apron to the other of said cylindrical parts, said apron extending in the longitudinal direction of the cylindrical parts, being spaced inwardly from the inner opposite surfaces of the cylindrical parts and being of such length that the bearing surface of the ring is longitudinally spaced from the said means, whereby the



apron is free to yield under the pressure exerted by one of the cylindrical parts.

2,405,153
VENETIAN BLIND ADJUSTING MEANS
Guy W. Kirsch, Sturgis, Mich., assignor to Kirsch Company, St. Joseph, Mich., a corporation of Michigan
Application July 20, 1945, Serial No. 606,055
8 Claims. (Cl. 160—176)

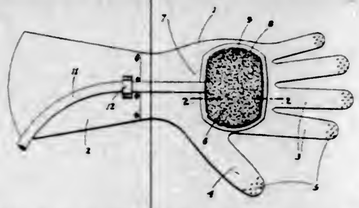


8. The combination in a Venetian blind including slat adjusting tapes, of an actuating shaft, a pinion on said shaft, a bearing member, and a curved rack rotatably mounted on said bearing member to coact with said pinion, there being an opening at each end of the rack teeth to provide for rotation of the pinion in one direction without imparting rotative movement to the rack member when either of said openings is in registry with said pinion.

2,405,154
DAIRYMAN'S GLOVE
Robert C. Logan, Dos Palos, Calif.
Application March 18, 1944, Serial No. 527,105
1 Claim. (Cl. 15—130)

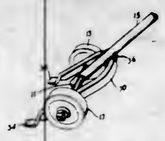
A dairyman's glove which includes a palm portion and finger sheaths extending from said palm portion, an outwardly facing sponge pad fixed on the palm portion only and of transverse dimensions no greater than those defined by such palm portion whereby to leave the finger sheaths free for flexing independently of and about the pad, an endless non-perforate resilient peripheral wall defining a holder for the pad, such wall being sealed at its lower edge to the palm of the glove and the bottom of the pad being spaced from the palm of the glove to form a chamber whereby

liquid supplied to the pad will filter therethrough and fill the chamber so that upon flexing of the finger sheaths about the pad the liquid in the



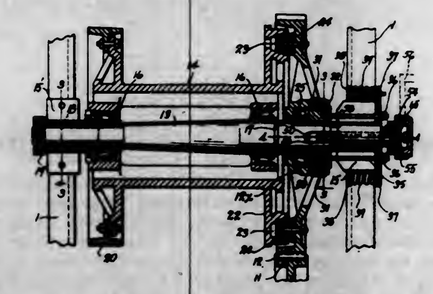
chamber will be diffused uniformly through and out of the outer surface of the pad, and means to supply a liquid to the pad.

2,405,155
HAND TRUCK
Waldo M. MacLaury, Cold Spring Harbor, N. Y.
Application September 23, 1944, Serial No. 555,464
1 Claim. (Cl. 214—65.4)



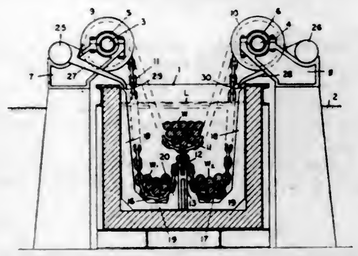
A hand truck comprising an elongated frame including a lever member having a handle at one end, a yoke shaped member formed of a bent metal strip attached to said lever member near the other end thereof with the ends of said yoke member extending in the same direction as said other end of said lever member, an axle mounted in holes intermediate the ends of the leg portions of said yoke member, supporting wheels on said axle, load gripping, twisted claws on the free ends of said yoke member, a load gripping hook, a flexible member having one end attached to said hook, and means for adjustably attaching said flexible member to said lever member to grip and lift the load between said hook and said claws when downward pressure is applied to said lever member at said handle.

2,405,156
HOIST
Sidney S. McIntyre, Sedro-Woolley, Wash.
Application September 27, 1944, Serial No. 555,958
5 Claims. (Cl. 254—187)



1. In a hoist of the character described, a frame structure including spaced bearings, a cross shaft fixedly mounted in said bearings, a cable winding drum and a driven gear wheel revoluble on the shaft between the bearings; said gear wheel being axially shiftable on the shaft and there being complemental clutch elements on the drum and gear wheel adapted to be frictionally engaged and disengaged by the shifting of the gear wheel in opposite directions, a collar slidable on the shaft and secured in the wheel hub for rotation of the wheel thereabout, spring means acting against the collar to move the wheel to disengage the clutch; said shaft having a diametric passage therein at the location of the wheel hub and having an axial bore from one end to said passage, a cross bar in the passage seated at its ends against the said collar, and pressure applying members disposed in the said bore and bearing against said cross bar and means threaded on the shaft against the said members to shift the gear wheel for engaging the clutch elements to drive the drum.

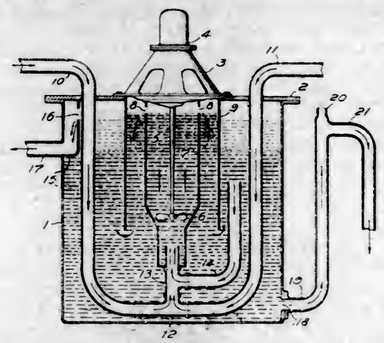
2,405,157
PICKLING APPARATUS
Stanley H. McKee, Youngstown, Ohio, assignor to Youngstown Welding & Engineering Co., Youngstown, Ohio, a corporation of Ohio
Application April 29, 1944, Serial No. 533,302
14 Claims. (Cl. 51—163)



1. A pickling apparatus for bars, rods, tubes and the like, comprising a tank, flexible slings for suspending a plurality of such pieces to be treated in such tank, and means for diverting said slings without holding such pieces, including a fixed member in said tank presenting an upper horizontal bearing edge adapted to be contacted by said slings, whereby the latter, on being lowered beyond the top of said bearing edge, are caused to fall into loops on each side thereof.

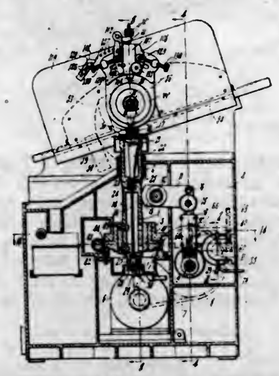
2,405,158
MULTIPLE CONTACT COUNTERCURRENT EXTRACTOR
Carl E. Mensing, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application January 16, 1945, Serial No. 573,129
2 Claims. (Cl. 23—270.5)

1. In an apparatus adapted to carry out countercurrent, stepwise, multiple-contact, solvent extraction: the combination of a closed chamber having a vertically-positioned impellor shaft located therein, said shaft extending downward from the cover of the chamber and terminating in an impellor adapted to produce an upward fluid thrust; a vertical sleeve surrounding said shaft and impellor, said sleeve having at least one overflow port near the top thereof; a baffle surrounding said sleeve and extending at least substantially to the top of the chamber, said baffle being open at the bottom and providing a passage vertically downward along the major portion of the length of said vertical sleeve; a plurality of converging inlet conduits joining a common conduit, said common conduit terminating within the said sleeve below said impellor; a fluid-conducting means having at least one inlet opening in the central space of the chamber outside said baffle and arranged to deliver fluid within



said sleeve below said impellor; an overflow means to the exterior of said chamber from the space outside of said baffle and outlet means from the bottom of said space, said outlet means being arranged to permit gravity flow and to retain an effective head of liquid above said impellor.

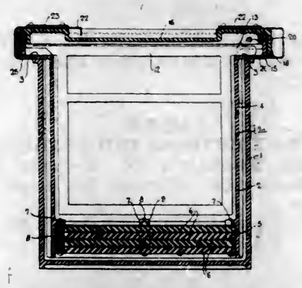
2,405,159
METHOD AND MACHINE FOR FINISHING THE TEETH OF GEAR SHAVING CUTTERS AND THE LIKE
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application May 15, 1941, Serial No. 393,554
18 Claims. (Cl. 90—8)



1. A machine for performing a finish cutting operation on the faces of gear teeth and similar objects, comprising a reciprocably mounted cutter having a cutting edge transverse to the direction of its reciprocating movement, means for supporting and rolling a work gear across the plane in which the path of said cutting edge lies with the axis of rolling movement transverse to the direction of cutting movement when crossing said plane, means for reciprocating the cutter a plurality of times during the rolling advance of a single tooth of the work, and means for shifting the cutter away from the work after completion of each cutting stroke, and into its cutting path prior to making its cutting strokes, whereby to avoid rubbing contact with the work during non cutting strokes.

15. The method of finishing gear tooth faces and analogous curved forms, which comprises effecting a rolling movement of a gearlike work piece like that of a gear rolling in mesh with a rack and reciprocating an edged cutter transversely to the translative component of such rolling movement, and so that the edge thereof travels in a path which intersects a side face of a tooth of the work piece, and the direction of reciprocation is in the crest-to-root dimension of the tooth, and the edge of the cutter is carried at each reciprocation beyond the limits of that portion of the work piece tooth which intersects the path.

2,405,160
PHOTOGRAPHIC DEVELOPING TANK
John F. Morse, Hudson, Ohio
Application March 27, 1943, Serial No. 480,865
5 Claims. (Cl. 95—90)

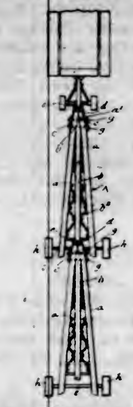


1. An apparatus for use in the development of negatives comprising an open-top tank for containing a developing solution, a holder for the negatives, said holder loosely fitting the interior of the tank and having lateral wings the underside of which rest upon the walls of the tank so that the holder is suspended therein, a negative-holding frame having lateral projections which rest upon the ledges formed by the upper sides of the wings, and passages at the bottom of the holder for permitting the liquid therein to pass into the interior of the holder, but to exclude light therefrom, and air vents at the top of the holder arranged to exclude light.

2,405,161
TRACTOR DRAWN FREIGHT HAULING CAR
Clarence Nicodemus, Chauvin, Alberta, Canada
Application October 29, 1943, Serial No. 508,187
In Canada July 30, 1943
8 Claims. (Cl. 280—33.2)

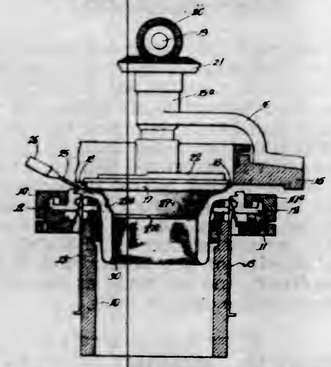
1. A freight hauling car comprising a frame including longitudinally extending side members connected together at one end and rearwardly diverging from one another at its rearward end, said frame being connected to an axle at said rearward end, a central draw bar connected to the side members adjacent their point of connection and terminating adjacent the rearward end of said car short of the rearward ends of said side members, the latter flanking the draw bar, means for rigidly supporting said draw bar a connector mounted in conjunction with the connected ends of said frame members and mounted to pivot thereon vertically, said connector including means for pivotally connecting with a towing vehicle for swingable movement in a horizontal plane the rearward end of said draw bar being adapted pivotally to connect with a towed vehicle, said rearward ends of the side

members being designed to engage the connecting portion of the towed vehicle when the towed



hauling car is towed through an arcuate path whereby to restrict the swinging movement of the towed vehicle.

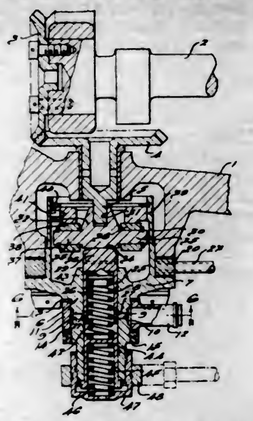
2,405,162
KNITTING METHOD AND APPARATUS
Bert Nyhuis, Kankakee, Ill., assignor to Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois
Application September 16, 1944, Serial No. 554,498
9 Claims. (Cl. 66—41)



1. The method of controlling the formation of the stitches in a fabric knitted by a circular knitting machine which consists in holding the fabric by air under pressure against a baffle located on the inside of the circular fabric.

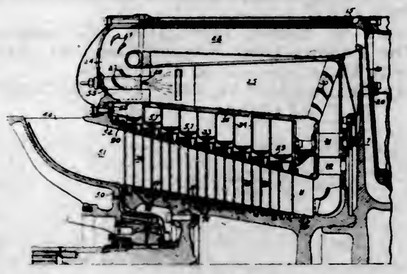
2,405,163
FUEL INJECTOR
Ben G. Parsons, Grosse Pointe, Mich., assignor to Fuel Charger Corporation, Detroit, Mich., a corporation of Michigan
Application December 14, 1944, Serial No. 568,177
11 Claims. (Cl. 103—2)

1. In a fuel pump having a casing, a longitudinal bore within said casing, means providing a plurality of fuel inlet ports through said casing communicating with said bore, means providing a plurality of delivery ports through said casing axially spaced from said inlet ports and communicating with said bore, a hollow delivery plunger disposed within said bore, means in said plunger communicating the interior of said plunger with said inlet ports, means in said plunger communicating the interior of said plunger with said delivery ports, and means to reciprocate and rotate said plunger to effect de-



livery of fuel through said delivery ports in succession.

2,405,164
TURBINE STATOR
Vladimir H. Pavlecka, Pacific Palisades, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application March 25, 1941, Serial No. 385,105
5 Claims. (Cl. 253—78)



1. A turbine stator comprising a frame having an interior cylindrical seat formed thereon, a blade support ring press fitted into said seat, a circular row of radial turbine blades mounted on one side of said support ring, and a labyrinth seal seat formed on the other side of said support ring, said support ring having a resilient cantilever flange formed thereon to engage said seat.

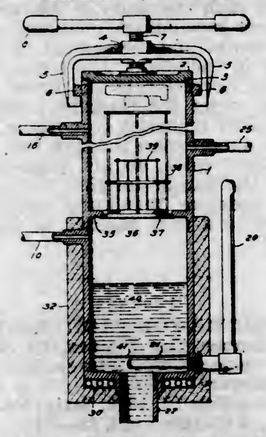
2,405,165
PROCESS FOR DYEING OF SUEDE
Foster Lewis Pepper, Glenside, Pa., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 1, 1942, Serial No. 437,193
8 Claims. (Cl. 8—13)

3. A single bath process for dyeing leather which comprises preparing an aqueous solution of a compound having at least one diazotizable group and capable of being exhausted from the solution upon the leather, said solution having a pH of about 7.0–8.5; thoroughly wetting the leather to be dyed in a bath of the solution at about 50°–60° F.; adding to the bath about one-half to two-thirds the quantity of a strong mineral acid required to produce a pH of from about 3.0–4.0, adding the remaining acid after about 20–40 minutes; adding to the bath an alkali metal nitrite, in amount slightly in excess of the quantity required to form nitrous acid and diazotize the diazotizable group; allowing sufficient time for the diazotization of the diazotizable group to become substantially complete; adding to the bath a reagent capable of eliminating the effect upon a subsequently-added developer of any residual nitrous acid after diazotization; adding a developer and agitating the bath for sufficient time to insure coupling of the developer with the diazo group, whereby the desired color is produced as a substantially insoluble compound before the leather is subjected to any draining and washing operations.

2,405,166
PROCESS FOR WAVING HAIR
Raymond E. Reed, David Tenenbaum, and Marion Den Beste, St. Paul, Minn., assignors to Raymond Laboratories, Inc., St. Paul, Minn., a corporation of Minnesota
No Drawing. Application February 11, 1942, Serial No. 430,474
4 Claims. (Cl. 132—31)

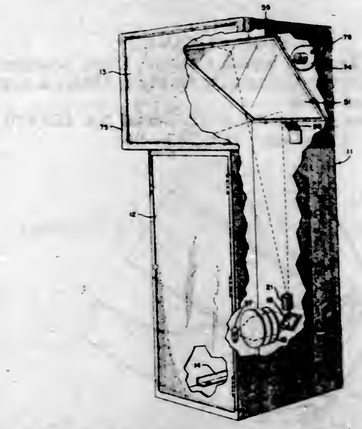
1. The process of waving hair which comprises treating the hair simultaneously with a reducing agent for keratin and with a detergent, for a period of approximately ten to fifteen minutes, rinsing the reducing agent and the detergent from the hair, forming the hair into a desired configuration and exposing the moist hair, which is substantially free of reducing agent, to a temperature of at least approximately 180° F.

2,405,167
APPARATUS FOR FLUID TREATING UNDER CONTROLLED CONDITIONS
George Lewis Royer and Edwin Ira Stearns, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application September 3, 1943, Serial No. 501,126
5 Claims. (Cl. 68—3)



1. In a pressure-treating device, adapted to contact a sample and fluid under controlled temperature and pressure conditions, a reaction vessel in combination with means for supplying heat to said vessel, movable means for separating said vessel into two separate superposed sections, external means for admitting fluid under pressure into the lower section whereby a pressure differential is created between said sections means within the vessel adapted to hold said separating means in operative position when the pressure differential exists between said sections, and external means for independently admitting sufficient fluid under pressure into the upper section to overcome said pressure differential, whereby said separating means is moved from operative position; said separating means comprising an impervious plate and said means for holding the separatory means in operative position comprising a shoulder on the inner surface of the reaction vessel, said shoulder being adapted to form a pressure tight fit with said plate.

2,405,168
PROJECTOR FOR PAGE PRINTERS
Reginald G. Schuler, Highland Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1940, Serial No. 346,003
6 Claims. (Cl. 88—24)

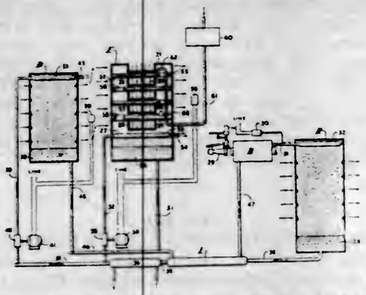


1. In combination, a printing device, a type carriage movable to form character spaces, means for directing record material through said device comprising means for guiding said material in a vertical plane above and adjacent to said type carriage, means for producing a printed record on said record material comprising a rotatable platen, said platen comprising an inverted conical frustum, said frustum tiltably positioned so that its peripheral surface adjacent said record material is substantially parallel to said record material, whereby a minimum portion of said platen is exposed to the field of projection, means effective under certain operating conditions to change the rotational position of said platen incommensurately, and means comprising a projection system for projecting onto a screen images of the characters produced on said record material.

2,405,169
REFRIGERATION
Otis B. Sutton, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 6, 1942, Serial No. 449,897
9 Claims. (Cl. 62—6)

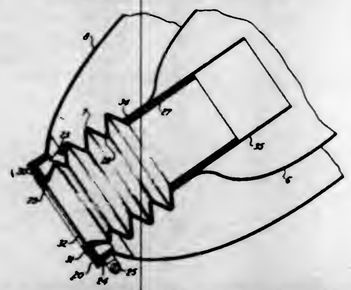
1. That improvement in the art of air conditioning which includes the steps of dehumidifying air to be conditioned by passing such air in contact with a body of an absorbent for water, subsequently cooling said air by passing it in heat exchange relation with a body of evaporating water, promoting the evaporation of said water by absorbing water vapor above said water in

another body of said absorbent, uniting said bodies of absorbent and absorbed water vapor



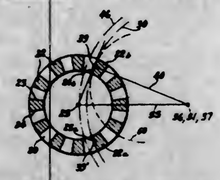
and removing water vapor from said absorbent by passing the absorbent in contact with air.

2,405,170
SUCTION CLEANER
Charles G. Troxler, North Canton, Ohio, assignor to The Hoover Company, Canton, Ohio, a corporation of Ohio
Application August 20, 1942, Serial No. 455,470
5 Claims. (Cl. 285—90)



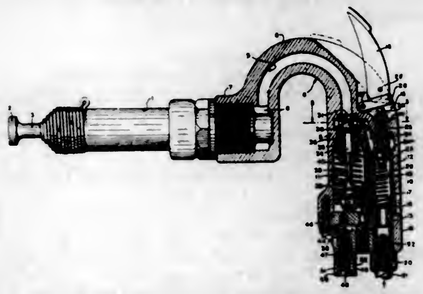
1. In a bag mounting for a suction cleaner dirt bag, a resilient flexible air passageway formed for a part of its length as a bendable bellows with accordion-like pleats and for an adjacent part of its length as a normally cylindrical conduit deformable under a manually applied transverse collapsing force to enable it to be inserted within a dust bag inlet and having sufficient expansive force to clamp in place against normal operating forces a dust bag so positioned, said parts of said mounting having sufficient rigidity and strength as to support the attached end of a dust bag unaided and to prevent collapse under the weight of said supported bag and yet sufficiently flexible within said bellows to permit bending.

2,405,171
FACE CLUTCH
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application October 1, 1942, Serial No. 460,331
17 Claims. (Cl. 192—67)



1. A toothed face clutch member having side tooth surfaces of less than six degrees pressure angle which are longitudinally curved and which are portions of surfaces of revolution whose axes are inclined to the axis of the clutch member.

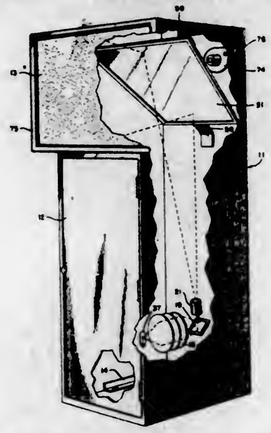
2,405,172
RIVETER
Basil J. Yanchenko, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 10, 1944, Serial No. 525,877
1 Claim. (Cl. 78—48)



A pneumatic riveter including a body, a shank projecting from the body, a grip handle carried by the shank, a control member mounted on the handle, the handle being formed with parallel bores opening through the butt end thereof, and with a transfer passage from one bore to the other, the shank being formed with a passage leading from the transfer passage, and the shank being formed with a passage leading from the transfer passage to the body of the riveter, a control valve including a movable member located in said one of the bores, connections between the control member and the valve member to operate it, timer mechanism located in the other of the bores for timing the period of operation of the riveter upon each operation of the control member, the timer mechanism including a normally open valve controlling the passage of air through the passage in the shank, the timer valve being closed by the operation of the timer, and a by-pass leading from the transfer passage to the timer, the timer including a movable part operated by the air pressure through the by-pass, to close the timer valve, an air connection at the butt end of the handle for the control valve and adjustable pressure regulating means for the timer including a part exposed at the butt end of the handle.

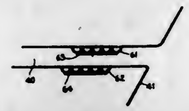
2,405,173
PROJECTOR FOR PAGE PRINTERS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1940, Serial No. 346,004
8 Claims. (Cl. 88—24)

1. In combination, a printing device having a carriage movable to form character spaces, means for directing record material through said device comprising means for guiding said material in a vertical plane above and adjacent to said carriage, means comprising a projection system for projecting onto a screen images of the characters produced on said record material, means for case shifting said guiding means, and means comprising positive stop elements and overcentering means operable therebetween to accelerate shifting movement of said guiding means independently of said case shifting means to minimize the



optical effect of said shifting movement upon the image.

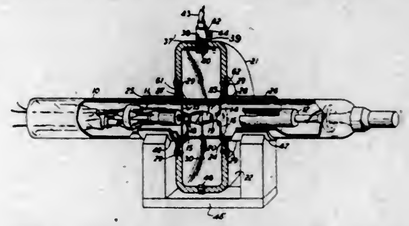
2,405,174
TRANSMISSION CONTROL NETWORK
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application May 27, 1942, Serial No. 444,660
4 Claims. (Cl. 178—44)



4. A high frequency transmission line system comprising a high frequency transmitting line including an impedance matching network comprising conductive means having a given characteristic impedance connected to a conductor of said line, said conductive means having an overall length determined from the selection of a characteristic among those existing between standing wave ratio in said transmission line and network lengths, for different ratios between characteristic impedance of said line and of networks including approximately said given characteristic impedance, and said conductive means having a position along said line with respect to the standing wave maximum of standing waves in said line determined by the selection of one among the existing characteristics between network lengths and positions for different ratios between the characteristic impedance of said line and of networks including approximately said given characteristic impedance, said conductive means comprising a series of looped wires each terminating at said conductor.

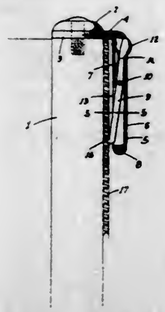
2,405,175
ULTRA HIGH FREQUENCY OSCILLATOR
Alva Eugene Anderson, New York, N. Y., and Arthur L. Samuel, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 4, 1941, Serial No. 386,794
7 Claims. (Cl. 250—27.5)

1. An ultra-high frequency electronic device comprising a cavity resonator substantially closed against the external radiation of power, said cavity resonator comprising a single cavity bounded by a single surface having a pair of relatively small apertures therein, said resonator being of relatively large dimensions and containing a relatively narrow drift tube positioned within said cavity resonator coaxial with a line



passing through said apertures, said drift tube being open at both ends, means for passing an electron stream through said chamber and said drift tube along the above-defined axis, said drift tube being only sufficiently large to accommodate the electron stream, and electrode means for accelerating the electrons in said stream.

2,405,176
SAFETY CLIP
Roy E. Barber, Berkeley, Calif.
Application June 19, 1944, Serial No. 540,968
2 Claims. (Cl. 24—11)

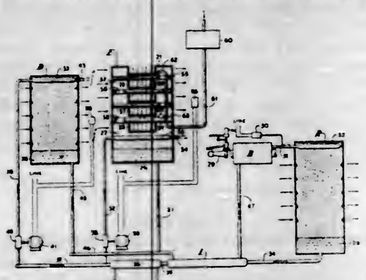


1. A safety clip for a pen or pencil comprising an elongated, hollow finger-like housing, means to secure the housing to the upper portion of a pen or pencil with the housing extending in substantial parallelism with such pen or pencil, the inner face of the housing being open at the bottom portion thereof, and the outer face of the housing being open at the top portion thereof, a lever pivoted intermediate its ends at a point in the housing intermediate the openings therein, yieldable means normally maintaining the upper and lower ends of the lever projected out of the top and bottom openings, respectively, of the housing, a garment engaging means on the lower end of the lever and a finger-engaging piece on the upper end of the lever.

2,405,177
STUD WELDING
John Collier Beckett, United States Navy
Application July 22, 1943, Serial No. 495,786
6 Claims. (Cl. 219—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

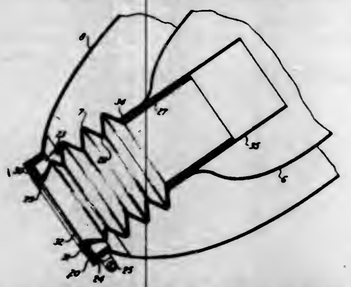
5. A welding device comprising a casing, foot means fixedly attached to said casing and pro-

another body of said absorbent, uniting said bodies of absorbent and absorbed water vapor



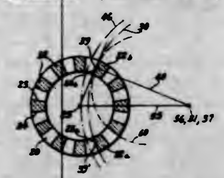
and removing water vapor from said absorbent by passing the absorbent in contact with air.

2,405,170
SUCTION CLEANER
Charles G. Troxler, North Canton, Ohio, assignor to The Hoover Company, Canton, Ohio, a corporation of Ohio
Application August 20, 1942, Serial No. 455,470
5 Claims. (Cl. 285—90)



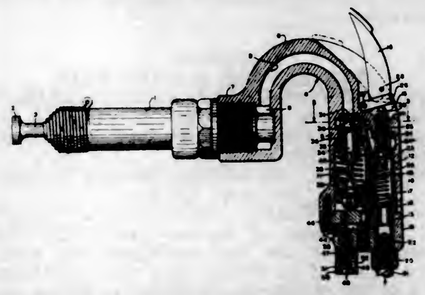
1. In a bag mounting for a suction cleaner dirt bag, a resilient flexible air passageway formed for a part of its length as a bendable bellows with accordion-like pleats and for an adjacent part of its length as a normally cylindrical conduit deformable under a manually applied transverse collapsing force to enable it to be inserted within a dust bag inlet and having sufficient expansive force to clamp in place against normal operating forces a dust bag so positioned, said parts of said mounting having sufficient rigidity and strength as to support the attached end of a dust bag unaided and to prevent collapse under the weight of said supported bag and yet sufficiently flexible within said bellows to permit bending.

2,405,171
FACE CLUTCH
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application October 1, 1942, Serial No. 460,331
17 Claims. (Cl. 192—67)



1. A toothed face clutch member having side tooth surfaces of less than six degrees pressure angle which are longitudinally curved and which are portions of surfaces of revolution whose axes are inclined to the axis of the clutch member.

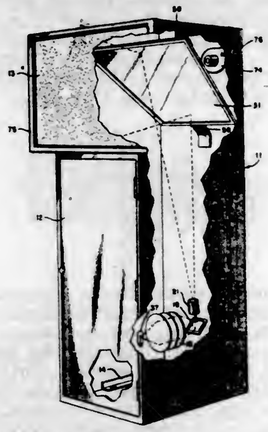
2,405,172
RIVETER
Basil J. Yanchenko, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 10, 1944, Serial No. 525,877
1 Claim. (Cl. 78—48)



A pneumatic riveter including a body, a shank projecting from the body, a grip handle carried by the shank, a control member mounted on the handle, the handle being formed with parallel bores opening through the butt end thereof, and with a transfer passage from one bore to the other, the shank being formed with a passage leading from the transfer passage, and the shank being formed with a passage leading from the transfer passage to the body of the riveter, a control valve including a movable member located in said one of the bores, connections between the control member and the valve member to operate it, timer mechanism located in the other of the bores for timing the period of operation of the riveter upon each operation of the control member, the timer mechanism including a normally open valve controlling the passage of air through the passage in the shank, the timer valve being closed by the operation of the timer, and a by-pass leading from the transfer passage to the timer, the timer including a movable part operated by the air pressure through the by-pass, to close the timer valve, an air connection at the butt end of the handle for the control valve and adjustable pressure regulating means for the timer including a part exposed at the butt end of the handle.

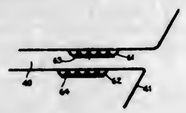
2,405,173
PROJECTOR FOR PAGE PRINTERS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1940, Serial No. 346,004
8 Claims. (Cl. 88—24)

1. In combination, a printing device having a carriage movable to form character spaces, means for directing record material through said device comprising means for guiding said material in a vertical plane above and adjacent to said carriage, means comprising a projection system for projecting onto a screen images of the characters produced on said record material, means for case shifting said guiding means, and means comprising positive stop elements and overcentering means operable therebetween to accelerate shifting movement of said guiding means independently of said case shifting means to minimize the



optical effect of said shifting movement upon the image.

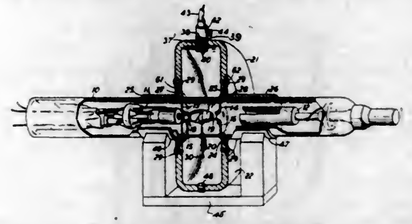
2,405,174
TRANSMISSION CONTROL NETWORK
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application May 27, 1942, Serial No. 444,660
4 Claims. (Cl. 178—44)



4. A high frequency transmission line system comprising a high frequency transmitting line including an impedance matching network comprising conductive means having a given characteristic impedance connected to a conductor of said line, said conductive means having an overall length determined from the selection of a characteristic among those existing between standing wave ratio in said transmission line and network lengths, for different ratios between characteristic impedance of said line and of networks including approximately said given characteristic impedance, and said conductive means having a position along said line with respect to the standing wave maximum of standing waves in said line determined by the selection of one among the existing characteristics between network lengths and positions for different ratios between the characteristic impedance of said line and of networks including approximately said given characteristic impedance, said conductive means comprising a series of looped wires each terminating at said conductor.

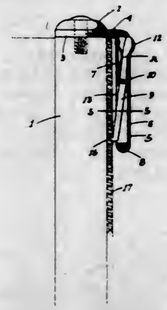
2,405,175
ULTRA HIGH FREQUENCY OSCILLATOR
Alva Eugene Anderson, New York, N. Y., and Arthur L. Samuel, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 4, 1941, Serial No. 386,794
7 Claims. (Cl. 250—27.5)

1. An ultra-high frequency electronic device comprising a cavity resonator substantially closed against the external radiation of power, said cavity resonator comprising a single cavity bounded by a single surface having a pair of relatively small apertures therein, said resonator being of relatively large dimensions and containing a relatively narrow drift tube positioned within said cavity resonator coaxial with a line



passing through said apertures, said drift tube being open at both ends, means for passing an electron stream through said chamber and said drift tube along the above-defined axis, said drift tube being only sufficiently large to accommodate the electron stream, and electrode means for accelerating the electrons in said stream.

2,405,176
SAFETY CLIP
Roy E. Barber, Berkeley, Calif.
Application June 19, 1944, Serial No. 540,968
2 Claims. (Cl. 24—11)

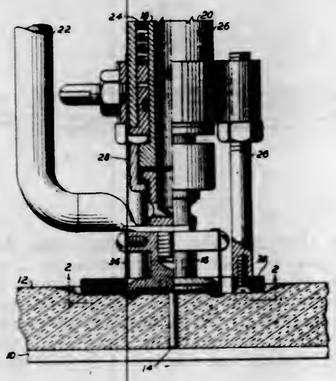


1. A safety clip for a pen or pencil comprising an elongated, hollow finger-like housing, means to secure the housing to the upper portion of a pen or pencil with the housing extending in substantial parallelism with such pen or pencil, the inner face of the housing being open at the bottom portion thereof, and the outer face of the housing being open at the top portion thereof, a lever pivoted intermediate its ends at a point in the housing intermediate the openings therein, yieldable means normally maintaining the upper and lower ends of the lever projected out of the top and bottom openings, respectively, of the housing, a garment engaging means on the lower end of the lever and a finger-engaging piece on the upper end of the lever.

2,405,177
STUD WELDING
John Collier Beckett, United States Navy
Application July 22, 1943, Serial No. 495,786
6 Claims. (Cl. 219—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

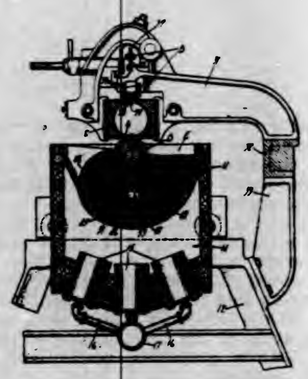
5. A welding device comprising a casing, foot means fixedly attached to said casing and pro-

viding a sole surface, means in said casing for supporting a flat-headed pin the point of which is to be welded to an object, said supporting means being movable in said casing and providing a shallow head-receiving recess at the outer end thereof, said recess having a lateral dimen-



sion much greater than its depth and much greater than the diameter of the pin to receive said flat head of the pin, the sole surface of said foot means being substantially in the plane of said shallow head-receiving recess when said supporting means is at the end of its travel in said casing.

2,405,178
SOLDERING MACHINE
George H. Bierman, River Forest, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 23, 1943, Serial No. 473,379
5 Claims. (Cl. 113—60)



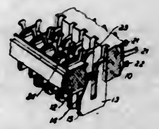
1. In a can body side seam soldering machine, the combination of a rotatable solder roll for applying molten solder to can bodies, a reservoir for retaining a supply of the molten solder and in which said solder roll is rotated, and a hollow paddle wheel rotatably mounted in said reservoir adjacent said solder roll and having frictional engagement with said solder roll by reason of its buoyancy in the solder so that said wheel is rotated by said solder roll for agitating the solder to control the accumulation of mush metal therein.

2,405,179
ELECTROMECHANICAL DEVICE
Robert Black, Jr., South Orange, and Frank F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 4, 1941, Serial No. 409,444
6 Claims. (Cl. 177—386)



1. A submarine signal device comprising a pair of diaphragms, one of which is directly exposed to the liquid medium, and in which each diaphragm has a central dome-shaped portion and a peripheral portion, the central portion of said one diaphragm being smaller than that of the other diaphragm and resting on and against a central area of the dome-shaped portion of said other diaphragm, and means to mount the diaphragm peripheral portions in different planes with an air space separating the diaphragm portions adjacent the dome-shaped central portions.

2,405,180
INSULATOR
David G. Blattner, Mountain Lakes, N. J., and Francis W. Clayden, Bronxville, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 4, 1944, Serial No. 525,114
5 Claims. (Cl. 173—328)



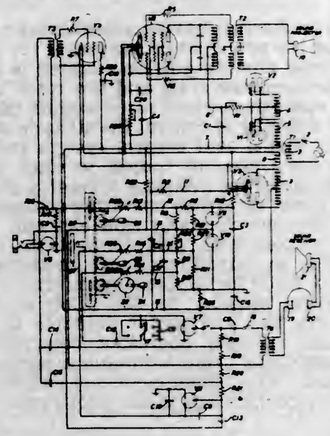
3. An electric terminal assembly comprising in combination, a pair of similar flat type springs each consisting of at least two integrally formed right angularly disposed substantially rectangular sections occupying a common plane, two of whose edges are joined by a continuous arcuate section, and a molded insulator interposed between said springs and comprising two integrally formed right angularly disposed sections of the same shape as the angularly disposed sections of said springs and making surface contact with corresponding sections of said springs so that the edges thereof are in alignment with corresponding edges of said spring sections when said springs and insulators are in assembled relation, and means for insuring the alignment of the edges of the sections of said springs and insulator and for precluding relative shifting of said springs and insulator comprising integral flanges on the upper and lower edges of the sections of said insulator extending laterally in either direction therefrom to define, on each side of said insulator, a recessed area corresponding in shape and depth to the shape and thickness of the right angularly disposed sections of said springs, one of said flanges including an arcuate section conforming to the contour of the arcuate edge sections of said springs.

2,405,181
FREQUENCY DETERMINING UNIT
Samuel Alexander Bokovoy, Verona, and Hans Stuntz, Nutley, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application August 30, 1944, Serial No. 551,984
7 Claims. (Cl. 171—327)



1. A frequency determining unit of the character described comprising a housing member provided with a socket for the reception of a resonator element, said housing being of molded insulating material and having integral, combined terminal pin and contact plate elements molded therein and having their contact portions extending within the socket, a crystal element and opposite electrodes associated therewith received within the socket with one electrode engaging one of the contact plates and a spring interposed to engage the opposite of said electrodes and the other of said contact plates for closing of the electrical circuit.

2,405,182
ULTRASONIC RANGING DEVICE
John H. Bollman, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 10, 1942, Serial No. 468,532
4 Claims. (Cl. 177—386)



1. In a signaling system wherein a signal is transmitted and an echo thereof is received, a signal generator, an automatically operating circuit for periodically placing said signal generator in operation, a timing circuit for taking said signal generator out of operation, a timing circuit for generating a signal for comparison with the echo of the signal transmitted by said signal generator, said timing circuits being started in operation by said automatically operating signal generator starting circuit simultaneously with the starting in operation of said signal generator, and an individual time interval adjustment control for each of said three circuits.

2,405,183
ENDOETHYLENE HALOCYCLOPENTANOINDANES
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 1, 1944, Serial No. 529,194
8 Claims. (Cl. 260—649)

4. A method for preparing an endoethylene halocyclopentanoindane which comprises reacting 1,4-endomethylene tetrahydrofluorene with an aqueous solution containing at least 20% of a hydrogen halide of a molecular weight of at least thirty-six at a temperature of about 65° C. to about 95° C.

5. As a new compound, an addition-rearrangement product of 1,4-endomethylene tetrahydrofluorene and a hydrogen halide of a molecular weight of at least thirty-six, said product being an endoethylene halocyclopentanoindane.

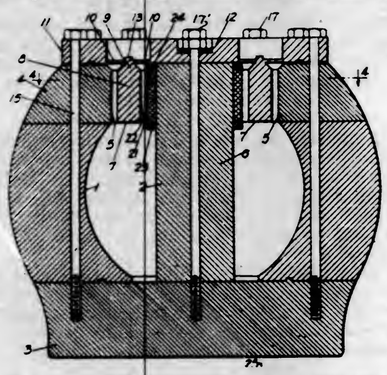
2,405,184
AROMATIZING WITH CONSUMPTION OF HYDROGEN
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application February 4, 1942, Serial No. 429,580
5 Claims. (Cl. 260—668)

1. In a process of treating non-aromatic hydrocarbons to convert at least a portion thereof to aromatic hydrocarbons, subjecting a non-benzenoid hydrocarbon in a catalytic zone in the presence of hydrogen to the action of an aromatizing catalyst at a temperature of 850° to 1100° F. and at a partial pressure of hydrogen not exeeding 300 pounds per square inch; adjusting the hydrogen partial pressure with reference to the temperature and the other conditions of the reaction so that the amount of hydrogen consumed during the aromatization is in excess of that produced in the process, and hydrogenation products including methane result from the feed of hydrogen to the catalytic zone in an amount greater than off-gas hydrogen as the result of the hydrogen partial pressure adjustment; segregating methane from the products from the reaction zone; converting the methane to hydrogen by steam and a catalyst; and returning hydrogen so formed to the catalytic zone to be consumed in the above recited aromatizing process.

2,405,185
SOUND TRANSMITTER AND RECEIVER
Hugo Benioff, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application October 8, 1941, Serial No. 414,131
4 Claims. (Cl. 177—386)

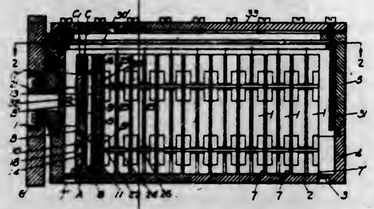
1. A sound transmitting and receiving device comprising a circular casing having an open end, a cover for said open end, said cover being cut away in an annular area thereof to leave an annular portion of relatively little thickness in comparison to the thickness of the cover to form a diaphragm, the diaphragm supporting an annular conductive mass element having a small portion in acoustic relation with the liquid propagating medium, radially centrally positioned in the annular diaphragm, and having a larger portion shielded from the medium, the larger portion having a tapered portion merging into the small portion, means providing a magnetic field

in which the larger portion of the conductive element is positioned, and means for energizing the



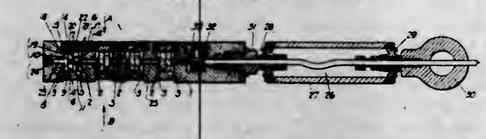
conductive element with variable current for transmitting or taking off variable current when the device acts as a receiver.

2,405,186
PIEZOELECTRIC VIBRATOR
Hugo Benioff, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application October 8, 1941, Serial No. 414,132
11 Claims. (Cl. 177—386)



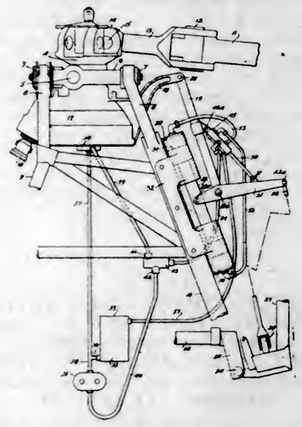
2. A piezoelectric oscillator for the production and reception of compressional waves comprising a longitudinal vibrating element having mounted in the sides thereof a plurality of piezoelectric crystals, said element together with said crystals forming a harmonic vibrator in which successive crystals along the vibrator at any instant of operation are vibrating in opposite phase, and electrodes attached to said piezoelectric crystals providing the desired instantaneous polarity to the crystals according to its instantaneous phase of vibration.

2,405,187
PIEZOELECTRIC TRANSDUCER
Hugo Benioff, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application November 7, 1941, Serial No. 418,229
6 Claims. (Cl. 177—386)



1. A piezoelectric wave transducer comprising a substantially rigid casing member having an open recess formed therein, a piezoelectric crystal having opposing end surfaces on which pressure variations are adapted to act for producing electrical potentials between electrodes positioned on surfaces on the sides of the crystal, and vice versa, one of said end surfaces being cemented to the bottom wall of said recess, a plug member formed with a central rigid section, a thin annular compliance web and a heavy rim, said rim element fitting the open end of said recess and being cemented therein, the under surface of said rigid section being joined to the other compressional end of said crystal by a layer of cement.

2,405,188
CONTROL SYSTEM FOR ROTATIVE WINGED AIRCRAFT
Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application July 5, 1941, Serial No. 401,156
12 Claims. (Cl. 244—17)

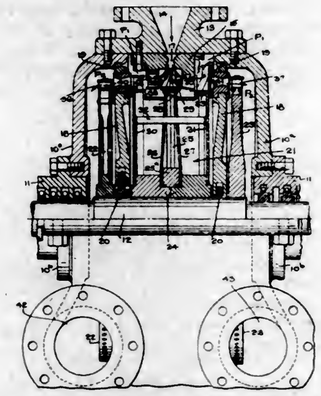


1. In an aircraft having a sustaining rotor constituting the principal lifting means for the craft, and a rotor mounting pylon adapted to carry the loads between the craft and the rotor, a control system operative on said rotor to shift the lift line thereof whereby to control the attitude of the aircraft in flight, said control system including a rotor control element subject to rotor loads and movable under the influence thereof, a pilot's control member, reversible operating connections between said member and said element, a servomotor coupled with said connections and with said pylon as a fixed reaction base and providing a control force for supplementing that applied to the control member by the pilot, and control means for the servomotor actuable by manual movement of said operating connections, the servomotor and pylon assuming a portion of the rotor loads, the remainder being carried by said operating connections to the pilot's control member.

2,405,189
STABILIZED EXPLOSIVE
Le Roy V. Clark, New Castle, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 11, 1944, Serial No. 521,976
6 Claims. (Cl. 52—4)

1. A stable explosive mixture including LNAG and an anhydrous salt capable of taking on water and ammonia of constitution chosen from the group consisting of sulfates and nitrates of copper, nickel and cobalt.

2,405,190
FLUID TURBINE
Lewis A. Darling, Elkins Park, Pa., assignor of eighty per cent to Peerless Turbine Corporation, Wilmington, Del., a corporation of Delaware
Application March 5, 1943, Serial No. 478,140
26 Claims. (Cl. 60—41)

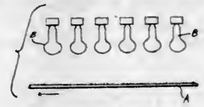


1. A turbine wheel bucket construction consisting of pre-formed sheet metal elements assembled together in nested relation to provide a series of bucket members each having enclosing side walls and arcuately shaped front thrust and back guide surfaces which merge along a line extending transversely of the plane of rotation of the turbine wheel to form the outer edge or lip of a bucket, each successive pair of said bucket members providing therebetween an external arcuate passage for receiving and directing therethrough an elastic driving fluid and said front thrust and back guide surfaces of each bucket member forming therewithin an internal passage for receiving and directing therethrough an elastic coolant fluid, the external and internal passages immediately associated with each bucket being wholly independent of each other and being provided with discharge outlets arranged in such close proximity to each other as to cause the fluids exhausted therefrom to mingle together in the region of said outlets.

4. A turbine wheel bucket construction consisting of pre-formed sheet metal stampings assembled together in circumferentially spaced relation to form a plurality of circumferentially spaced passages for an elastic driving fluid each having a single peripheral entrance and a pair of laterally spaced separate side exits, certain of said stampings providing arcuately shaped thrust and guide surfaces which merge along a line extending transversely of the plane of rotation of the turbine wheel to form the outer edge or lip of a bucket, the said thrust and guide surfaces constituting, respectively, the front and rear walls of said bucket.

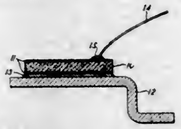
2,405,191
METHOD OF CURING ABRASIVE BINDERS AND ABRASIVE ARTICLES PRODUCED THEREBY
Edward P. Davis, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application February 24, 1942, Serial No. 432,144
10 Claims. (Cl. 51—298)

1. As a new article of manufacture, a granular coated web comprising a web backing material and granular particles adhesively attached thereto, said adhesive being substantially completely cured and relatively hard at and adjacent to the



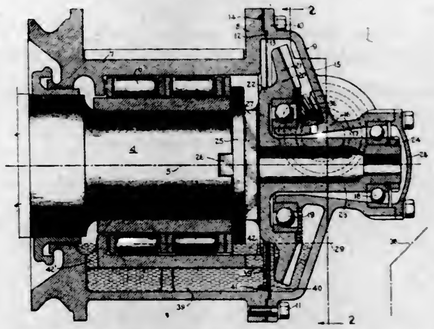
exposed surface of said adhesive, and being partially cured and softer and more yieldable at and adjacent to said backing material.

2,405,192
RESISTOR
Gustoff W. Davis, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 9, 1944, Serial No. 539,459
5 Claims. (Cl. 201—63)



1. A resistor device comprising a body of resistance material having at least one plane surface, a metallic mounting member having a plane surface comparable to that of the resistor body, said body and member each having relatively different coefficients of thermal expansion, and means comprising a relatively thick pad of soft metallic material interposed between said plane surfaces and adhering to each for securing the body and member together and compensating for their differences in thermal expansion.

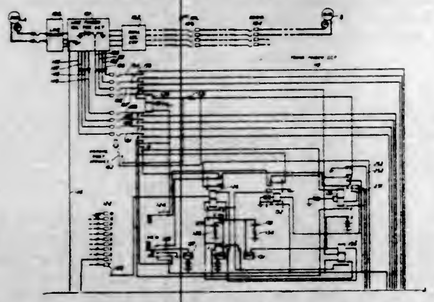
2,405,193
AXLE DRIVE, ESPECIALLY FOR RAILWAY VEHICLES
Walter B. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 4, 1944, Serial No. 516,929
8 Claims. (Cl. 105—96.1)



1. Axle drive unit comprising a gear having a gear portion attached to a stub axle by an intermediary radial portion, said stub axle extending axially substantially in one direction only from the plane of the gear portion, a supporting member for said stub axle and for a pinion engaging said gear portion, means adapted for taking up axial thrust in either direction between said stub axle with its gear portion and said supporting member, said pinion being arranged substantially exclusively on that side of the gear portion on which said stub axle is ar-

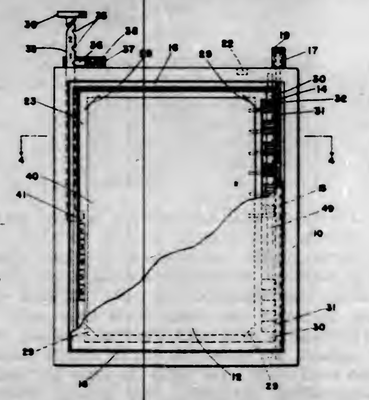
ranged, said supporting member being adapted for the removable attachment to an axle box at the end of an axle so that the stub axle faces outwardly and axially away from the end of the axle and so that said gear portion and said radial portion are arranged close to the end of the axle.

2,405,194
TELEPHONE SYSTEM
Joseph W. Dehn, Great Neck, and Myron C. Goddard, Garden City, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 20, 1943, Serial No. 495,489
7 Claims. (Cl. 179—18)



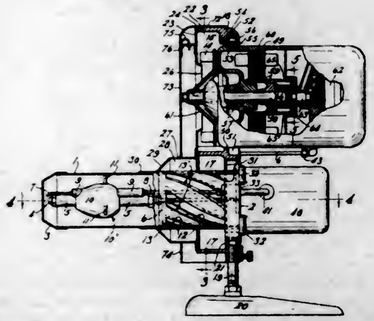
1. In an automatic switching telephone office, switches, groups of lines, a plurality of senders, a plurality of finders in groups each having one of said senders permanently connected thereto operable for connecting said senders to said lines, means responsive to a call over a line for operating a finder, the lines of each group preferring said finders in a particular order, mechanism for normally advancing the order of preference sequentially as said finders and senders are taken for use during busy load calling periods and an auxiliary device for arbitrarily advancing said order of preference during light load calling periods.

2,405,195
FILM MAGAZINE
Paul W. Duke, United States Navy
Application May 29, 1944, Serial No. 537,880
10 Claims. (Cl. 95—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A film magazine comprising a frame closed at the back, plates adapted to carry light sensitive material thereon, means hinging said plates in said frame about a common axis and in the same plane therewith and spring means for rotating said plates out of said frame.

2,405,196
OIL BURNER
Donald C. Elliot, West Springfield, and Oreas H. Paul, Chicopee, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application May 11, 1944, Serial No. 535,034
3 Claims. (Cl. 158—76)

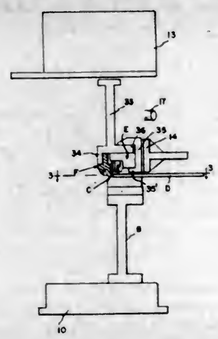


1. In an oil burner, an air tube having an internal peripheral surface which is smooth from one end to the other, a closure for one end of the tube, the other end of the tube being open and constituting the outlet for air for combustion, a pressure-atomizing nozzle mounted in the outlet end of the tube and adapted to emit a conical spray of atomized oil, said tube having in its periphery near its closed end and remote from said outlet a plurality of slots through which all the air for combustion is admitted to said tube, said slots extending generally lengthwise of the tube and being angularly spaced about the periphery of the tube in a circular series; a housing having near its lower end a chamber enveloping the slotted end of said tube, a scroll chamber near its upper end and a conduit between said chambers; and a fan in said scroll chamber, said conduit directing the air from the fan tangentially into said lower chamber whereby the air whirls therein around the slotted portion of said tube enters the tube through said slots and is uniformly distributed around the tube and formed into a whirling stream which is advanced through said tube substantially without turbulence to mix with the oil spray from said nozzle.

2,405,197
MACHINE FOR MAKING SUN SCREENS
Walkley B. Ewing, Frankfort, Mich., assignor to Ewing Development Company, Bay City, Mich., a corporation of Michigan
Application May 26, 1943, Serial No. 488,611
16 Claims. (Cl. 164—6.5)

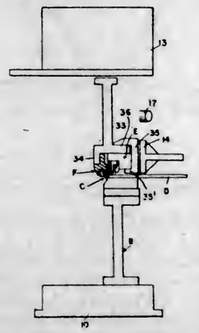
16. Sheet slitting means comprising oppositely facing punch and die members each including a series of shearing blades having successive overlapping portions one of each being cut away to form a face extending obliquely in the plane of the blade, which face registers with and is parallel to the corresponding portion of the opposite member, each of said oblique faces intersecting the face of the remainder of the blade in a line oblique to the shearing edge of the blade; the other blades of the series in the two members

being respectively upon opposite sides of said cut away portions to form in said sheets a series of overlapping slits with the sheared portions there-



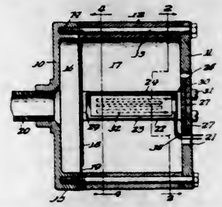
between slightly bent in the same direction about said oblique lines of intersection and clamped between said oblique faces to hold the same from distortion or stretching of the metal.

2,405,198
MEANS FOR CONTROLLING ADVANCEMENT OF STOCK
Walkley B. Ewing, Frankfort, Mich., assignor to Ewing Development Company, Bay City, Mich., a corporation of Michigan
Application May 26, 1943, Serial No. 488,612
5 Claims. (Cl. 164—6.5)



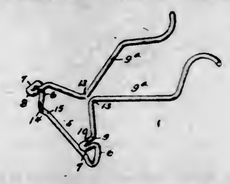
5. A machine for slitting sheets comprising a table over which the sheet is advanced under continuous forward pressure, a die member formed of a series of overlapping spaced shearing blades with the cutting edges thereof in the plane of the table and with depressed steps beyond each cutting edge, a punch formed of a corresponding series of overlapping spaced shearing blades for cooperating with the blades of the die member, and a plurality of resiliently yieldable stops carried by said punch spaced in advance of the corresponding blades and in the raised position thereof extending below the same to be in the path of the portion of the sheet lying on the table while clearing the depressed sheared portions thereof said steps in the downward movement of the punch depressing the sheared portions against said steps without stretching the metal, and a stripper carried by said punch for holding said sheet to the table during the withdrawal of the punch from the die member but releasing said sheet in the fully retracted position of the punch whereby said sheet will be successively advanced step by step following each punching operation.

2,405,199
FLUID PRESSURE GAUGE
William S. Faust and Harry J. Lavo, Williamsport, Pa., assignors to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application April 19, 1944, Serial No. 531,689
14 Claims. (Cl. 201—48)



1. A fluid pressure gauge comprising a casing provided at one of its ends with a chamber and means for admitting to said chamber fluid, the pressure of which is to be measured; a strain-sensitive column; a rigid abutment for one end of said column; a pressure responsive element in the casing exposed to the pressure of the fluid in the chamber and axially loading the other end of the column, for straining the column responsively to instantaneous fluid pressures in the chamber; and electrical strain sensitive filaments having loops extending longitudinally of and fixed on the column for controlling an electrical circuit responsively to the strains imparted to the column.

2,405,200
SAFETY RAZOR
Max Feldman, Miami Beach, Fla.
Application March 15, 1945, Serial No. 582,856
8 Claims. (Cl. 30—51)



1. A holder for safety razor blades comprising a transversely extending guard bar, upstanding extensions at the ends of said bar, runs extending forwardly from the upper ends of said vertical extensions, and rearwardly extending runs leading from the ends of the first named runs and being continuous with handles, fulcrum means associated with said handles through which movement of the rear ends of said handles toward each other acts to move the last named runs slightly away from each other, and means upon the inner faces of the last named runs for engaging the end portions of a razor blade to hold said razor blade in operative position to said guard bar.

2,405,201
METHOD OF FORMING CLOSED METAL CAPSULES
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 29, 1942, Serial No. 456,649
6 Claims. (Cl. 29—148.2)

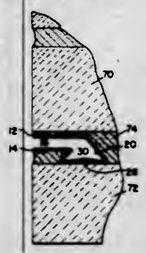
1. A method of die forming a tubular body having fittings providing passages at closed ends of

said body comprising the steps of cutting an annular laterally opening slot in the outer wall of each of two fittings, inserting one of said fittings into a recessed forming die with the annular slot extending in exposed position within the recess,



securing the other fitting in a second recessed forming die with the slot thereof exposed within said last recess, then forcing and contracting both ends of the tubular body and guiding and projecting said contracted ends endwise into the respective annular slots.

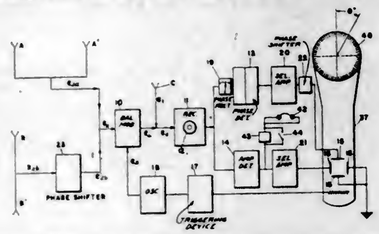
2,405,202
REGLET
John J. Fry, Bremerton, Wash.
Application July 22, 1944, Serial No. 546,159
8 Claims. (Cl. 108—26)



1. A flashing construction, comprising: a reglet structure of form-sustaining sheet material to be embedded in a wall and including an elongated frustum shaped member, spaced-apart walls standing outward on one sloping side of said member above the bottom thereof and forming a channel there-along and an inwardly directed shoulder, and a flashing including a facing strip to lie on the wall face in which the reglet may be embedded, said facing strip having a flange with a down-turned portion at the extremity thereof introducible in said channel, whereby the down-turned portion on the flange may engage said shoulder and retain the flashing strip in assembled relation to said reglet and alongside said wall.

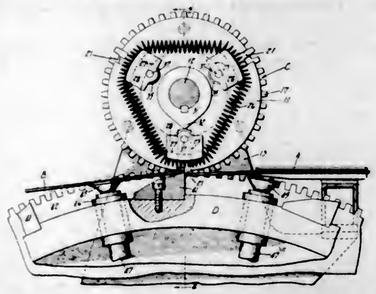
2,405,203
PHASE TYPE DIRECT INDICATING DIRECTION FINDER
Maxwell K. Goldstein, Washington, D. C.
Application September 3, 1941, Serial No. 409,391
35 Claims. (Cl. 250—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Means for determining the direction of a radio wave, comprising a pair of spaced antennas, means modulating the voltage induced by said wave in one of said antennas with a low frequency voltage, means superimposing on the resulting voltage the voltage induced in the other of said antennas, means amplifying the resultant of said superimposed voltages, and phase detecting means



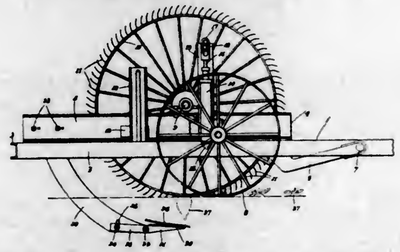
deriving from said amplified voltage a voltage having the frequency of said modulating voltage, and the amplitude of which is directly proportional to the sine of the angle of phase difference between said voltages induced in said antennas.

2,405,204
CUTTING DEVICE
Frank W. Goodrich, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 3, 1943, Serial No. 512,833
3 Claims. (Cl. 164—68)



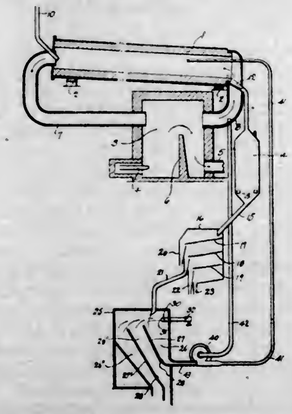
3. In a rotary shear for severing rigid metallic web material, the combination of a cylindrical rotatable head member having a plurality of transverse radial slideways formed therein and spaced around its outer periphery, a plurality of main cutter blades disposed one in each of said slideways and movable to a position projecting outwardly beyond the periphery of said head member, said cutter blades extending laterally of said head member at both ends thereof, a pair of cam rollers carried one on each end of each of said cutter blades, a pair of stationary edge cams disposed one adjacent each end of said head member and against which said cam roller operates for shifting said cutter blades successively in their slideways, a pressure block formed on the extended ends of each of said cutter blades, a pair of continuous tension springs located one at each end of said head member and bearing against all of the pressure blocks at each end of said head member for holding the cam rollers in engagement with said cams, a turret rotatable adjacent to and in synchronism with said head member, a plurality of auxiliary cutter blades rigidly secured on said turret and spaced around its periphery for cooperation with said main cutter blades to transversely cut the web material continuously while moving between said head member and said turret, and yieldable suction cups projecting radially from and around the periphery of said turret for engaging and holding successive cut sections of the web material relative to the turret periphery during and after severing of the web by the main and auxiliary cutter blades while the rigid web and cut sections thereof are respectively moving in different paths of travel.

2,405,205
BEET HARVESTER
George C. Gordon and Ernest F. Blackwelder, Rio Vista, Calif., assignors of twenty-one and one-fourth per cent to Claude A. Loucks, thirty-six and one-fourth per cent to Lloyd K. Schmidt, twenty-one and one-fourth per cent to Albert M. Jongeneel, and twenty-one and one-fourth per cent to George P. Du Bose
Application September 26, 1944, Serial No. 555,774
6 Claims. (Cl. 55—108)



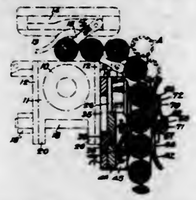
1. A beet harvester including a main frame supported for movement along the ground, a floating sub-frame on the main frame, a pair of spiked, beet pick-up wheels journaled in transversely spaced relation on the sub-frame for movement therewith, and a single sub-soil plow mounted in rigid connection with the sub-frame in symmetrical relation to and below said transversely spaced wheels; said plow including rearwardly divergent portions, said portions cooperating with corresponding wheels to loosen the earth therebeneath.

2,405,206
METHOD OF ACTIVATING PRIMARY CARBON
Worth C. Goss and Oliver P. M. Goss, Seattle, Wash., assignors to William A. Carlisle, Sr., Seattle, Wash.
Application April 29, 1940, Serial No. 332,280
4 Claims. (Cl. 252—298)



1. The method of activating primary carbon comprising progressively advancing a charge of material of granular form and of non-uniform density through an elongated activating chamber, maintaining said chamber under heat conditions designed for complete activation of the material in the intermediate range of density with an overactivation of material of lesser density and underactivation of material of greater density, delivering all of the activated material from the chamber, separating the granules into a plurality of classifications according to size, separating the under activated granules from the others and returning the under-activated granules into the chamber for additional activation at a location advanced in the chamber that determines an additional treatment that will cause the returned material to be brought to a degree of activation substantially equal to that of the material of intermediate range of density.

2,405,207
GUN FEED MECHANISM
Samuel G. Green, Gray, Ga.
Application July 29, 1942, Serial No. 452,764
7 Claims. (Cl. 89—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

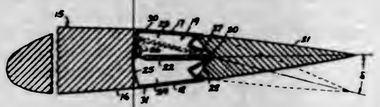


6. In combination with a machine gun having a frame including a feed passage, a barrel and barrel extension and a bolt reciprocable in the frame during gun firing, a main belt feeding device coupled to the bolt and reciprocable in the top portion of the frame transversely of the axis of the gun, said main feeding device constructed and arranged to feed the first few cartridges in the leading end of a belt on counterrecoil, and a holding pawl on the frame for the leading end of the belt for preventing retrograde movement thereof; the improvement consisting of an auxiliary belt feed comprising a base plate secured to the gun frame and provided with a feed slider guideway, a feed slider reciprocable in said guideway, a feed pawl pivoted in said slider, a belt guide opposite the feed slider guide and having a holding pawl pivoted therein above said feed pawl, a two-arm lever pivotally mounted adjacent one of the plates of the gun frame and having one arm connected with the feed slide and the other with the barrel for operating said lever to operate the feed slide to lift the weight of the belt below said feed pawl upon recoil of the barrel, said feed pawl and holding pawl of the auxiliary feed being so coordinated with the feeding pawl of the main feeding device as to occasion a slack in the belt between the holding pawl of the auxiliary feed and the feeding pawl of the main feeding device.

2,405,208
CONTROL-FORCE REDUCING DEVICE
Thomas A. Harris, Hampton, Va.
Application January 20, 1942, Serial No. 427,464
2 Claims. (Cl. 244—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An airfoil including a main body, a trailing control flap mounted for swinging movement

relative to the main body and about an axis substantially transversely of the direction of airflow, said main body including a space between its outer surfaces forwardly of said axis, a movable partition dividing said space into chambers adjacent to each of said outer surfaces, said partition and control flap being connected for move-



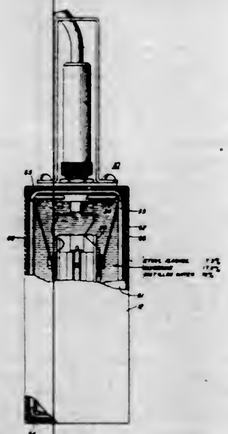
ment of either one responsive to movement of the other, and vent passageways in said outer surfaces connecting said chambers with the corresponding exterior sides of the airfoil respectively at zones within 25% of the chordal distance forwardly of the juncture of said trailing control flap with the main body of said airfoil.

2,405,209

SUBMARINE SIGNAL DEVICE

William R. Harry, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 3, 1942, Serial No. 449,605
4 Claims. (Cl. 177—386)



4. A signaling device comprising a liquid-filled container in which a signal wave translating unit is supported, the liquid containing ethyl alcohol and glycerine in such proportions that together they have substantially the same density and compressibility as water.

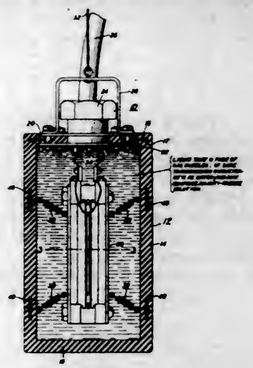
2,405,210

SUBMARINE SIGNAL DEVICE

Alfred H. Inglis, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 3, 1942, Serial No. 449,584
3 Claims. (Cl. 177—386)

1. A submarine signal detector comprising a substantially fluid-tight container transparent to submarine signal waves, a signal wave translating unit within said container, said unit being of the type including a moving coil disposed in a narrow magnetic gap in which gas bubbles tend to collect and interfere with the response of the unit when the latter is submerged, means to support said unit in spaced relation to said container, and a particle-free, gas bubble-free liquid filling



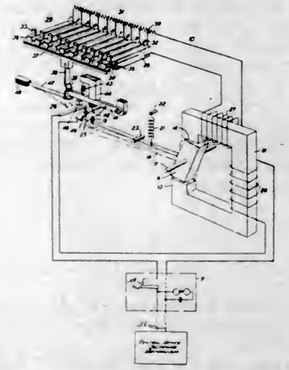
the container and completely surrounding said unit and being in contact with said moving coil.

2,405,211

COMMUNICATION SYSTEM

Ralph V. L. Hartley, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 16, 1942, Serial No. 451,139
10 Claims. (Cl. 179—90)



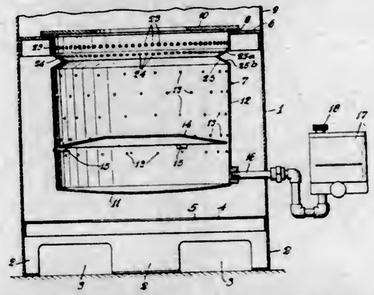
4. A signal transmitter for transmitting variable length pulses over a line circuit comprising, in combination, an electromagnet having a core, primary and secondary windings carried by said core and an armature, pulsing contacts serially including said primary winding in the line circuit to effect the operation of said armature, manually operable means for operating said contacts to disconnect said primary winding from said line circuit, the operation of said contacts initiating the transmission of a pulse over the line circuit and the deenergization of said electromagnet, means also responsive to the operation of said manually operable means for including a resistance in series with said secondary winding concurrently with the operation of said contacts whereby the deenergization of said electromagnet is delayed for an interval of time, the length of which is determined by the magnitude of the said resistance, and means controlled by the armature of said electromagnet when deenergized for restoring said contacts, the restoration of said contacts terminating the transmission of the pulse.

2,405,212

HYDROXYLATING POT TYPE BURNER

Bruce Hayter, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois

Application November 15, 1943, Serial No. 510,306
6 Claims. (Cl. 158—91)



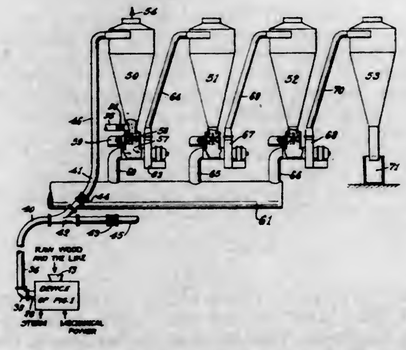
1. In a burner pot for pot type burners, a pot member having an open end, a circumferential pot wall and a closed end wall, said circumferential pot wall having therein a plurality of primary air inlet apertures, located at various distances from the ends of the pot, and a pair of rows of secondary air inlet apertures, located adjacent the open end of the pot, said pot having a circumferential inward offset in its side wall, one of said rows of secondary air inlet apertures being in the upper face of said offset, the other row being in the circumferential pot wall between said offset and the open end of the pot.

2,405,213

PROCESS AND APPARATUS FOR PRODUCTION OF FIBER FROM VEGETABLE MATTER

Clark C. Heritage, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware

Application August 3, 1940, Serial No. 351,066
5 Claims. (Cl. 92—6)



1. Apparatus for continuously producing fiber comprising in combination, a high pressure chamber for containing steam under pressure, means to feed high pressure steam into said chamber at a temperature to effect softening of lignocellulose in said chamber, rotary defibering means in said chamber, feeding means to feed lignocellulose vegetable matter into said chamber for defibering by said defibering means, said feeding means being arranged and constructed to prevent the exit of steam from said chamber, pressure-reducing means operated to open intermittently in rapid succession for providing an outlet from said chamber for steam and fiber, whereby small batches of loose fiber are discharged in rapid succession, and an open-ended conduit connected to and extending from said pressure-reducing means for containing fiber and steam under pressure and for conveying the fiber, said conduit having a length and cross-section which together are such as to permit said pressure-reducing means to effect a reduction in pressure and to cause a back pressure of steam in said conduit increasing from the open and discharge end of said conduit to said outlet of said chamber, whereby said pressure-reducing means freely discharges fiber into said conduit and into an atmosphere of steam under a pressure which effects movement of the said small batches of fiber along the conduit to said discharge end while exposing all the fibers thereof to the steam in said conduit for a period of time during traverse of the conduit, the length of said conduit further being such that the time of exposure of fibers in said conduit to steam is longer than the time of exposure of lignocellulose to steam in said chamber.

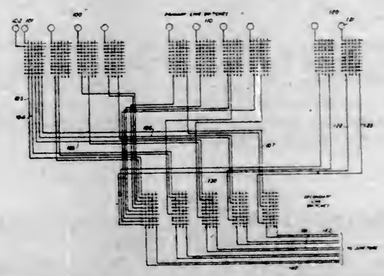
3. The method of continuously producing fiber which comprises continuously introducing lignocellulose material to be defibered into a pressure chamber, continuously defibering said lignocellulose mechanically in the presence of steam in said chamber and in the absence of a suspending quantity of water at a temperature above 212° F. and at which the lignocellulose becomes softened to permit ready defibration, while substantially continuously discharging steam and fiber from said chamber into an elongated laterally confined space and reducing the pressure of the steam at said discharge, while continuously moving said fiber along said space and discharging said fiber from said space by the reduced pressure of said steam into a region of pressure still lower than said reduced pressure, and while employing the length of said space to create a pressure of steam increasing in the direction from said region to said chamber, whereby thermal action in the presence of steam is effected on all the fiber in said space to alter its composition as it moves along said elongated space.

2,405,214

CALL DISTRIBUTING SYSTEM

Bernard D. Holbrook, Madison, and Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

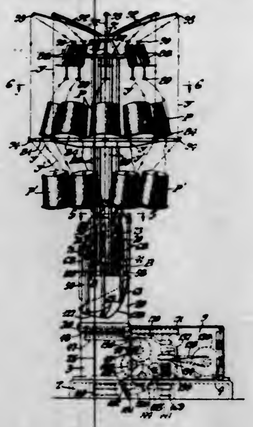
Application April 10, 1945, Serial No. 587,550
10 Claims. (Cl. 179—18)



1. In a telephone system, a plurality of subscribers' lines arranged in groups, a primary cross bar switch for each group of lines, a set of select magnets common to said primary switches and a set of hold magnets individual to said switches, a

secondary cross bar switch, links connecting said primary switches with said secondary switch, a plurality of trunks outgoing from said secondary switch, said secondary switch having select magnets and hold magnets, a control circuit common to all said switches, means responsive to the initiation of a call on one of said lines to mark a group conductor and a unit conductor, a set of relays in said control circuit, means to connect said relays to said group conductors to identify and record the group of the calling line, means to connect said relays to said unit conductors to identify the calling line and to operate the corresponding primary switch select magnets, means to select an idle link having access to an idle trunk, means to seize said trunk effective only if said select magnets are operated, and means under the control of said seized trunk to operate a hold magnet in said secondary switch and in said primary switch to complete a connection between said calling line and said trunk.

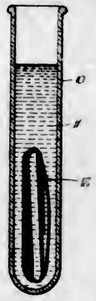
2,405,215
WINDING MACHINE
Walter V. Jacobson, Apponaug, R. I., assignor to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts
Application March 9, 1944, Serial No. 525,747
21 Claims. (Cl. 242—32)



1. In a winding machine, means for supporting textile cores arranged in a circle, means for rotating said cores, a rotary cam having a helical face, means for rotating said cam, means for feeding a plurality of yarns across the helical face of the cam to cause it to traverse the yarns lengthwise of the cores to wind cops or bobbins thereon, means for traveling the cores circumferentially of the cam, and means operative during the travel of the cores for effecting relative axial displacement between the cores and cam to progressively advance the zone of traverse longitudinally of the cores.

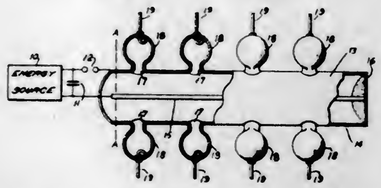
2,405,216
PROCESS FOR PACKAGING SURGICAL STRING MATERIAL
George Josh, Crown Point, Ind., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1941, Serial No. 391,618
14 Claims. (Cl. 128—335.5)

1. The process of preparing a sterilized surgical string package which comprises heating surgical string disposed within an open container, said string being immersed in a water-immiscible fluid containing a lower-boiling liquid having a boiling point higher than that of water and being vaporizable below the sterilization temperature and a higher boiling liquid having a boiling point higher



than the sterilizing temperature, until a substantial portion of said lower-boiling liquid is vaporized, thereafter heating to sterilize the said surgical string immersed in the remaining liquid, removing the remaining liquid, adding a storing fluid to the container and sealing said container.

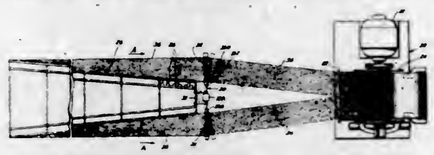
2,405,217
IMPULSE OSCILLATOR
Emile Labin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 13, 1941, Serial No. 383,116
7 Claims. (Cl. 250—17)



1. An electrical impulse generator comprising a two-conductor line, means for terminating one end of said line in its characteristic impedance, means for producing a damped electrical discharge periodically at the unterminated end of said line, whereby electrical impulses will periodically traverse said line to said characteristic impedance means, and a substantially closed resonant chamber coupled to said line to extract a portion of the energy at the resonant frequency of said chamber from said impulses traversing said line.

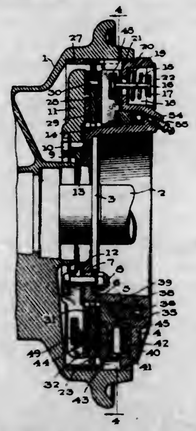
2,405,218
ELECTRICALLY OPERATED STOP MOTION FOR WARPING OR BEAMING PLANTS
Fritz Lambach, Tenafly, and Walter Siegel, Union City, N. J., assignors to Robert Reiner, Inc., Weehawken, N. J.
Application May 11, 1943, Serial No. 486,524
22 Claims. (Cl. 28—51)

1. An electrically operated stop motion for a warping or beaming plant comprising, a plurality of rows of control needles responsive to breakage of warp yarn, the control needles of each row being electrically connected with each other in parallel, a plurality of electrical indicating means, a plurality of electromagnetic controlling means, a circuit breaking switch, a main needle control circuit including in series one of said rows of control needles one of said electrical indicating means one of said electromagnetic controlling means and said circuit breaking switch, a plurality of additional needle control circuits, each of said additional needle control circuits including in series another of said rows of control needles another of said electrical indicating means and another of said electromagnetic controlling means, each of said additional needle control circuits being electrically connected in parallel with said main needle control circuit, an electrical stop control for a stoppage of the warping or beaming plant upon an actuation of said stop control, said circuit breaking switch being controlled by said electrical stop control so as to interrupt said main needle control circuit upon an actuation of said stop con-



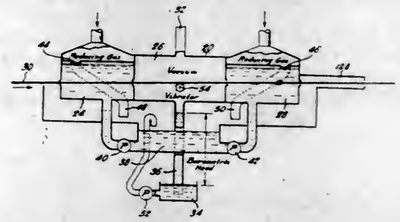
trol, said electrical stop control being included in said main needle control circuit so as to be actuated upon a closing of a needle control circuit by a control needle in response to breakage of warp yarn, a plurality of needle control holding circuits associated with said plurality of needle control circuits, each needle control holding circuit being electrically connected in parallel with a portion of the associated needle control circuit including the electromagnetic controlling means and the circuit breaking switch, and a needle control holding switch arranged in each needle control holding circuit, each needle control holding switch being normally open and being controlled by the electromagnetic controlling means of the associated needle control circuit so as to be closed upon a closing of the said needle control circuit in response to breakage of warp yarn.

2,405,219
DISK BRAKE
Homer T. Lambert, St. Joseph, Mich., assignor to Lambert Brake Corporation, St. Joseph, Mich., a corporation of Michigan
Application May 28, 1943, Serial No. 488,864
6 Claims. (Cl. 188—72)



1. In a disk brake of the class described, a supporting plate, a pair of brake members connected to said supporting plate in axially spaced relation to each other, with one of said brake members mounted for axial movement towards and away from the other, each of said brake members being composed of a plurality of separate disk sections forming a space between the adjacent ends of said sections, connecting means disposed between and extending loosely into recesses in the end faces of said disk sections for holding said sections in disk formation while permitting their thermal expansion and contraction independently of each other, means extending through the connecting means aforesaid for one of said brake members for attaching the same to said supporting plate, and a member to be braked disposed between the brake members aforesaid and axially movable with the axially movable brake member.

2,405,220
METHOD AND APPARATUS FOR APPLYING MOLTEN METAL ON STRIP STOCK
Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 29, 1941, Serial No. 376,512
24 Claims. (Cl. 117—114)

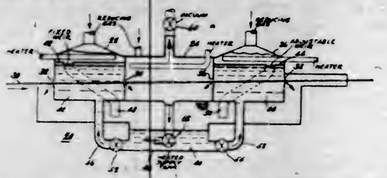


23. In a method of impregnating porous metal strip material continuously in a substantially flat condition the steps comprising: immersing a flat stiff strip of porous metal in molten metal contained within an impregnating chamber, passing the strip from the molten metal into a vacuum chamber for removing occluded air from the pores thereof, again immersing the strip in molten metal contained within a second impregnating chamber, said strip being maintained in substantially the same horizontal plane throughout all of said immersing and impregnating steps, and continuously supplying molten metal to each of said two impregnating chambers in sufficient quantities to provide the sole seal between said chambers and said vacuum chamber whereby said strip becomes impregnated with said molten metal.

2,405,221
METHOD AND APPARATUS FOR IMPREGNATING STRIP STOCK
Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 3, 1944, Serial No. 529,324
7 Claims. (Cl. 117—119)

7. In a method of continuously impregnating porous metal strip material in a substantially flat condition, the steps comprising: providing two impregnating chambers containing molten impregnating metal, providing an intermediate vacuum chamber connecting said impregnating chambers, all of said chambers being in substantially the same horizontal plane and so constructed that leakage can occur from said impregnating chambers into said vacuum chamber around said strip,

passing said strip through all of the chambers in substantially flat and unbent condition and in a single horizontal plane and beneath said impregnant in said impregnating chambers, supplying sufficient impregnant to each of said impregnating chambers to maintain the level of molten metal constant so that the impregnant leakage from said impregnating chambers into



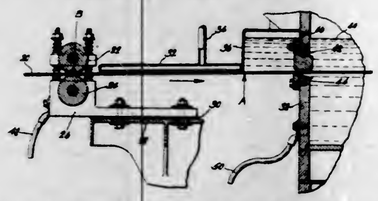
said vacuum chamber is compensated for by the new impregnant being supplied into said chambers whereby a seal is maintained between said chambers and said vacuum chamber and finally removing said leakage from said vacuum chamber whereby the evacuation from said chamber is at least partially accomplished by removal of said impregnant therefrom.

2,405,222

METHOD AND APPARATUS FOR MAKING COMPOSITE STRIP STOCK

Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 30, 1944, Serial No. 565,977
3 Claims. (Cl. 117—93)



1. In a method of continuously and progressively electrically heating and simultaneously fluxing the surface of a strip of metal for subsequent babbitting operations, the steps comprising: continuously passing strip material into a tank of molten babbitt, progressively heating a portion of said strip material by passing current through said strip material, from a point sufficiently remote from said tank to yield the desired resistance figure, into the babbitt in said tank whereby the strip is heated by the resistance thereof while simultaneously providing a reducing gas adjacent the upper surface of said heated strip, and continuously maintaining a relatively small body of the babbitt of sufficient volume and of sufficiently low resistance in contact with the top side only of the strip to assure passage of current through the babbitt into the strip prior to the entry of the strip into the main portion of the babbitt in said tank.

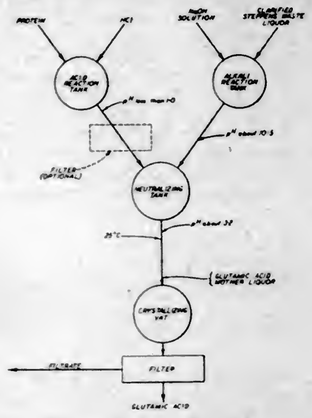
2,405,223

HYDROLYSATE-NEUTRALIZATION PROCESS

Paul D. V. Manning, Glencoe, Ill., assignor to International Minerals & Chemical Corporation, a corporation of New York

Application September 13, 1943, Serial No. 502,161
6 Claims. (Cl. 260—529)

1. The improved process of manufacturing d-glutamic acid, which comprises treating a supply of Steffen's waste with an alkali to effect hydrolysis of said waste material, but only to the extent necessary to produce d-glutamic acid, said alkali being present in operative concentration, and up to about 8% at the end of the hydrolysis, treating a supply of grain protein with an acid to effect hydrolysis of the protein, then



combining together the hydrolysates resulting from said treatments so as to produce a solution of the combined hydrolysates having a pH approximately the same as the iso-electric point of d-glutamic acid and then subjecting the combined hydrolysate solution to suitable treatment so as to separate therefrom the desired d-glutamic acid.

2,405,224

NOVEL SHOE CONSTRUCTION

Meyer Margolin, Elgin, Ill.

Application November 11, 1944, Serial No. 562,996
1 Claim. (Cl. 36—30)



In a shoe of the class described, an upper, an insole having a centrally disposed opening in its forepart, a middle sole having a similar opening registering with said opening in said insole, said insole comprising a resilient material and having a binding about the peripheral edges thereof, said middle sole having a binding about the peripheral edges, a rubber-like insert disposed in said common opening in the forepart of said insole and middle sole, and a sock lining overlying said insole and covering said filler.

2,405,225

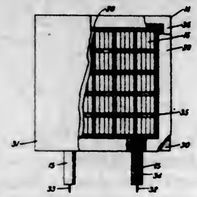
SUBMARINE SIGNAL SYSTEM

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 14, 1942, Serial No. 462,042
6 Claims. (Cl. 177—386)

1. A submarine signal projector for signal radiation over a broad band of frequencies with substantially constant conversion efficiency, comprising a plurality of 45-degree Y-cut Rochelle salt crystals connected in parallel, and electrical resistance means connected in series with said

crystals and having a resistive impedance substantially equal to the reactive impedance of



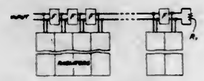
the crystals at a relatively low frequency in the band.

2,405,226

LOW FREQUENCY PROJECTOR OR HYDROPHONE

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 28, 1942, Serial No. 470,398
5 Claims. (Cl. 177—386)



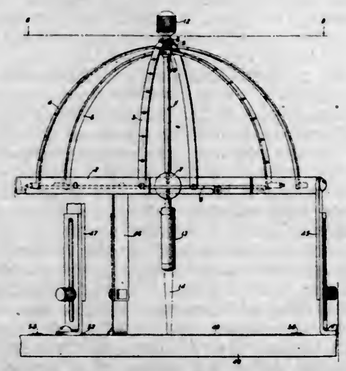
5. A submarine projector or hydrophone consisting of a plurality of bimorph crystals responsive to frequencies within the audible range, means coordinately arranging said crystals in a sheet of vertical and horizontal rows, means whereby the crystals in each vertical row are connected in parallel and comprise a unit, means whereby the various units are connected to a transmission line and phase shifting networks interposed in said line electrically between each of said units to produce a prismatic effect.

2,405,227

GEOMETRICAL INSTRUMENT

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 20, 1943, Serial No. 479,886
5 Claims. (Cl. 33—1)



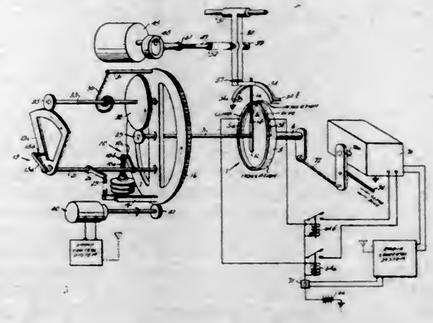
1. A geometrical instrument comprising a plurality of semicircular bails pivoted at their extremities and moving in concentric hemispherical surfaces, said bails being pivoted on intersecting angularly related lines, a spoke functioning as a pointer, a carriage movable along each bail for interconnecting said spoke and said bails whereby the angular adjustment of the said several bails will move said spoke to a position in a line from the center of said hemispherical surfaces to the common intersection of said bails, a plotting surface parallel to the plane of said pivots and a light beam carried by said spoke for defining a point on said plotting surface corresponding to the said angular adjustment of said bails.

2,405,228

AUTOMATIC ALTITUDE CONTROL DEVICE

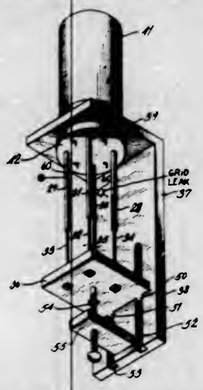
Robert L. Mayrath, Dodge City, Kans.

Application December 26, 1944, Serial No. 569,869
14 Claims. (Cl. 172—282)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



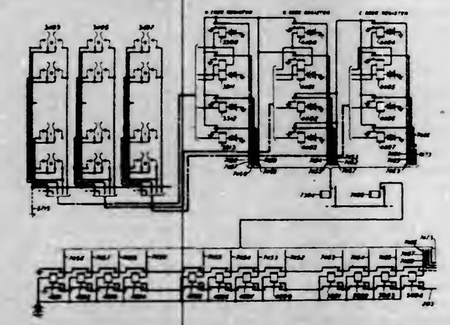
8. An automatic altitude control device, comprising a contact arm and a contact plate, said arm being engageable with said plate, said plate having a nonoperative point intermediate a pair of operative points, said arm being adapted normally for engagement with said nonoperative point at an existing flight level, means including a barometric pressure responsive element for displacing said arm relative said plate to effect engagement of said arm with one of said operative points dependent on a gain or loss of altitude of an associated aircraft, means operative in response to engagement of said arm with said operative point to actuate controls of said aircraft for effecting a compensating altitude change, means operative in response to actuation of said last-named means to effect displacement of said plate to restore said normal engagement, means connecting said arm and said barometric pressure responsive element comprising a bidirectional lost motion linkage means, and means for effecting reversible displacement of said arm for engagement with one or the other of said operative points independently of altitude changes, for predetermining a flight level higher or lower than the existing flight level, means for causing a degree of lost motion in said bidirectional lost motion linkage means, alternatively, depending on the direction of independent displacement of said arm subsequent to displacement thereof in either direction to a limited extent, whereby said barometric pressure responsive element is mechanically unaffected by said independent displacement of said arm, said altitude response element being operative to take up said lost motion proportionally as said aircraft approaches said predetermined level, the degree of lost motion being proportional to the altitude difference between the predetermined flight level and the existing flight level.

2,405,229
ELECTRICAL OSCILLATORY SYSTEM AND APPARATUS
William P. Mueller and Nathaniel L. Kiser, Emporium, Pa., assignors to Hygrade Sylvania Corporation, Emporium, Pa., a corporation of Massachusetts
Application October 30, 1941, Serial No. 417,068
5 Claims. (Cl. 250—36)



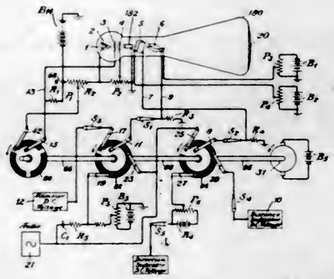
1. In a high frequency system, a triode of the type having a header with a series of lead-ins arranged symmetrically around the center thereof, and symmetrically with respect to the triode electrodes, said lead-ins being in pairs for each electrode, one pair being connected to symmetrical points of the anode, and another pair being connected to symmetrical points of the grid, said lead-ins connected to said grid and anode forming part of a four-conductor transmission line, the other part of which is in telescopic relation with respect to the lead-ins and in substantial alignment therewith and geometrically extensible for tuning of the line, the ends of said other part being connected to a common rigid spacer member, and means to move said spacer member and thereby to tune the line.

2,405,230
TELEPHONE SYSTEM
Oscar Myers, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 17, 1945, Serial No. 578,441
11 Claims. (Cl. 179—27)



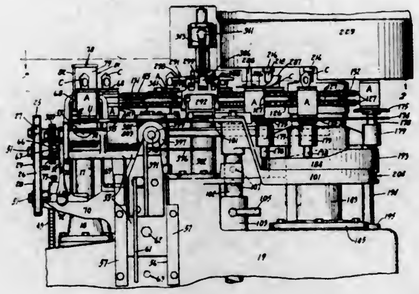
1. In a telephone system, manually operable keys, a selection control device having a plurality of sets of relays, one or more relays being operated in each relay set by successive operations of said keys for controlling a particular selection, an error detecting circuit mechanism, means in each relay set for operating said error detecting circuit mechanism by the operation of one or more different relays in a relay set after the relays in the relay sets have been operated, and means in said error detecting circuit mechanism for releasing said selection control device.

2,405,231
AIRCRAFT BLIND LANDING SYSTEM
Russell C. Newhouse, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 437,013
12 Claims. (Cl. 250—11)



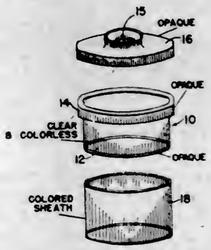
1. A radio navigational system to facilitate the blind landing of aircraft which comprises, means for obtaining a first signal voltage which varies directly with the clearance or altitude of the craft above the surface of the earth beneath it, means for obtaining a second signal voltage which varies directly with the distance of the craft from a fixed point on the earth, means for obtaining a third signal voltage which varies directly with deviation from a known fixed course, a cathode ray indicator including horizontal and vertical deflecting plates, a control anode and a retentive luminescent target or screen, first, second and third ray positioning adjustable potential sources, an anode control potential source, a source of sweep circuit voltage, and circuit and commutating means for successively presenting to the cathode ray indicator three different combinations of a signal voltage, a ray positioning voltage, a sweep voltage and an anode control voltage, one said voltage combination comprising the presentation to the deflecting plates of positioning voltages to position the ray at a point on the target representing zero distance and zero clearance or altitude on the target of the tube, the presentation to the horizontal deflecting plates of a sweep voltage to sweep the ray horizontally across the target, the presentation to the vertical deflecting plates of the first said signal voltage and the presentation to the control anode of a voltage permitting the ray to reach the target whereby a horizontal line is traced on the target of said cathode ray indicator at a vertical distance above the point or line of zero altitude which is determined by the altitude of the craft, a second said voltage combination comprising the presentation to the deflecting plates of positioning voltages to position the ray at a point on the target representing zero distance and zero clearance or altitude, the presentation to the vertical deflecting plates of a sweep voltage to sweep the ray vertically across the target, the presentation to the horizontal deflecting plates of the second said signal voltage and the presentation to the control anode of a voltage permitting the ray to reach the target whereby a vertical line is traced on the target of said cathode ray indicator at a horizontal distance from the point of zero distance which is determined by the distance of the craft from the said fixed point on the earth and a third said voltage combination comprising the presentation to the deflecting plates of positioning voltages to position the ray at an index mark representing the on course heading of the craft, the presentation to the vertical deflecting plates of a sweep voltage to sweep the ray vertically across a portion of the target determined by the aforesaid just-mentioned positioning voltages, the presentation to the horizontal deflecting plates of the third said signal voltage and the presentation to the control anode of a voltage permitting the ray to reach the target whereby a vertical line is traced on the target of said cathode ray indicator at a horizontal distance from the index mark which is determined by the heading of the craft with respect to the on course heading, said commutating means effecting the said successive presentations of the said three described voltage combinations with sufficient rapidity to establish on the target of the cathode ray indicator simultaneously the indications as described of clearance or altitude, distance and course heading whereby the aircraft navigator may determine at a glance the clearance or altitude, the distance and the course heading of the craft.

2,405,232
LIQUID FILLING MACHINE
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 7, 1940, Serial No. 355,845
3 Claims. (Cl. 226—95)



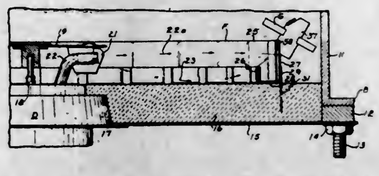
1. A machine for filling liquids into containers of varying size comprising, liquid filling means, a horizontal table disposed below said filling means for receiving empty containers to be filled, a rotatable disc supported by said table for receiving containers therefrom, lifter elements supported by said table and bodily rotatable with said disc, said lifter elements having means for elevating the same relative to the disc, cooperating endless conveyors disposed in vertically spaced substantially horizontal planes above said table for advancing said containers in spaced relation on said table toward said disc and filling means, one of said conveyors being fixed against vertical movement and another of said conveyors being supported by said table, means for driving said conveyors and for rotating said disc, and common means for vertically adjusting said table with its supported disc and conveyor relative to the filling means to compensate for containers of varying size to be filled.

2,405,233
PHOTOGRAPHIC DEVELOPING TANK
Robert H. Peckham, United States Navy
Application January 9, 1945, Serial No. 572,042
2 Claims. (Cl. 95—96)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A photographic film developing tank for strip type film wherein the film may be observed throughout its entire development comprising a base portion, a single cylindrical wall rising from the edges of the base portion, and a removable closure on the top of the chamber so formed, said removable closure being supported by the upper edge of the cylindrical wall, the wall portion between the top and the base of the chamber being made of a material which will transmit substantially all light in the visible portion of the spectrum, and a separate light inhibiting filter of a generally cylindrical shape and having an inside diameter slightly greater than the outside diameter of the tank which filter when applied over the wall of the chamber inhibits the passage therethrough of radiant energy in the portion of the spectrum to which the film being processed is most sensitive.

2,405,234
LIQUID FUEL BURNING APPARATUS
Milton A. Powers and Noel H. Sutterfield, Detroit, Mich., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application November 27, 1942, Serial No. 467,136
15 Claims. (Cl. 158—4)



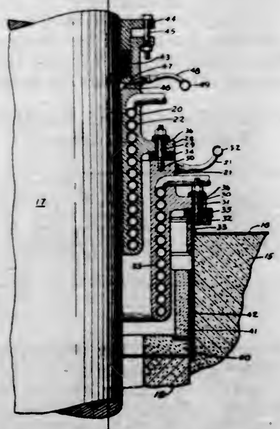
1. In a liquid fuel burning apparatus, a combustion chamber closed at its bottom by a hearth and having a wall extending around the periphery of the hearth; a flame ring structure mounted on said hearth with all portions thereof substantially uniformly spaced from said wall, said structure being made up of a plurality of structurally independent, straight segments angularly adjustable relative to each other in the plane of the ring and having their neighboring ends disposed in overlapping contacting relationship in all relative positions of adjacent segments to provide substantially oil-tight flexible joints, said joints affording sufficient relative angular displacement of adjacent segments to enable the flame ring structure to accurately follow the contour of the wall of said combustion chamber irrespective of whether the latter is of curved or straight contour.

2,405,235
UNDERLAY FOR FLOOR COVERINGS
Boardman M. Randall, Portsmouth, N. H., assignor to TekWood, Inc., Lakeport, N. H., a corporation of New Hampshire
Application December 5, 1942, Serial No. 468,009
7 Claims. (Cl. 154—45.9)



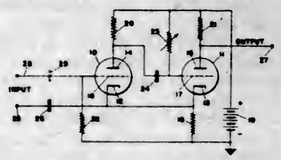
1. An underlay for resilient floor coverings comprising a thin wood core composed of three plies of thin wood veneer combined with a water insoluble glue and with crossed grains forming a composite board balanced to resist warping in any direction and rigid to resist deformation due to normal pressures thereupon and resilient to spring back upon removal of abnormal pressures thereupon, a lining felt bonded to a face of said core by a wtaer impermeable adhesive and said felt being permeated with a water insoluble substance sufficiently plastic to permit displacement of the fibres of the felt parallel to the face thereof, and a water impermeable paper sheet affixed to the opposite face of said core.

2,405,236
ELECTRODE SEALING MEANS
Donald A. Rhoades, Palo Alto, and George B. Scheer, Berkeley, Calif., assignors, by mesne assignments, to The Permanente Metals Corporation, a corporation of Delaware
Application July 24, 1944, Serial No. 546,350
17 Claims. (Cl. 13—17)



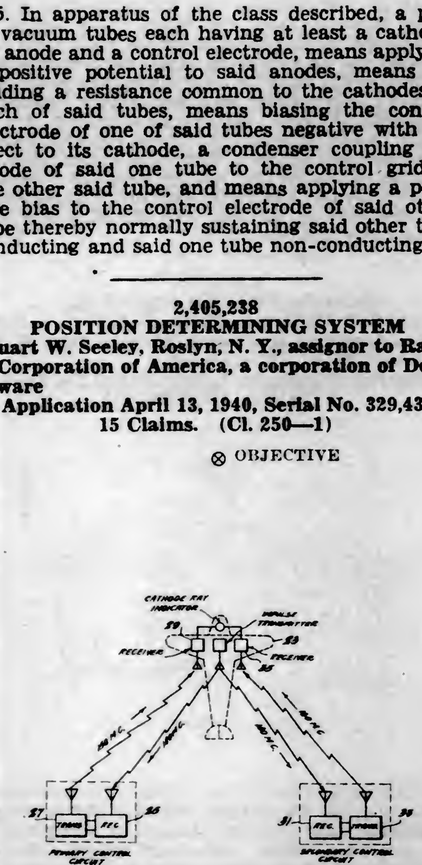
1. In an electric furnace of a sealed type where the inside and outside pressures vary, a passage in the wall of said furnace adapted to receive an electrode, an electrode extending therethrough, sealing means between said electrode and said furnace walls, said sealing means comprising a gland assembly having packing means and cooling means, said cooling means comprising a pair of concentrically arranged units encircling said electrode, one of said units being located immediately adjacent the electrode and the other being spaced therefrom, said units being insulated from each other and said gland assembly being insulated from the supporting means therefor.

2,405,237
ELECTRONIC TRIGGER CIRCUIT WITH TIME-DELAY
Arthur J. Ruhlig, Washington, D. C.
Application October 4, 1941, Serial No. 413,694
5 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



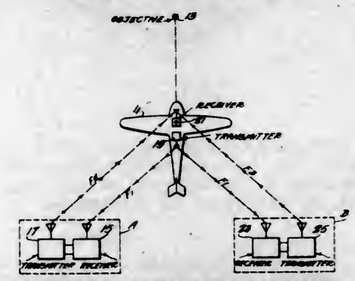
5. In apparatus of the class described, a pair of vacuum tubes each having at least a cathode, an anode and a control electrode, means applying a positive potential to said anodes, means including a resistance common to the cathodes of each of said tubes, means biasing the control electrode of one of said tubes negative with respect to its cathode, a condenser coupling the anode of said one tube to the control grid of the other said tube, and means applying a positive bias to the control electrode of said other tube thereby normally sustaining said other tube conducting and said one tube non-conducting.

2,405,238
POSITION DETERMINING SYSTEM
Stuart W. Seeley, Roslyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 13, 1940, Serial No. 329,434
15 Claims. (Cl. 250—1)



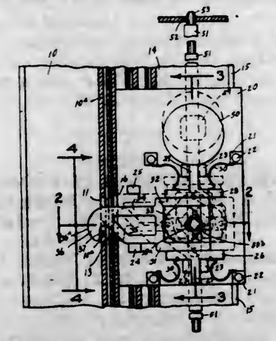
7. In the navigation of a movable object to a predetermined objective which is a known distance from two control stations, the method which includes radiating a succession of discrete pulses of radio frequency energy from said object, receiving and reradiating said pulses at said control stations, receiving said reradiated pulses at said object, establishing electrically in accordance with a time function an objective index corresponding to the calculated time for a pulse to travel from said objective to one of said control stations, and utilizing said received pulses to produce indications of the instantaneous time distance of said object from said control stations, whereby the distance of said object from its objective may be determined.

2,405,239
POSITION DETERMINING SYSTEM
Stuart W. Seeley, Roslyn Heights, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application Februaray 28, 1941, Serial No. 381,020
15 Claims. (Cl. 250—1)



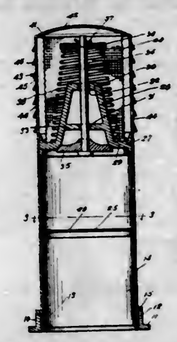
1. The method of indicating the distance between a transmitter and receiver at a first location and a relay at a second location which includes the steps of drawing cyclically repetitive time measuring scanning lines, producing a reference index mark on said line corresponding to the beginning of each of said scanning cycles, radiating from the first location pulses of radio frequency energy at spaced intervals synchronized with said scanning cycle, reradiating said pulses from the other location, receiving said reradiated pulses, producing as a function of said received reradiated pulses a second index mark on said scanning line, and adjusting the time of transmission of said pulses so that the position of said second index mark coincides with that of said reference index at said distance.

2,405,240
LOCKING LATCH STRUCTURE
William A. Shearer, Richard D. Shepherd, and Ernest R. Watkins, New Castle, Ind., assignors to New Castle Products, a copartnership composed of Henry D. Oberdorfer and Julia S. Oberdorfer, New Castle, Pa.
Application June 19, 1944, Serial No. 541,077
4 Claims. (Cl. 70—100)



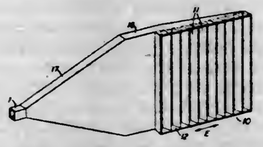
1. A lock structure including in combination an eccentric, a crosshead embracing same and operable thereby, a locking bolt projecting from the head, confronting bearing members between which the crosshead is interposed, yielding means associated with said members and permitting bodily movement of the bolt, crosshead and bearing members, and manually operable means for turning the eccentric for effecting bolt movement.

2,405,241
SILENCER FOR DRAINS
Henry J. Smith, Detroit, Mich.
Application September 20, 1944, Serial No. 554,981
1 Claim. (Cl. 182—27)



In a silencer for drains, in combination, a sleeve adapted to be secured in an aperture in a drain pipe, an apertured, frusto-conical member forming a valve seat positioned in said sleeve, a valve engageable with said seat, a valve stem extending upwardly through the apertures in said member, spring means positioned exteriorly of said frusto-conical member and engaging the upper extremity of said valve stem, the opposite end of said spring means abutting said frusto-conical member, biasing said valve toward closed position and adapted to yield on a decrease of pressure in said drain pipe to permit the ingress of air thereto, a screen surrounding said valve and said frusto-conical member, an apertured cover member surrounding said screen, and a guard plate in said sleeve below said valve and valve seat.

2,405,242
MICROWAVE RADIO TRANSMISSION
George C. Southworth, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1941, Serial No. 420,747
34 Claims. (Cl. 250—11)

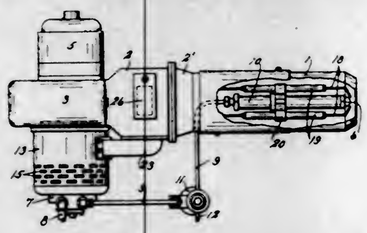


1. A hollow pipe guide for ultra-high frequency electromagnetic waves a section of which constituting an antenna has a plurality of apertures longitudinally spaced therein, the total effective area of said apertures being substantially equal to the cross-sectional area of said guide at one end thereof, whereby the impedance of said antenna section is matched to that of the guide.

2,405,243
OIL BURNER
Leolyn F. Speare, Westfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application June 19, 1944, Serial No. 540,957
2 Claims. (Cl. 158—28)

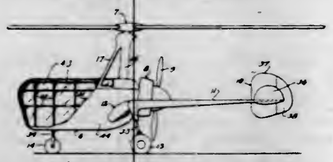
1. In an oil burner, a casing providing a fan housing having intake and discharge openings

and a conduit communicating at one end with said discharge opening and having an outlet at its other end, a fan in said housing between said openings, an oil-atomizing nozzle in said conduit, an oil pump connected to supply oil to said nozzle, a motor for driving the fan and pump, said conduit having a second and venting outlet located between the fan and nozzle, a valve for the second outlet for opening and closing the same, and



a valve for one of said openings adjustable to vary inflow of air to said conduit and adjusted to admit all the air required for combustion when the fan is revolving at a predetermined speed less than its normal speed and the first-named valve is closed, said first-named valve closing and opening automatically accordingly as the fan revolves below or above said predetermined speed respectively.

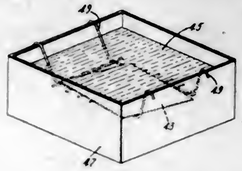
2,405,244
ROTARY WING AIRCRAFT
Paul H. Stanley, Huntingdon Valley, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application May 19, 1942, Serial No. 443,563
6 Claims. (Cl. 244—17)



1. In an aircraft having a body and a sustaining rotor thereabove, an engine mounted at the rear end of said body, a pylon mounting the rotor above the rear end of the body and consisting of three pylon legs, one of which extends downwardly from adjacent the rotor center to a point of connection with the body adjacent the mounting of the engine, and the other two of which extend downwardly and forwardly in divergent relation, and a largely transparently-walled enclosed cabin extending centrally forwardly from between said forward pylon legs.

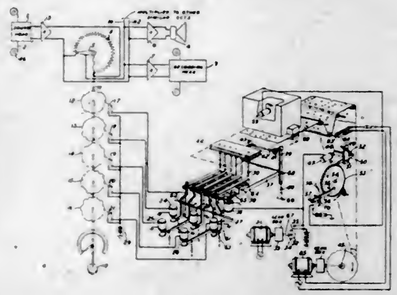
2,405,245
EXAMINING THE INTERIORS OF GUN BARRELS
Alexis E. Ushakoff, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 5, 1942, Serial No. 425,671
6 Claims. (Cl. 18—5)

1. The method of taking an impression of the rifled interior of a gun barrel to determine the condition of its surfaces, said method comprising, providing a thermoplastic material, heating the material to soften it, introducing into the cold gun barrel a heated, softened hollow cylinder of said material, and exerting fluid pressure upon the interior of the hollow cylinder to cause its outer surface to take an imprint of the interior



of the gun barrel including the rifling grooves, whereupon the thermoplastic material sets without adhering to the interior of the gun barrel and may be withdrawn for inspection.

2,405,246
SOUND RECORDING SYSTEM
Edward F. Watson, Larchmont, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1943, Serial No. 487,890
8 Claims. (Cl. 179—100.3)

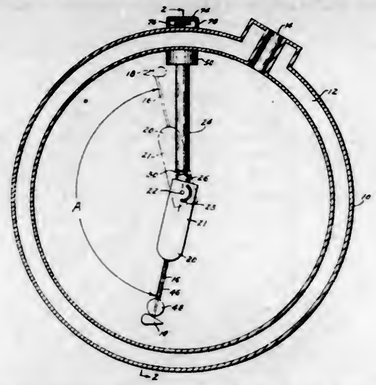


1. In a sound recording system, means for varying sound volume, and means controlled in accordance with successive sound varying adjustments of said first named means for providing a visible permutation code record of said sound volume so varied, said record comprising visible permutation code combinations, at successive equal intervals, each individual combination corresponding to the full amplitude of said volume so varied, to facilitate the reading interpretation and modification of said record.

2,405,247
GAUGE FOR SPHERICAL CONTAINERS
John A. Weaver, Santa Monica, Calif.
Application November 14, 1945, Serial No. 628,645
7 Claims. (Cl. 73—318)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A liquid level gauge for a spherical container which comprises a polarized needle pivotally supported on the outside of said container, a magnet within said container having its poles revolvable about the axis of said needle, a rotatable pendulum hinge support carried within said container with the axis of rotation passing through the center of said container, a pendulum hinged on said pendulum hinge support, the hinge axis passing through the center of said container and being normal to the axis of rotation of said pendulum hinge support, a float, a float arm for said float, hingedly carried on said pendulum with

hinge axis normal to the gravity axis, and linkage connecting said float arm to said magnet whereby



swinging movement of said float arm causes rotation of said magnet.

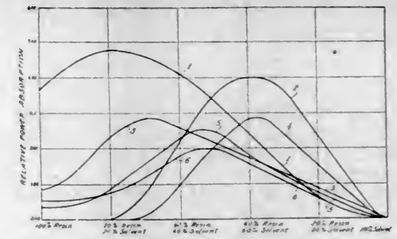
2,405,248
STORM WINDOW
Arnold N. Weller, Milwaukee, Wis.
Application July 14, 1944, Serial No. 544,871
2 Claims. (Cl. 98—96)



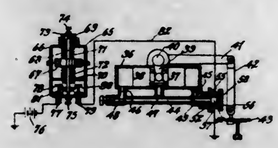
1. A storm window comprising a frame, glasses mounted in said frame, the lower portion of the frame being free of the glasses for providing an opening, a ventilator for closing the opening, said ventilator including a substantially U-shaped frame having its bight portion hingedly secured to the lower portion of the first-named frame, a glass mounted in the second-named frame, means for releasably securing the ventilator in closed position in the first-named frame, said second-named frame having diagonal guide sockets in its side portions, and pins in the first-named frame engaged in said sockets for supporting the ventilator in open position.

2,405,249
METHOD OF APPLYING COATING FILMS
Mitchell Wilson, New York, N. Y., assignor to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York
Application November 13, 1943, Serial No. 510,154
6 Claims. (Cl. 117—93)

1. The method of drying a film of a coating composition comprising a solution in a solvent of two polar resins having dielectric constants greater than 3, which comprises establishing an electrostatic field by connecting a pair of spaced electrodes to a source of single-frequency alternating current and vaporizing the solvent from the film by subjecting it to said electrostatic field, one of said resins having its maximum dielectric loss at the selected frequency when the coating composition has a low viscosity and contains the major portion of the solvent and the other of said resins having its maximum dielectric loss at the selected frequency when said solution has a high viscosity approaching dryness whereby a substantially continuous heating effect is maintained during vaporization of the solvent.

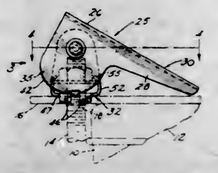


2,405,250
VEHICLE SUSPENSION CONTROL MECHANISM
Austin M. Wolf, Plainfield, N. J.
Original application June 19, 1939, Serial No. 279,887. Divided and this application May 16, 1942, Serial No. 443,235
10 Claims. (Cl. 188—88)



1. In combination with a fluid shock absorber for road vehicles having a resistance control valve, electrical means for actuating said valve to increase the resistance of the shock absorber to relative displacement between the vehicle body and wheels, an inertia device responsive to such displacement for energizing said electrical means, and means variably regulating the degree of energization of said electrical means by said inertia device.

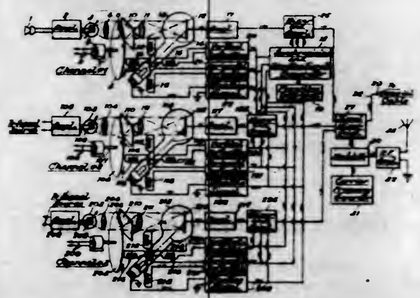
2,405,251
CLAMPING DEVICE
Leavitt B. Glaze, Los Angeles, Calif., assignor to Paul Henry, Los Angeles, Calif.
Application April 10, 1944, Serial No. 530,274
12 Claims. (Cl. 292—256)



1. In a clamping device for attachment to a rod, the combination of: a rod-receiving structure adjustable in position along said rod; a pressure member; means apart from said rod for attaching said pressure member to said rod-receiv-

ing structure for limited movement toward and away from said rod-receiving structure; an arm; means for pivoting said arm to swing relative to said rod-receiving structure; and cam means operatively connected to said arm and engaging said pressure member when said arm is pivoted relative to said rod-receiving structure to advance said pressure member in a direction away from said pivot means.

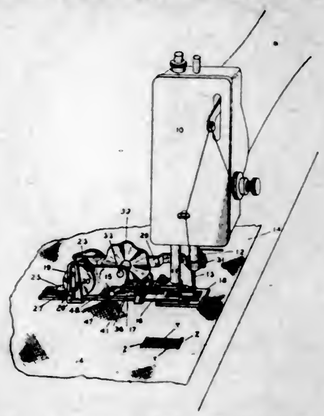
2,405,252
SECRET COMMUNICATION SYSTEM
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 22, 1942, Serial No. 451,855
27 Claims. (Cl. 179—1.5)



10. A multiplex communication system comprising a plurality of separate sources of signal wave energy each having frequencies in a range between a predetermined minimum value and a predetermined maximum value, a plurality of electronic means to develop signal energy, the number of said electronic means corresponding to the number of signal energy sources, a selector means for independently energizing each electronic means under the control of a separate one only of the developed signal energies of the separate sources by selecting from each source of signal energy at predetermined times impulsive sections which are different for each source of signal energy and which each represent the instantaneous signal energy amplitude at the selected times, means for causing the impulsive energy selection periods to occur at a group frequency of the order of the highest frequency modulation of the separate sources, means to shift, according to a predetermined schedule, the times of selection of impulsive energy from each signal source in each group period, means to derive output energy from each electronic means, means for mixing the output energies of all of said electronic means, and means for supplying the combined energy to a communication channel.

2,405,253
BUTTONHOLE ATTACHMENT FOR SEWING MACHINES
James Hickey, Portland, Oreg.
Application November 13, 1944, Serial No. 563,221
6 Claims. (Cl. 112—77)

1. In a buttonhole attachment for a sewing machine, a feed blade mounted for longitudinal and lateral movement, means for moving said feed blade longitudinally in alternate directions, a stitch control lever connected with said feed blade, cam means for producing lateral oscillation of said stitch lever and therewith of said feed blade, a restriction bracket associated with one end of said lever, an engaging element on said restriction bracket for holding said end of said lever against oscillation when said bracket is in full engaging position, whereby to increase the amount of oscillation of the opposite end of said lever and



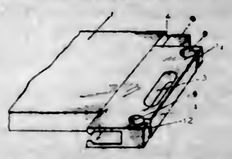
therewith the amount of oscillation of said blade, and means for moving said bracket into full engaging position whenever said blade reaches the end of its longitudinal movement in either direction.

2,405,254
MOLD CORE
Robert K. Hopkins, New York, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application March 2, 1943, Serial No. 477,738
4 Claims. (Cl. 22—170)



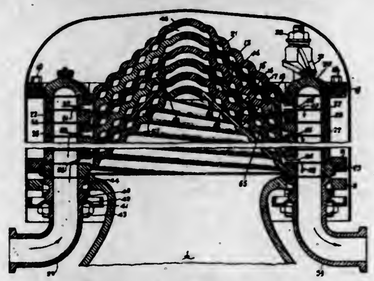
1. A mold core comprising a plurality of sections having outer circular surfaces of the same radius, wedges spacing said sections and automatically slidable radially inwardly upon the application of shrinkage pressure of the cast material on the outer surfaces of said sections, a block in the interior of said core, and spring means bearing on said block and urging said wedges radially outwardly.

2,405,255
VENETIAN BLIND
Karl R. Horton, Portland, Oreg.
Application March 5, 1945, Serial No. 580,948
5 Claims. (Cl. 160—173)



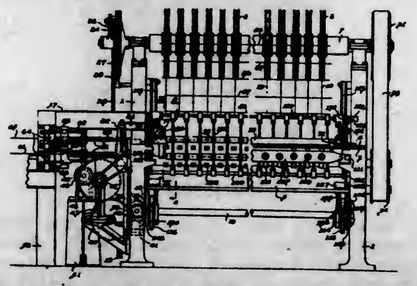
2. A slat mounting for Venetian blind slats, comprising a clip for a slat having a preformed end, effective to grippingly engage said end of a slat and provided with a cross slot for a lifting cord, corresponding surfaces of the slat and clip mounted thereon being substantially flush with each other.

2,405,256
HEAT EXCHANGER
Delbert E. Jack and Dale Augsburger, Dayton, Ohio, assignors to The Duriron Company, Inc., Dayton, Ohio, a corporation of New York
Application February 10, 1945, Serial No. 577,190
6 Claims. (Cl. 257—245)



1. Heat exchange apparatus comprising a plurality of generally conical sections arranged in nested relation, each of said sections having spiral corrugations, the corrugations being constructed and arranged so that the humps of one section are in contact with the humps of sections on either side thereof, and the humps of said contacting sections forming a spiral passageway for fluids between each pair of sections, each passageway winding spirally inward from the periphery of a pair of said sections toward the centers of said sections and outwardly toward the peripheries of said pair of sections, a fluid connection from a source of fluid of one temperature to one set of passageways, and a fluid connection from another source of fluid of another temperature to another set of passageways, the passageways of said one set alternating with the passageways of said other set, whereby to provide a heat exchange relationship between the passageways of one set and the passageways of the other set.

2,405,257
FENCE MACHINE
Ernest Kehrer, Belle Vernon, and Clifford E. Faust, Monessen, Pa., assignors to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 11, 1944, Serial No. 549,108
9 Claims. (Cl. 140—112)

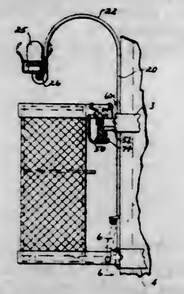


1. A wire fabric making machine, comprising means for intermittently and simultaneously feeding a plurality of parallel vertical strand wires lengthwise, means for intermittently and simultaneously feeding a plurality of vertically spaced horizontal wires across the front of the strand wires in spaced relation thereto, means for cutting said horizontal wires at one side of the strand wires while the horizontal wires are stationary to thereby form a set of stay wires in front of the strand wires, means for detachably gripping the set of stay wires and moving them rearwardly into contact with the strand wires, and horizontally movable welding electrodes for engaging the contacting strand and stay wires at their intersections when the strand wires are stationary to weld them together, said horizontal wire feeding means resuming the feeding of the horizontal wires before said gripping means leave said stay wires, and means for moving said gripping means forward away from the contacting strand and stay wires and vertically in front of the newly fed horizontal wires preparatory to engaging a new set of stay wires.

2,405,258
PROCESS FOR DESULPHURIZING HYDROCARBONS
George R. Lake, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application December 8, 1942, Serial No. 468,220
17 Claims. (Cl. 202—42)

1. A process for fractionating a mixture of sulphur compounds of the type contained in a coal tar fraction boiling in the benzene boiling range and comprising thiophane and thiophene which comprises distilling said mixture of sulphur compounds in the presence of a sufficient amount of acetone adapted to form an azeotrope with thiophane thereby vaporizing that portion of said sulphur compounds comprising thiophane together with acetone and leaving the remaining portion of said sulphur compounds comprising thiophene in the residue substantially completely separated from thiophane.

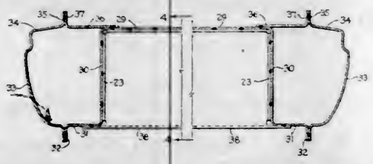
2,405,259
WORK CARRIAGE
Clyde K. Lamb, Cleveland, Ohio, assignor, by direct and mesne assignments, to Airways Lighting Corporation, Cleveland, Ohio, a corporation of Ohio
Application February 22, 1945, Serial No. 579,291
8 Claims. (Cl. 304—13)



1. A movable carriage adapted for movement about a work structure with which it is associated, said work structure having a track mounted thereon, and said carriage having wheel means adapted to ride upon said track and wheel means spaced therefrom and disposed at right angles thereto, and bearing against said work struc-

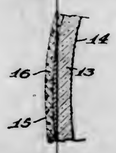
ture whereby the said carriage is retained upon said track, said carriage including a platform, a back and side rail member, and locking means whereby the carriage may be locked to said work structure.

2,405,260
COMBINED BODY AND CHASSIS STRUCTURE
Joseph Ledwinka, Philadelphia, and John W. Kelly, Elkins Park, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 1, 1939, Serial No. 265,456 which is a division of application Serial No. 75,375, April 20, 1936. Divided and this application January 24, 1944, Serial No. 519,422
4 Claims. (Cl. 296—28)



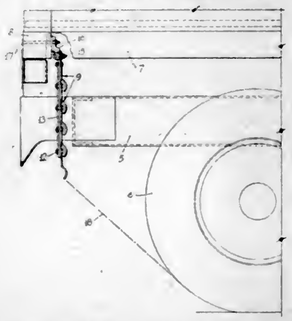
1. In a vehicle body, a sheet metal panel forming the body floor, a sill member and an outer upstanding wall panel; said sill member having an upstanding arm formed as an integral one-piece part of the floor panel and arranged in spaced relation from the main body of said wall panel; a connection between the lower margins of said wall panel and said sill member; and a separately made bridging member connected along its longitudinal margins to the said one-piece part forming the floor and the upstanding arm in the region where the upper margin of said upstanding arm and the floor forming panel meet and to said wall panel at some distance above the lower margin of the latter; said bridging member closing the open mouth between said wall panel and said floor panel with its sill member and forming with said wall panel, said sill member and said connection the walls of a closed box sectional combined body and chassis sill structure.

2,405,261
ELECTRIC LIGHT BULB
Ormonde S. Levi, Toledo, Ohio, and Richard A. Hoyt, Auburn, Maine, assignors, by mesne assignments, to Verd-A-Ray Processing Company, Toledo, Ohio, a corporation of Ohio
Application December 2, 1944, Serial No. 567,796
8 Claims. (Cl. 176—16)



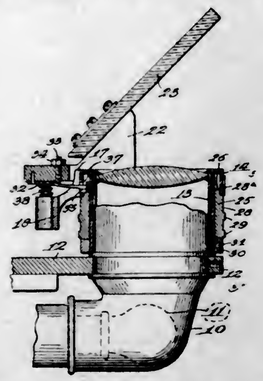
4. An incandescent electric lamp having a filament with the lighting characteristics of a tungsten filament, an inside frosted glass bulb surrounding the filament and enamel on the outside of the bulb, said enamel consisting of a clear base and reflective pigment in an amount to cut off at least 15% and not to exceed 45% of the total light on direct transmission, and sufficiently reflective to result in the ultimate emission of the major part of the light that is cut off on single transmission, and the pigment being selectively reflective to increase the proportion of reflected light having a wave length of from 5000 to 5500 angstrom units.

2,405,262
SPLASH GUARD FOR VEHICLES, ESPECIALLY TRUCKS
Alexander R. Lindsay, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 3, 1943, Serial No. 512,722
3 Claims. (Cl. 280—153)



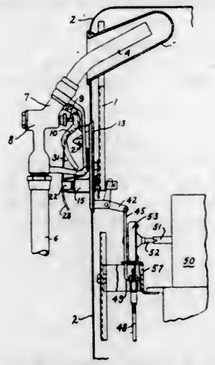
2. Splash guard for vehicles comprising a plurality of substantially flat slabs, said slabs having one of their margins beaded, flexible means extending across said slabs on one side thereof, connecting means between the unbeaded margins of the slabs and said flexible means, the beaded margins of the slabs overlapping and covering said connecting means, the unit so formed being adapted for suspension from a vehicle structure.

2,405,263
BOMB SIGHT
Robert M. Lynn, Pasadena, Calif., assignor of twenty-five per cent to Clarence J. Harasta, twenty-five per cent to Julia M. Lynn, and twenty-five per cent to Mildred A. Harasta
Application February 2, 1944, Serial No. 520,722
3 Claims. (Cl. 88—2.4)



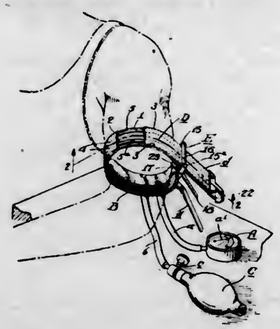
1. In a bomb sight wherein a vertical housing contains a light source, reticle and collimator for producing a beam of light directed outwardly from said housing, and wherein a transparent reflector is angularly positioned over said beam of light, the combination of a device for tilting said reflector, comprising: a sleeve journaled on said housing, an axially directed cam on said sleeve; a bracket supporting said reflector on said housing, said bracket including a follower and means for urging said follower against said cam, whereby the angular position of said reflector varies in accordance with the circumferential displacement of said sleeve on said housing.

2,405,264
CONTROL MECHANISM FOR DISPENSING APPARATUS
Harvey E. Marvel, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application July 13, 1940, Serial No. 345,353
19 Claims. (Cl. 222—74)



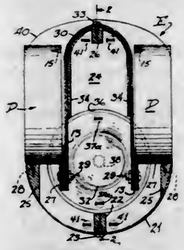
1. In a liquid dispensing apparatus comprising a nozzle, a casing, a flow supplying means and a control device for said flow supplying means in said casing, a nozzle support comprising a plunger mounted for reciprocating movement to different positions with respect to said casing, connections for transmitting movement from said plunger to said control device and means to prevent supporting said nozzle on said plunger except in a predetermined position thereof.

2,405,265
BLOOD PRESSURE TESTING APPARATUS
Charles H. McAlpine, Hamburg, Pa.
Application October 20, 1942, Serial No. 462,754
10 Claims. (Cl. 24—170)



1. A sustaining device for a sphygmomanometer comprising an inherently resilient arm band, a buckle secured to one end and adapted to receive the opposite free end of said band, means forming part of said buckle for gripping said band along said free end thereof, and means for releasing said gripping means to permit said free end to move through said buckle under an inherent tendency of the band to assume a rectilinear state.

2,405,266
ILLUMINATED SIGN
Theodore F. McFall, El Cerrito, Calif.
Application February 15, 1944, Serial No. 522,494
4 Claims. (Cl. 40—130)



1. In a sign, a pair of supporting members spaced from and paralleling each other, said supporting members having horizontal portions, characters mounted on the horizontal portions, a translucent U-shaped shield carried by the supporting members and bridging the space therebetween, and lighting means for illuminating the shield.

2,405,267
3,6-EPOXYCYCLOHEXENE
Walter Nudenberg, Chicago, Ill., assignor to United States of America as represented by the Secretary of Agriculture
No Drawing. Application October 27, 1944, Serial No. 560,589
1 Claim. (Cl. 260—333)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3,6-epoxycyclohexene.

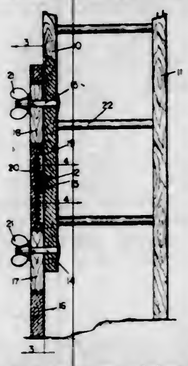
2,405,268
BUSINESS MACHINE
Richard W. Pitman, West Hartford, Conn., assignor to Underwood Corporation, a corporation of Delaware
Application November 21, 1941, Serial No. 419,889
16 Claims. (Cl. 235—60)



1. In a business machine; the combination with a set of computing devices of different denominational orders, indexable successively in the respective denominational orders; of means, controlled

by a record in the machine on which only significant figures of the complement of a true negative amount are sensably recorded, to index said figures for the computing devices of corresponding orders; the record also including a sensable designation signifying that the amount recorded is the complement of the true negative amount; and means controlled by said sensable designation, to effect indexing of an insignificant figure complement for each computing device that is not indexable for a significant figure.

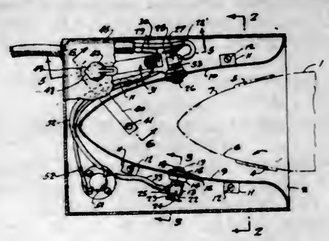
2,405,269
ADJUSTABLE LADDER
Alexander L. Prutsman, Portland, Oreg.
Application March 13, 1945, Serial No. 582,502
1 Claim. (Cl. 228—63)



An adjustable ladder comprising, a pair of legs connected by rungs, one of said legs extending for a shorter distance below the bottom rung than the other leg, a plate attached to the outside face of said shorter leg, an adjustable attachment mounted on the outside face of said shorter leg, said attachment being of substantially the same cross section as said shorter leg, a recess in the inside face of said attachment adjacent the outside face of said shorter leg, a second plate secured in said recess, said second plate being longer than said first mentioned plate and said first mentioned plate and second plate having cooperating engaging teeth on their opposed faces, the depth of said recess being equal to the combined thicknesses of said plates when said plates have their teeth in engagement, whereby the opposed faces of said attachment and said shorter leg will contact each other above and below said recess when the teeth of said plates are in engagement, a pair of clamping bolts extending outwardly through the longitudinal center line of said shorter leg and located above and below said first mentioned plate, a pair of slots extending along the longitudinal center line of said attachment above and below said recess, said bolts extending through said slots respectively, and clamping nuts on the outer ends of said bolts.

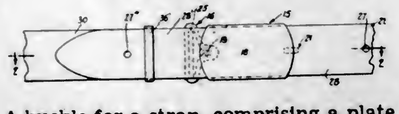
2,405,270
ELECTRIC FLATIRON AND CONTROL THEREFOR
August H. Riess, Lawndale, Calif., assignor of one-third to H. Glen Manley, Hawthorne, Calif.
Application November 29, 1943, Serial No. 512,141
2 Claims. (Cl. 219—25)

1. In a rest for an electric iron, a base for the iron, opposing walls between which the iron is to enter, and supported on the base, a pair of movable contact members, a pair of sleeves respectively supported by the walls, for said contact members, to guide said members for movement transversely of said walls, contact fingers respectively back of the walls and arranged to be con-



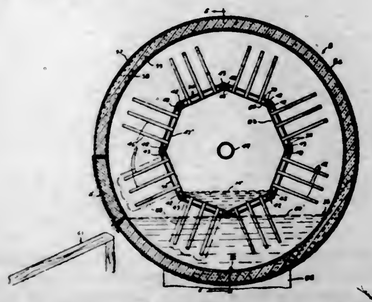
nected to said members when said members move outwardly of the walls, and means forming a protecting wall around said contact fingers, said means including an upper wall having projections overlying said contact members.

2,405,271
FASTENING MEANS
Joseph Siegel, New York, N. Y.
Application February 8, 1944, Serial No. 521,500
2 Claims. (Cl. 24—77)



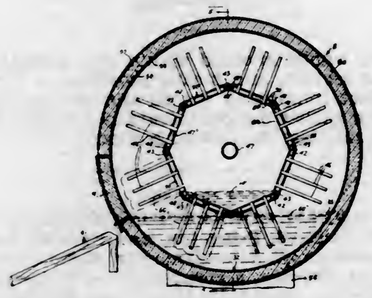
1. A buckle for a strap, comprising a plate and spaced-apart projections at the back of said plate, one of said projections extending from said plate intermediate its lateral sides and adjacent one end of said plate, said one of said projections being angular and having its free end projecting beyond said plate, the other of said projections comprising a stud extending from said plate intermediate its lateral sides and adjacent the other end of said plate, said stud comprising a shank and an enlarged head at its extremity, and a loop member adapted to be connected with an end of the strap and engaging said stud for securing portions of the strap together.

2,405,272
ICE MANUFACTURE
Arthur D. Smith, Canton, Ohio, assignor to Barium Steel Corporation, Canton, Ohio, a corporation of Delaware
Application July 29, 1943, Serial No. 496,564
4 Claims. (Cl. 62—172)



1. The method of making an ice block which includes the steps of intermittently during the freezing operation immersing a group of spaced parallel tubular bodies in a bath of water, internally refrigerating the bodies, to freeze the water to form ice entirely around the exterior of each body progressively outward from the outer surface of each body until the ice formed on the group of bodies merges into one block.

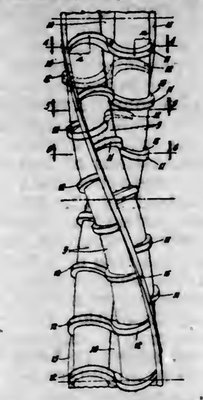
2,405,273
ICE MANUFACTURING APPARATUS
Arthur D. Smith, Canton, Ohio, assignor to Barium Steel Corporation, Canton, Ohio, a corporation of Delaware
Application July 29, 1943, Serial No. 496,565
9 Claims. (Cl. 62—106)



1. In refrigeration apparatus and the like, a hollow body having an exterior and an interior and including a group of spaced tubes, each tube having a closed end, means containing a bath of liquid adjacent to said tube, means for moving the hollow body for intermittently immersing portions of the tubes and their closed ends in said bath of liquid to pick up successive films of liquid entirely surrounding the exterior portions of the tubes, and means operatively associated with the interior of the body for internally refrigerating the tubes and freezing the successive films of liquid to form a frozen solid entirely around each tube progressively outward from the outer surface of each tube until the frozen solid formed on the group of tubes merges into one block.

2,405,274
REINFORCEMENT BAR AND METHOD OF MAKING SAME
Joseph D. Stites, Chicago, Ill., assignor to American Isteg Steel Corporation, New York, N. Y., a corporation of New York
Application July 24, 1943, Serial No. 496,024
8 Claims. (Cl. 72—111)

1. A method of manufacturing a reinforcement bar which comprises the steps of forming a bar having two parallel rod-like sections joined by an integral web and forming thereon a series of parallel transverse ribs extending across said web and around one side of said rod-like sections, and a second series of parallel transverse ribs extending across said web and around the other side of said rod-like sections, said two series of ribs being arranged in staggered relationship, and thereafter twisting and stretching the bar so formed to produce a helical structure, the parallel ribs being spaced closely together so that, in the helical structure produced by the twisting and stretching operation, all planes normal to the axis



of the helices will intersect at least a portion of a transverse rib.

2,405,275
PURIFICATION OF ALUMINUM HYDRATE
Vernon Monroe Stowe, Collinsville, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application February 19, 1944, Serial No. 523,101
3 Claims. (Cl. 23—141)

1. The process of producing alumina of low soda content from particles of aluminum hydrate containing soda comprising the steps of calcining the particles of aluminum hydrate sufficiently to remove only a part of the chemically combined water therefrom, subsequently leaching the resulting particles with a liquid capable of removing sodium values therefrom, thereafter calcining said particles sufficiently that the total water content thereof is lower than the water content of the particles at the end of said first mentioned calcination, and subsequently leaching the resulting particles with a liquid capable of removing sodium values therefrom.

2,405,276
PROCESS FOR THE TREATMENT OF WATER BY SUPPRESSING THE IONS OF ALKALINE EARTH METALS
Ambrose George Taylor, Birmingham, England, assignor to Calgon, Inc., Pittsburgh, Pa.
No Drawing. Application April 16, 1941, Serial No. 388,818. In Great Britain May 6, 1940
26 Claims. (Cl. 210—23)

9. The process of softening water by adding to it potassium Kurrol salt in solid form, and in addition a salt of ammonium, said Kurrol salt being in amount sufficient to soften the water.

12. The process of softening water in which potassium Kurrol salt is added to the water to be treated together with Maddrell salt, the Kurrol and Maddrell salts being added in amount sufficient to soften the water.

15. A water softening composition comprising a water-insoluble potassium metaphosphate in an aqueous solution of sodium nitrate.

17. A mixture of effective amounts of solid water-insoluble sodium and potassium metaphosphates and sodium and potassium carbonates characterized by the fact that when such mixture is added to water a reaction takes place resulting in the dissolving of the sodium and po-

tassium metaphosphates in the water to form a solution which exhibits the property of softening water in a manner typical of sodium phosphate glass of the Graham's salt type, of dissolving calcium and magnesium soaps, and of having a stable calcium repression after boiling for a period of time exceeding several hours.

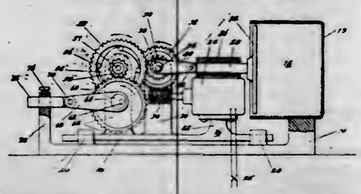
19. A composition comprising effective amounts of water-insoluble sodium metaphosphate and potassium chloride, which mixture when added to water in concentrations of 8 grams of water-insoluble sodium metaphosphate per liter of water is characterized by the fact that a reaction between the potassium chloride and the metaphosphate occurs whereby the metaphosphate is dissolved, the rate of solution being relatively slow at room temperature and relatively rapid at temperatures up to and including 100° C., which solution on dissolution of the metaphosphate has the property of softening hard water against soap when added to hard water in the ratio of about 9 to 10 milliliters per 5 milligrams of calcium ion or magnesium ion.

24. A composition comprising a mixture of water-insoluble sodium metaphosphate and a water-soluble compound selected from the group consisting of potassium and ammonium salts, the water-soluble compound in said mixture being in amount sufficient to cause dissolution of the water-insoluble sodium metaphosphate when said mixture is added to water, and to impart to said phosphate properties characteristic of Graham's salt with respect to calcium and magnesium ions.

2,405,277
TUNING APPARATUS
Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application December 2, 1943, Serial No. 512,646
10 Claims. (Cl. 178—44)

10. A tuning apparatus for high frequency signaling systems, comprising a tuning element, a motor, means powered by said motor for continuously moving said element over a predetermined path, and means powered by said motor for continuously imparting to said element oscillatory movements in the direction of said path, the amplitude of said oscillatory movements being very short by comparison with the length of said path, said means being operative concurrently.

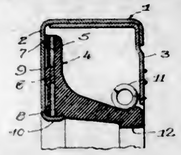
2,405,278
FERROALLOY BRIQUETTE AND MANUFACTURE OF SAME
Calbert L. Vance, Zanesville, Ohio, assignor to Ohio Ferro-Alloys Corporation, Canton, Ohio, a corporation of Ohio
No Drawing. Application December 11, 1943, Serial No. 513,953
7 Claims. (Cl. 75—44)



6. A briquette for iron or steel making additions composed of ferro-alloy fragments and a binder taken from a group consisting of tar and pitch and small strips of paper incorporated in the briquette.

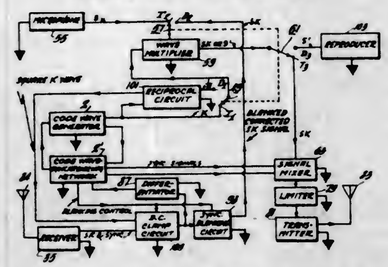
2,405,279
OIL SEAL CONSTRUCTION
John H. Victor, Wilmette, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
Application November 8, 1943, Serial No. 509,363
1 Claim. (Cl. 288—3)

In an oil seal comprising in combination an annular channel-shaped retaining shell, a sealing element of rubber-like material of annular formation having an axially extending sealing section and a radially extending section, a metallic reinforcing ring having its outer section



initially wholly encased within said radially extending section, and means providing a vacuum cup effect comprising spaced annular concentric flat face rubber flanges integrally formed on the face of said last-mentioned section.

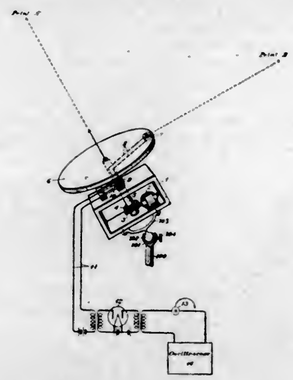
2,405,280
SIGNAL CORRECTION CIRCUIT
Alda V. Bedford, Princeton, and Karl R. Wendt, Hightstown, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 29, 1945, Serial No. 585,526
11 Claims. (Cl. 179—1.5)



1. In a system employing a complex signal having a signal amplitude multiplication factor component and a spurious amplitude component, a circuit for removing said spurious signal component comprising means for deriving said multiplication component signal, a switching device, means responsive to reversals in polarity of said derived multiplication component signal for selectively actuating said switching device, and means responsive to said actuation of said switching device and operable upon said complex signal for removing said spurious component of said complex signal.

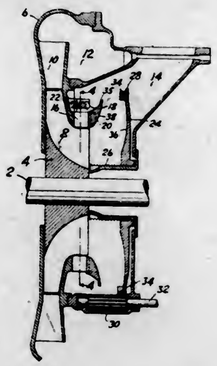
2,405,281
OBJECT LOCATER
Edwin Walter Bemis, East Orange, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application September 22, 1942, Serial No. 459,247
8 Claims. (Cl. 177—352)

1. The method of locating a source of sound which comprises continuously rotating a sound receiver in an orbit and pointing the axis of said orbit in various directions whereby if said axis is pointed at said source of sound the pitch of the sound in said sound receiver will be constant and if said axis is not pointed at said source the



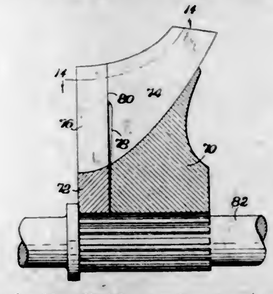
pitch of the sound in said sound receiver will due to the "Doppler effect" be variable.

2,405,282
VARIABLE RATIO COMPRESSOR
Rudolph Birmann, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia, a corporation of the United States of America
Application February 2, 1938, Serial No. 188,231
8 Claims. (Cl. 230—47)



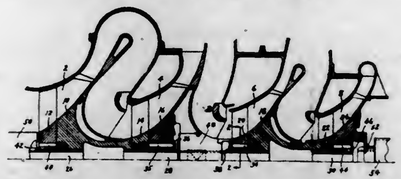
4. A centrifugal compressor having a variable compression ratio comprising a rotor provided with impeller vanes defining gas passages, said vanes having one series of inlet edge portions arranged to receive gas approaching them in an axial direction, and another series of inlet edge portions arranged to receive gas approaching them with a radially inward component of flow, means adjustable to control flow to the first mentioned series of inlet edge portions to provide either substantially axial flow thereto or flow having a variable peripheral component in the direction of rotation of the rotor, means adjustable to control flow to the second series of inlet edge portions to provide varying velocity of flow of gas thereto, and means for controlling both of said adjustable means for their successive operation to provide progressive variation of the peripheral component of the absolute velocity of flow to the passages.

2,405,283
ELASTIC FLUID MECHANISM
Rudolph Birmann, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia, a corporation of the United States of America
Application August 19, 1941, Serial No. 407,408
7 Claims. (Cl. 230—134)



1. An elastic fluid mechanism comprising a rotor having a hub portion and substantially radially extending vanes defining elastic fluid passages having substantial axial extent and shaped to change to a substantial degree the radial component of velocity of elastic fluid flowing therethrough, each of said vanes comprising at least two parts substantially meeting along an outwardly extending line and loosely coupled to each other along said line to provide damping of mechanical vibrations of said vane parts relative to said hub portion.

2,405,284
CENTRIFUGAL COMPRESSOR
Rudolph Birmann, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia, a corporation of the United States of America
Application May 21, 1942, Serial No. 443,957
17 Claims. (Cl. 230—130)

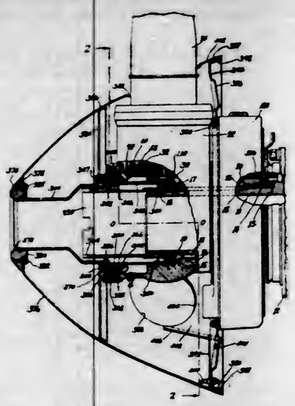


1. A compressor comprising a casing, a bearing within the casing, a shaft member mounted in said bearing, a rotor comprising at least one impeller splined to said shaft member, said rotor and shaft member having substantially different coefficients of thermal expansion, and a plurality of rods, each of the rods being secured to the shaft member at a location on the high pressure side of the impeller, extending to the low pressure side of the impeller, and at the latter side engaging the rotor to limit axial movement of said rotor relative to the shaft member.

2,405,285
CONTROLLABLE PITCH PROPELLER
Werner J. Blanchard, Charles S. J. MacNeil, John F. Haines, and Thomas B. Martin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 9, 1942, Serial No. 450,246
15 Claims. (Cl. 170—159)

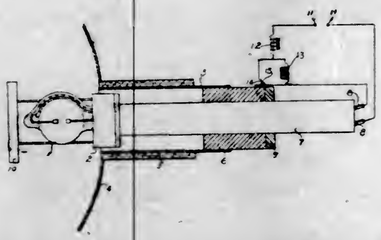
1. In a controllable pitch propeller, the combination comprising, a hub providing a plurality

of sockets for rotatably supporting each a blade, an annular bulkhead, means extending radially from the hub for supporting the bulkhead, a pilot



tube projecting forward of the hub, and a spinner having an open end slidably engaging about the extended end of the pilot tube and secured to the bulkhead.

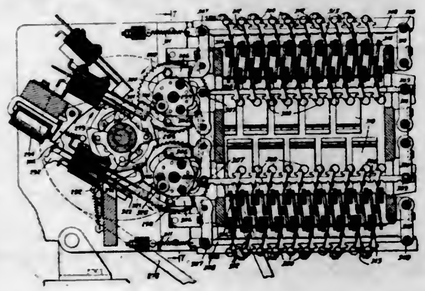
2,405,286
ELECTRIC VAPOR LAMP APPARATUS AND METHOD OF OPERATION
Harry K. Bourne, Rugby, England, assignor to General Electric Company, a corporation of New York
Application August 25, 1944, Serial No. 551,184
In Great Britain January 2, 1943
6 Claims. (Cl. 315—118)



5. The method of operating a high pressure metal vapor electric discharge device which comprises alternately applying relatively high and low power across the terminals thereof, and enclosing the device in a thermal insulating jacket only during the periods of operation at low power.

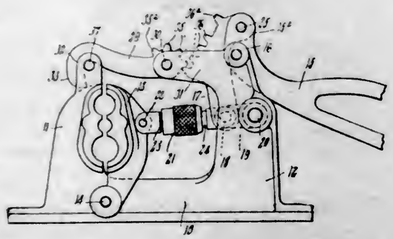
2,405,287
RECORD CONTROLLED ACCOUNTING MACHINE
Samuel Brand, Binghamton, and James M. Cunningham, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application March 3, 1942, Serial No. 433,173. Divided and this application January 1, 1943, Serial No. 471,652
9 Claims. (Cl. 235—61.6)

1. In a machine of the class described, an entry receiving device comprising a series of conductive slides arranged in parallel and mounted for reciprocation, a series of contact elements, one series for each slide, each series including an element for each of the digits of a notation, carried by and in electrical contact with the related slide, each element being movable to two alternate positions, the elements of the several slides related to the same digit lying in a common plane, a series of contact bars, one for each of the digits, each bar extending along a line adjacent to the related plane of elements transversely to the slides, any contact element upon being moved



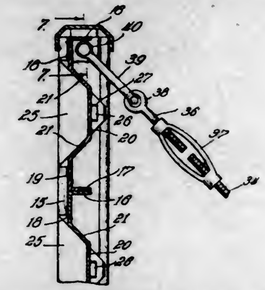
from its first to its second alternate position contacting the related contact bar to effect an electrical connection between a bar and a slide, a series of actuators, one for each set of like digital contact elements, said elements being normally unresponsive to the operation of the actuators, means for reciprocating the slides seriatim through the entire series of slides, means for operating said actuators, said series of contact elements being responsive to the operation of the actuators only during the reciprocation of the related slides.

2,405,288
PIPE VISE
Herbert G. Butt, Winthrop, Mass.
Application January 25, 1944, Serial No. 519,603
4 Claims. (Cl. 81—21)



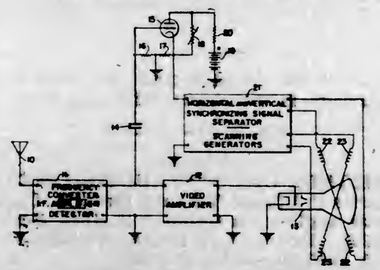
4. A vise comprising a base, separated standards rising from said base, a movable jaw cooperative with one standard to grasp articles, an operating lever mounted on the other standard, mechanism including a link operable by said lever for moving said jaw toward and away from the standard with which it cooperates, and a coupling member mounted on the same standard on which the operating lever is mounted and being movable into and out of coupled connection with the jaw-cooperative standard, said link and coupling member having interengaging teeth arranged to effect shifting of the coupling member away from its coupled position when the jaw is moved away from the cooperative standard and into its coupled position when the jaw is moved into grasping relation with the cooperative standard.

2,405,289
RETAINING WALL
Lloyd Cardwell, Oak Park, Ill.
Application March 7, 1945, Serial No. 581,429
11 Claims. (Cl. 61—39)



1. In a retaining wall, spaced columns each including flanged front, back, and side members with adjacent flanges interlocked, corrugated stringers between and overlapping adjacent columns, means to fasten the stringers to the columns, top members between adjacent columns having flanges overlapping column members, a guy, and a single fastener securing adjacent top members and column members and guy together.

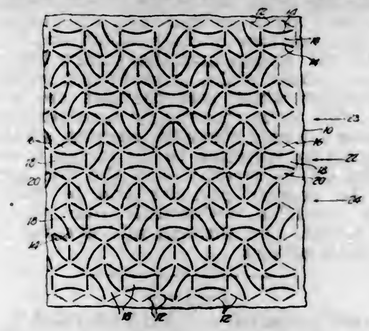
2,405,290
TELEVISION SIGNAL AMPLIFIER
Madison Cawein, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application March 29, 1943, Serial No. 480,978
10 Claims. (Cl. 178—7.5)



1. Apparatus for effecting a non-linear amplification of a composite television signal including video and synchronizing components comprising a single vacuum tube having input and output circuits, means for impressing said composite television signal upon said input circuit, a regenerative feed-back connection between said output and input circuits to effect a non-linear amplitude distortion of said amplified signal, and means including said feed-back connection to reproduce in said output circuit only one of said composite television signal components.

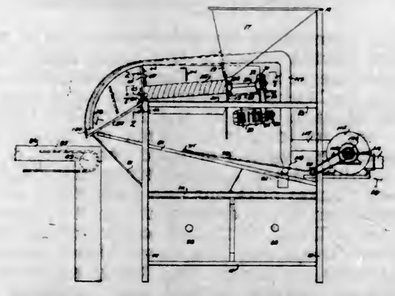
2,405,291
PRINTING SCREEN
Lawrence B. Corbett, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 10, 1944, Serial No. 562,888
3 Claims. (Cl. 95—81)

1. A gravure screen comprising a film having an openwork pattern formed thereon consisting of opaque lines constituting a honeycomb arrangement, each section of the honeycomb being



trisected by a pair of curved lines, said curved lines extending in different directions for adjacent sections.

2,405,292
NUT BLANCHING MACHINE
Harvey P. Curlee, near Charlotte, N. C.
Application January 24, 1944, Serial No. 519,574
6 Claims. (Cl. 146—32)



1. In a nut blanching machine having a hopper for holding the nuts, a pair of rolls disposed below and to one side of the hopper and extending away from the hopper, means for imparting rotation to the rolls to cause their upper surfaces to move away from each other, means for feeding nuts from the hopper onto said rolls, said rolls being mounted so as to slope away from the point where the nuts are fed thereonto, a rod disposed between the rolls for preventing nuts from falling between the rolls, side wall members extending into close proximity to the uppermost portions of the rolls, downwardly and inwardly converging vane members forming a part of the lower portion of the side wall members for deflecting the nuts upwardly against the side walls as they are moved towards the side walls by the rolls, said rolls having an abrasive covering thereon, a screen onto which the nuts are adapted to fall after passing over the length of the rolls, brush means for regulating the rate of flow of the nuts from the rolls onto said screen, an inspection table disposed adjacent one end of said screen, and onto which the nuts are adapted to fall, the particles and pieces of nuts and some of the skin removed in the blanching operation being adapted to fall through said screen, a vibrating frame disposed below said screen and having a screen portion in one end thereof onto which the particles and skins and the like passing through the first screen are adapted to fall, means for imparting vibration to said screen frame, the

finest particles being adapted to fall through the screen and the screen frame into a suitable receptacle, the lower end of the screen frame having a sheet metal portion onto which the particles and portions of nuts which do not pass through the screen and the screen frame are adapted to pass, a slot in said sheet metal portion through which said particles are adapted to fall, and to be received by a suitable second container disposed below the opening, and means for imparting vibration to the screen frame for assisting in the separation of the fine particles from the coarser particles and to move the coarser particles downwardly over the sheet metal portion and through said opening in the sheet metal portion.

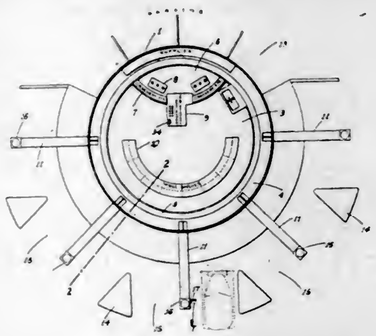
2,405,293
OPEN-FACED AIR FILTER FRAME
Verner Dahlman, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware
Application April 7, 1944, Serial No. 529,978
5 Claims. (Cl. 183—71)

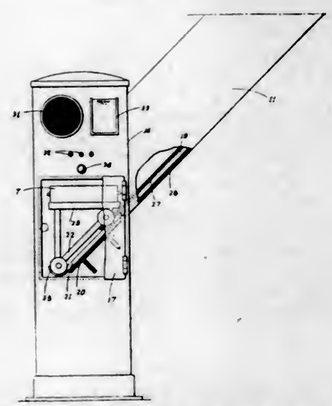


1. An open-faced air filter frame for a filter medium having opposite end edges comprising: U-shaped frame members forming peripheral side and end walls and face flanges on each wall, the flanges at each face of the frame overlapping at the corners to provide corner lap joints; and means for sealing the opposed end edges of the filter medium along opposed transverse edges of the face flanges adjacent one face of the cell so that each end space, defined within the frame by each end wall and its flanges, communicates with the space on one side of a secured filter medium; at least one peripheral wall being arranged to provide an opening at one end, exposing the inner face of the adjacent corner lap joint sufficiently to permit opposed inner and outer face portions of the lap joint to be engaged by spot welding equipment.

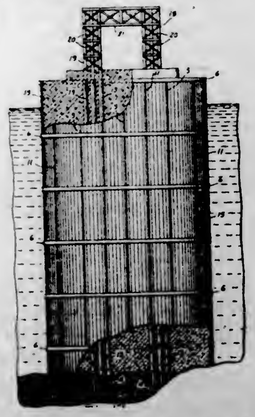
2,405,294
DRIVE-IN SERVING SYSTEM
Anthony W. Delucchi, Stockton, Calif., assignor of one-half to Henry A. Stagnaro, Stockton, Calif.
Application October 27, 1944, Serial No. 560,659
4 Claims. (Cl. 186—1)

1. A drive-in serving system comprising a building having a lower and an upper story, means defining a plurality of parking stations exteriorly of and adjacent the building, a dispensing stand mounted along each of said parking stations, a separate chute extending from within the upper story of the building downwardly and outwardly to each dispensing stand, a carriage arranged to run in each chute from a loading point in the building to an unloading point at said stand, and means to raise or lower said carriage; said stands each comprising a housing into which the chute extends, the carriage when lowered being disposed in the housing, and a door on each housing opening toward the adjacent parking station, the door when open providing access to the carriage when the latter is lowered, the carriage being laterally movable when in the housing, the chute bottom at its lower end being a separate part mounted on and movable with the door whereby when the carriage is in the housing and the door is open, the carriage is withdrawn with the door.



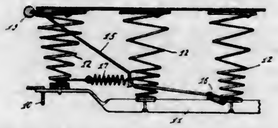


2,405,295
METHOD OF CONSTRUCTING PIERS
Charles P. Disney, Toronto, Ontario, Canada
Original application October 20, 1944, Serial No. 559,607. Divided and this application November 5, 1945, Serial No. 626,761
5 Claims. (Cl. 61—52)



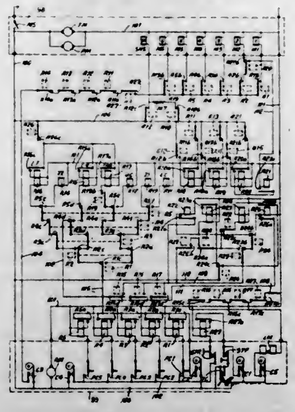
5. The method of building a pier which comprises forming a block of concrete resting upon the bottom and extending above the top of a body of water and having holes extending therethrough from top to bottom, drilling holes into the bedrock beneath the block of concrete in alinement with said holes, positioning steel reinforcing members in said holes with their lower ends extending into the bedrock and filling said holes with concrete to embed said reinforcing members.

2,405,296
BEDSPRING
Charles J. Elder, Muncie, Ind., assignor to The Moore Company, Muncie, Ind., a corporation of Indiana
Application August 24, 1944, Serial No. 550,931
3 Claims. (Cl. 5—262)



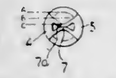
2. In a bed spring, a base frame, spring elements secured to and supported upon said base frame and extending upwardly therefrom, a metal border frame surrounding the upper ends of said spring elements and secured to marginal ones thereof, and a stabilizer acting between said frames, said stabilizer comprising a rigid bar having an elongated opening extending transversely of the bar near one end, said border frame being provided with a slot receiving the end of said bar, the metal on at least one side of said slot being displaced into the opening of the bar to prevent withdrawal of the bar from the slot, and spring means connected between said bar and base frame.

2,405,297
TELEGRAPHIC PRINTING APPARATUS
Clyde J. Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 17, 1945, Serial No. 583,227
11 Claims. (Cl. 178—4)



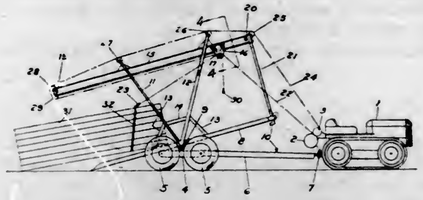
1. In a printing telegraph apparatus for translating into a printed message combinational code signals in a code based on a small number of different code positions, a printer having a keyboard comprising a larger number of keys than the possible number of different combinations of the code, and means responsive to the signals for selectively operating the keys of said keyboard, including zoning means responsive to certain zone shift signal combinations for routing succeeding signals to different zones of the keyboard comprising different groups of keys.

2,405,298
TWIST DRILL
John Fleischer, Van Dyke, Mich.
Application April 20, 1944, Serial No. 531,878
8 Claims. (Cl. 76—108)



1. The method of making a lubricated twist drill from tube stock which comprises cutting relief sections of reduced diameter and substantially uniform wall thickness on each side of the tube while leaving other sections of the tube wall of unreduced thickness, displacing the relief sections so as to bring the metal in the relief sections together at the center of the tube and leave sharp corners between the relief sections and the original outside circumference of the tube, twisting the so formed tube to form the spiral and sharpening the formed drill.

2,405,299
TRAILER
Gordon Godwin, Montreal, Quebec, Canada, assignor to The Ontario Paper Company Limited, Thorold, Ontario, Canada
Application May 16, 1945, Serial No. 594,010
In Canada February 19, 1945
4 Claims. (Cl. 214—85)

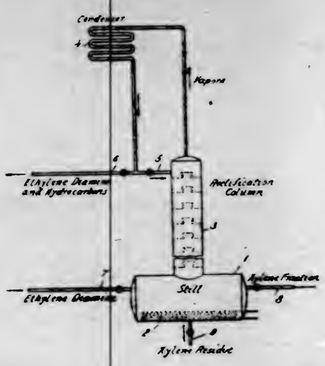


1. A loading and transporting vehicle comprising an undercarriage, a load carrying platform mounted thereon and automatically tiltable on an axis disposed transversely of the vehicle, a track mounted above the platform and extending longitudinally of the vehicle, a traveller on said track, a sheave carried by said traveller, cable traction means located adjacent one end of said platform, a cable extending from said traction means and passing over the sheave carried by the traveller, and means at the free end of said cable for engaging material to be loaded onto the vehicle.

2,405,300
RECOVERY OF XYLENES
Richard B. Greenburg, Melrose Park, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application January 7, 1944, Serial No. 517,335
4 Claims. (Cl. 202—42)

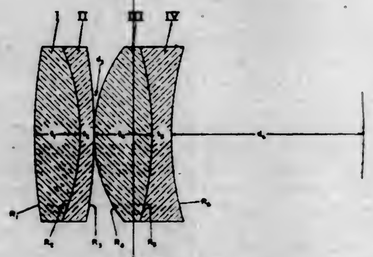
1. A process for the recovery of xylene from a complex hydrocarbon fraction having a top

boiling point no higher than 150° C. containing xylene and non-aromatic hydrocarbons which distill from said fraction in the same temperature range as the xylene distills therefrom, which comprises azeotropically distilling said fraction and rectifying the vapors evolved therefrom in the presence of ethylene diamine substantially free from water, thereby removing said non-



aromatic hydrocarbons as azeotropic distillate with ethylene diamine, and maintaining the presence of ethylene diamine during said distillation until the residue of distillation contains at least 95 parts by weight of xylene to every 5 parts by weight of non-aromatic hydrocarbons which distill in the absence of ethylene diamine in the same temperature range as the xylene.

2,405,301
OPTICAL SYSTEM
David S. Grey, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 23, 1943, Serial No. 484,207
5 Claims. (Cl. 88—57)



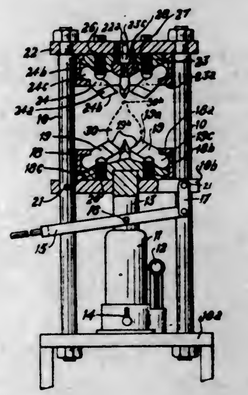
LENS	RADIUS	THICKNESS	N_D	V
I	R_1=218.39	t_1= 23.89	1.5104	57
	R_2=111.62			
II	R_3=111.62	t_2= 7.26	1.5981	31
	R_4=55.17	d_2= 0		
III	R_5= 55.70	t_3= 30.07	1.5105	57
	R_6=165.69			
IV	R_7=165.69	t_4= 10.29	1.5981	31
	R_8=146.37	d_4= 100.05		

1. As a new product, an F/1.6 collimator lens corrected for spherical aberration, coma, chromatic aberration and variation of spherical aberration with color to approximately thirty seconds of arc and comprising a pair of axially symmetrical doublets of substantially equal power substantially in contact, the foremost doublet consisting of a foremost positive lens of crown material having a focal length of from one to two times the focal length of the collimator and a negative lens of flint material having a focal length of from 1.5 to 3.5 times the focal length of the collimator, the second doublet consisting of a foremost positive lens of crown material having a focal length of from 0.5 to 1.2 times the focal length of the collimator and a negative lens of flint material having a focal length of from 0.75 to 1.5 times the focal length of the collimator, the flint and crown materials having a difference in indices of refraction between 0.6 and 0.10 and a difference in dispersive indices in excess of 20, with the flint material having the higher refractive index.

2,405,302
COMPOSITION FOR AND METHOD OF PURIFYING ELECTROLYTES
Dinsmore Laurence Griffith and Luther Glenn Hendrickson, Flin Flon, Manitoba, Canada, assignors to Hudson Bay Mining and Smelting Company, Limited, Winnipeg, Manitoba, Canada, a corporation of Canada
No Drawing. Application August 26, 1943, Serial No. 500,164
3 Claims. (Cl. 23—50)

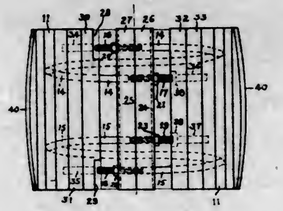
2. In the purification of zinc electrolytes by means of metallic precipitants, the step of contacting the electrolyte with zinc dust coated with copper and indium as the precipitant.

2,405,303
APPARATUS FOR CRACKING NUTS
William F. Grupe, Lyndhurst, N. J., assignor to Brazil Babassu Corporation, New York, N. Y., a corporation of New York
Application April 9, 1943, Serial No. 482,357
12 Claims. (Cl. 146—10)



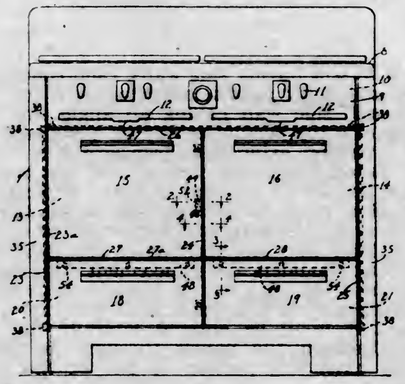
1. The combination of a power unit for cracking a nut or the like provided with a source of constant application of continuously increasing pressure, a set of radially related knives displaceable by the power imparting element of said power unit, a second set of radially related knives mounted in alignment with the path of displacement of said first named set of knives, and a curvedly configurated head disposed inwardly of said second named set of knives, said curvedly configurated head being provided with an unobstructed through-passage for receiving and discharging a relatively central part of the end of such nut or the like upon severance of the same by said second set of knives.

2,405,304
LAGGING AND METHOD OF MAKING THE SAME
Arthur Havel, Ainsworth, Iowa
Application November 15, 1941, Serial No. 419,297
7 Claims. (Cl. 74—230.18)



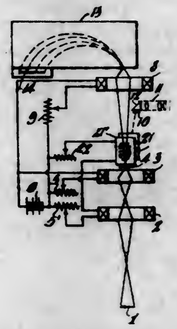
1. A lagging comprising a multiplicity of blocks having tapered sides and adapted to form a generally cylindrical construction, a continuous channel in the cylindrical block assembly extending more than completely around the same and disposed between its inner and outer peripheries the overlapping portions being separated by block structure, a rod received in said channel and extending more than completely around the block assembly, means for holding one end of said rod against substantial movement through said channel in one direction, threads on the other end of said rod and a nut on the threaded end of said rod adapted to at least indirectly engage one of said blocks whereby movement of the threaded end of said rod in said channel is effected.

2,405,305
OVEN DOOR SEAL
John F. Hennessy, Denver, Colo., and John I. Thulander, Chicago, Ill., assignors to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Original application November 12, 1940, Serial No. 365,262. Divided and this application May 24, 1943, Serial No. 488,119
11 Claims. (Cl. 20—69)



2. The combination of a frame, a closure and a panel thereon having the edge portions thereof in closely spaced substantially parallel relation to one another, and a spring metal sealing strip comprising an attaching portion secured to the frame, having a longitudinally extending compressible sealing portion in substantially right angle relation to the attaching portion and of generally C-shaped section, one longitudinal edge portion of which is rigid with the attaching portion and the other edge portion of which is freely movable toward and away from the first edge portion, whereby the C-shaped section opens rearwardly toward the frame, said sealing portion being disposed between the edge portions of the panel and closure and compressed by engagement of said edge portions with the opposite sides thereof, and a relatively rigid supporting strip of generally L-shaped section having one leg of the L overlying the attaching portion of said sealing strip and secured with it to the frame and the other leg of the L projecting forwardly from the frame into engagement with the inner side of the bend at the juncture of the longitudinal edge portions of the C-shaped sealing portion to support the latter for compression of either longitudinal edge portion more or less independently of the other longitudinal edge portion by engagement thereof between said panel and closure.

2,405,306
ELECTRONIC MICROANALYZER MONITORING
James Hillier, Cranbury, and Richard F. Baker, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 31, 1944, Serial No. 520,410
17 Claims. (Cl. 250—49.5)

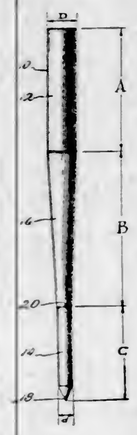


2. An electron microanalyzer including electron beam generating means and electron beam focusing means for providing an electron probe having extremely minute cross-sectional area, means for supporting an object, means for irradiating said object by said electron probe, an electron sensitive screen responsive to electrons from said object, means interposed between said screen and said object means providing a field for deflecting said electrons derived from said object as a function of their velocity to provide an electron velocity distribution image on said screen, and electronic means for continuously providing a visible image of said electron probe irradiated portion of said object means independently of and simultaneously with said deflection of said electrons as a function of their velocity.

2,405,307
PHONOGRAPH NEEDLE
William H. Hutter, Chicago, Ill.
Application October 23, 1943, Serial No. 507,354
8 Claims. (Cl. 274—38)

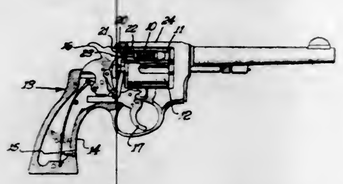
1. As a new article of manufacture, a phonograph needle having a shank, a cylindrical end portion having a diameter less than the diameter of said shank, and a substantially conically

shaped tapered portion connecting said shank with said end portion and integral therewith, said



tapered portion merging at either end with said shank portion and said end portion respectively.

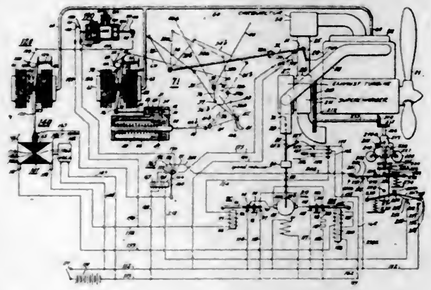
2,405,308
DRY FIRING CARTRIDGE
Joe F. Jack, Arcadia, Calif.
Application March 13, 1944, Serial No. 526,159
8 Claims. (Cl. 35—25)



1. The combination with a firearm having a cylinder or chamber and a firing pin; of a cartridge-like device fitting in said cylinder or chamber and having a resiliently mounted member for receiving and cushioning blows of said pin, the weight of said cartridge-like device being approximately equal to that of a live cartridge of the same caliber.

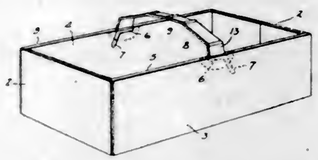
2,405,309
SYSTEM OF CONTROL FOR SUPERCHARGED ENGINES
Clarence H. Jorgensen and Edward M. Claytor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 30, 1943, Serial No. 500,548
16 Claims. (Cl. 60—13)

13. A system of control for supercharged engines comprising a supercharger, a supercharger-driver, a speed controller for the supercharger-driver, a servo-motor for operating the speed controller, a manually adjusted pressure selecting element, an element responsive to intake pressure, and means under the control of both said elements for causing the servo motor to be non-operative when the intake pressure equals the selected pressure and for causing the servo-motor to operate to increase supercharger speed when the intake-pressure is less than the selected pressure and for causing the servo-motor to operate to decrease supercharger speed when the intake pressure is greater than the selected pressure, said means including provisions for causing the rate of accumulation of motion of the servo-motor to



diminish as the motor operates to correct the supercharger speed, and means responsive to an abrupt increase in selected pressure, and operative independently of the magnitude thereof, for causing a momentary maximum rate of accumulation of motion as it operates initially to effect and increase the supercharger speed.

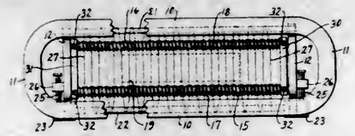
2,405,310
BASKET HANDLE
Daniel A. Larkin, Sandusky, Ohio, assignor to The Hinde & Dauch Company, Sandusky, Ohio, a corporation of Ohio
Application April 3, 1944, Serial No. 529,291
3 Claims. (Cl. 229—52A)



1. A basket having side walls, each comprising inner and outer panels connected by a top edge fold, each side wall having an angle slot consisting of a top portion extending along said fold and a portion extending downwardly in one of said panels from one end of said top portion, and a handle having flat portions adjacent its ends of a width to substantially fit in the top portions of said slots and flat heads of greater width than said top portions of the slots, each providing shoulders for engagement with the interior of a top edge fold at opposite ends of the top portion of a slot, each head being of a size to permit it to be entered laterally into the space between the panels through the downwardly extending portion of one of the angle slots.

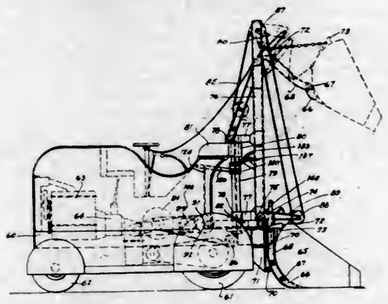
2,405,311
DEVICE FOR SLICING BUTTER OR THE LIKE
Louis Livadas, Springfield, Ohio
Application March 15, 1944, Serial No. 526,607
10 Claims. (Cl. 30—117)

1. A food slicer of the character described which comprises a supporting frame, a pair of longitudinally extending spring means supported from said frame with the lower sides thereof extending substantially into the plane of the bottom of said frame, means forming a plurality of cutting wires extending transversely of said spring means and engaging therewith at intervals to determine the spacing thereof, said cutting



wires extending to the lower side of said spring means to be effective for cutting purposes substantially in the plane of the bottom of said frame, and means for causing the expansion and contraction of said spring means to vary the spacing of said cutting wires.

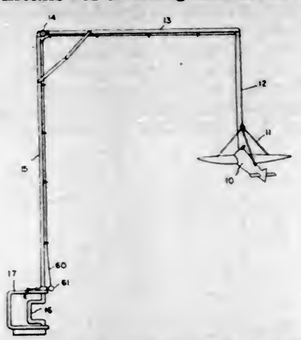
2,405,312
LOADING MACHINE
Obert G. Mandt, Upper Arlington, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application June 3, 1944, Serial No. 538,640
2 Claims. (Cl. 214—112)



1. Portable load-handling mechanism comprising a base, a tubular column arising from said base, a vertical mast structure joined with said column for turning movement about the vertical axis thereof, a carrier frame mounted for vertical guided travel on said mast structure, a receiver for materials to be loaded connected with said carrier frame, normally locked clutch controlled power-driven means for imparting turning movement to said mast structure in either direction from a centered position, an independently controlled power-driven drum on said base, cable means connected with said drum and passing through said column and over said mast structure for association with said carrier frame to impart controlled raising and lowering movement thereto, and means operative automatically following predetermined elevation of said carrier frame on said mast structure to unlock the mast-turning means, thereby rendering the same operative to impart controlled turning movement to the mast structure.

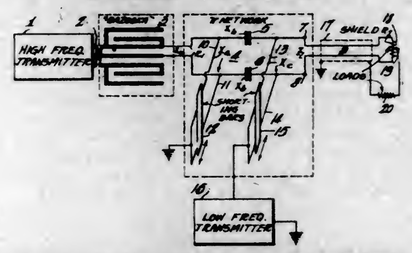
2,405,313
TOY BOMBER AIRPLANE
Paul J. Martin, Detroit, Mich.
Application November 8, 1944, Serial No. 562,444
3 Claims. (Cl. 46—77)

1. A toy consisting of a toy airplane provided with bomb releasing means and with flight simulation means, said latter means comprising a mast having a horizontal arm at its upper end, means for suspending said airplane from the end of said arm, and means for rotating said mast and arm,



said rotating means consisting of a grip member, and a crank mounted in rotative relation in said grip member, said crank being directly connected to said mast, and means actuated from said grip member for operating said bomb releasing means.

2,405,314
TRANSMISSION COUPLING CIRCUIT
Robert W. Masters, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 9, 1943, Serial No. 490,379
2 Claims. (Cl. 178—44)

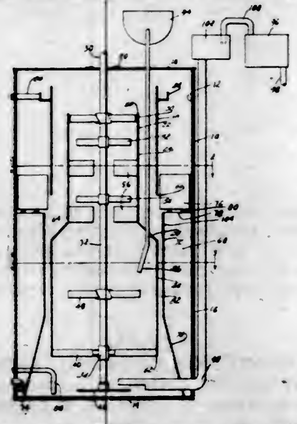


1. A circuit for relatively isolating two generators having different output frequencies, said generators being coupled to a common transmission line including balanced means for connecting said line to a source of high frequency oscillations, second balanced means for connecting said line to a source of relatively lower frequency oscillations, means for making said high frequency connections at points on said line at balanced potential with respect to said lower frequency generator, means including capacitors serially connected in said line for making said lower frequency connections at second points on said line substantially at ground potential for said higher frequency generator and means for connecting said line to a load device.

2,405,315
PURIFICATION OF SUGAR JUICE
George A. McBride, Barrington, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application July 1, 1942, Serial No. 449,360
8 Claims. (Cl. 127—48)

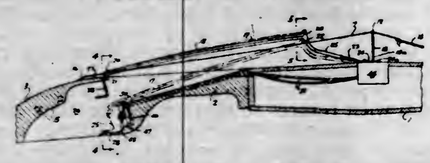
1. A process for continuously clarifying sugar juice comprising the steps of maintaining a continuous stream of constant volume of said juice; heating said stream of juice to a temperature approaching the boiling point of said juice; intro-

ducing the stream of said juice into a confined mixing and reaction zone; continuously circulating a slurry containing juice undergoing treatment and unsedimented solids retained from previously treated juice in the mixing and reaction zone; rapidly mixing said juice and said slurry; continuously feeding lime into said mixing and reaction zone at a point removed from the point of introduction of the heated juice and mixing the same with said mixture of juice and slurry; circulating the resulting mixture of juice and



solids from said mixing zone, through a less turbulent return flow zone and back into said mixing zone at a velocity sufficient to prevent sedimentation of solids from the circulating mixture; displacing clarified juice from said circulating juice in said return flow zone by entry of raw juice into said mixing zone; removing said clarified juice upwardly through a quiescent zone above said return flow zone; removing excess solids to waste from said return flow zone; and maintaining all of the juice throughout the process at a substantially uniform temperature approaching the boiling point of said juice.

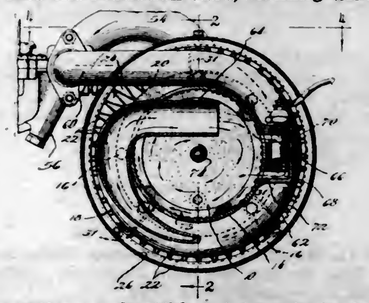
2,405,316
STRINGED MUSICAL INSTRUMENT
John W. McBride, Burbank, Calif.
Application January 26, 1943, Serial No. 473,601
21 Claims. (Cl. 84—315)



1. In a mechanism for adjusting the free length of a tensioned string for a musical instrument, a bar having one or more crests on one side thereof and engaging said string, and means for moving said bar in a direction to pass the string, to cause the crests to move progressively with respect to the string.

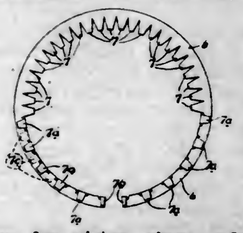
2,405,317
HEATER
Henry J. De N. McCollum, Chicago, Ill.; Thelma McCollum, executrix of said Henry J. De N. McCollum, deceased
Application April 29, 1943, Serial No. 484,971
3 Claims. (Cl. 158—28)

3. A heater of the class described, comprising a cylindrical wall and an end wall forming a combustion chamber of cylindrical form, a heat exchanger having one end in open communication with said combustion chamber to receive hot products of combustion therefrom, means directing ventilating air over said heat exchanger and including a casing through which said air travels, an induction tube of relatively large bore connected into said casing intermediate the ends of the heat exchanger for diverting a portion of the air flowing through said casing, a carburetor arranged to feed liquid fuel into the air thus diverted into the induction tube, forming with said



air the entire combustible mixture to be burned in the heater, said tube extending beyond said carburetor in a curved form wrapped around the cylindrical wall of the combustion chamber in heat exchange relation therewith for heating the combustible mixture in the induction tube, said tube terminating in a straight end portion of appreciable length which extends through said cylindrical wall of the combustion chamber and substantially across the chamber at one side of the axis thereof, and means for igniting said mixture as it enters the combustion chamber.

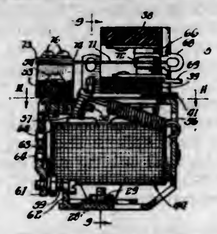
2,405,318
PISTON RING SPACER
Thurlow E. McFall, Sparta, Mich.
Application January 3, 1944, Serial No. 516,827
9 Claims. (Cl. 309—44)



1. A spacer for piston rings, adapted to be located between upper and lower side rails of a ring comprising, a single length of flat metal formed into substantially circular form and parted at one side, said spacer at its inner side of the body thereof having integral tongues extending therefrom return bent back upon the body of the spacer and toward its outer edge, said tongues being alternately located over and under the body of the spacer.

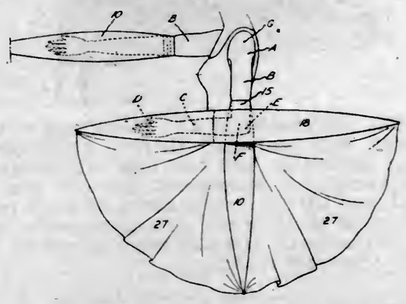
2,405,319
RELAY
Archie J. McMaster, Deerfield, and Larry Jacobson, Chicago, Ill., assignors to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application March 10, 1943, Serial No. 478,620
10 Claims. (Cl. 200—87)

3. In a relay of the character described, a frame member of relatively U shaped cross section formed of material having suitable magnetic properties, a trunnion bracket formed preferably of non-magnetic material wedged between legs of the U to form a box-like frame, a pair of coils having a core with one pole thereof secured to the web portion of said U shaped frame, an armature pivoted to the trunnion bracket, at



points substantially aligned with one leg of said U, a stationary contact assembly carried by said last-mentioned leg of the U, and a movable contact assembly carried by the armature, said contact assembly and main portion of the armature being substantially balanced on opposite sides of the axis of rotation of said armature.

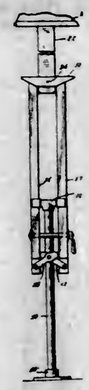
2,405,320
NOTICE IMPELLING DEVICE
René Misteli, New York, N. Y.
Application March 31, 1944, Serial No. 528,861
12 Claims. (Cl. 272—21)



12. A device of the class described comprising two elements for use on a limb of a wearer, one of the elements provided with fastening means for encircling the upper portion of the limb above its joint on one side thereof and the other element provided with fastening means for encircling the lower portion of the limb below its joint on the opposite side thereof.

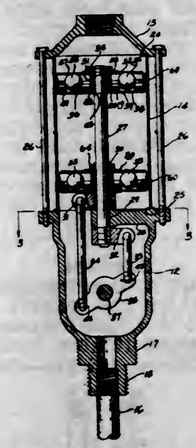
2,405,321
SHORE
Albert Negovan, Chicago, Ill., and Estel R. Stratton and William Clark Roggie, Indianapolis, Ind., assignors to Baker-Roos, Inc., Indianapolis, Ind., a corporation of Indiana
Application August 6, 1943, Serial No. 497,674
10 Claims. (Cl. 248—354)

1. In a shore having upper and lower telescoping parts, said upper part comprising two laterally spaced, vertically extending members, a cap having end portions respectively overlying the ends of said members and flanges interconnecting said end portions and extending across the space between said members at opposite sides thereof, said cap being provided with a central stirrup extending downwardly between said two members and said flanges and having side and bottom walls, a shore-extension, and a sleeve upon the lower end of said extension, said sleeve being adapted to be received in said stirrup and between said flanges, opposite sides of said sleeve



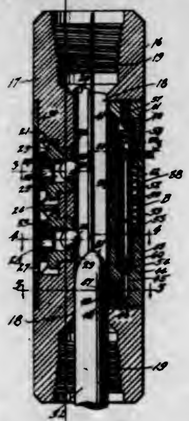
and the side walls of said stirrup being provided with closely interfitting, longitudinally extending tongues and grooves preventing relative movement of said sleeve and stirrup in a plane perpendicular to said flanges.

2,405,322
FLUID PUMP
Thomas D. Nisbet, Rocky River, Ohio
Application July 10, 1945, Serial No. 604,244
11 Claims. (Cl. 103—200)



1. A fluid pump, comprising an intake housing, a discharge housing, a cylinder mounted between the intake housing and the discharge housing, a first and a second piston independently operable in said cylinder, means including a first connecting link for reciprocally actuating the first piston and a second connecting link for reciprocally actuating the second piston, and an L-shaped lever having a first portion and a second portion, means for mounting the first portion of the L-shaped lever for rocking movement in the intake housing, said second portion of the lever extending externally of the intake housing and being disposed for manual operation, rocker means in said intake housing connected to the first portion of the L-shaped lever for operating the connecting links and thereby independently reciprocating the pistons within the cylinder.

2,405,323
SYSTEM AND APPARATUS FOR FLOWING WELLS
Jeddy D. Nixon, New Braunfels, Tex.
Application June 29, 1944, Serial No. 544,397
18 Claims. (Cl. 103—233)



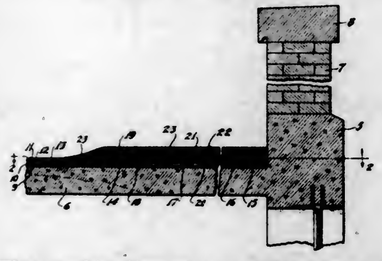
1. The system of flowing a well having tubing therein receiving well fluid flowing from the producing formation which includes, means providing a source of pressure fluid outside of the tubing, means operable from the surface at the top of the well for controlling the admission of pressure fluid to the tubing to lift a predetermined column of well fluid from a given elevation, means for automatically admitting additional pressure fluid to the tubing at substantially said given elevation when the hydrostatic head of the well fluid column sets up a predetermined pressure differential to co-act with the first admitted lifting fluid to maintain continuous lifting of said increased column and prevent channeling of said lifting fluid therethrough, and means for automatically shutting off the admission of such additional pressure fluid when a predetermined increased inward flow velocity is reached.

2,405,324
SYSTEM OF AND APPARATUS FOR FLOWING WELLS
Jeddy D. Nixon, New Braunfels, Tex.
Application January 12, 1945, Serial No. 572,490
20 Claims. (Cl. 103—240)



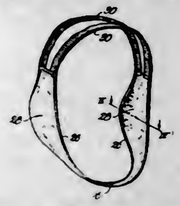
1. A system of flowing wells having casing and tubing therein which includes, means for packing off the casing and maintaining therein a reservoir of pressure fluid under working pressure, means for accumulating a relatively small quantity of well fluid at the bottom of the well in a confined area, means for periodically admitting a proportionate quantity of pressure fluid from said reservoir to the accumulating means to displace each accumulation of well fluid, whereby the well fluid is displaced in a series of stages, means for collecting the displaced well fluid in a single body in a confined area at the bottom of the well through a period of several stages of displacement until a quantity of well fluid has been collected, and means for admitting pressure fluid from the reservoir to the collecting area in sufficient quantity to displace the body of collected well fluid into the well tubing and elevate it to the top of said tubing and discharge it therefrom during a continuous operation.

2,405,325
ROOFING
Edward T. Parsons, Upper Montclair, and Hilon Willard Sawyer, Nutley, N. J.
Application February 21, 1945, Serial No. 579,048
5 Claims. (Cl. 108—6)



1. The combination of a roof deck and an upstanding wall connected thereto, a composite roofing secured on said roof deck and comprising a plurality of superposed alternate plies of asphalt and felt the outer margins of which have an edgewise abutting and watertight sealed contact with said wall, said wall being uncovered upwardly from said roofing.

2,405,326
EAR MUFF
Louis Plotsky, Kansas City, Mo.
Application March 13, 1944, Serial No. 526,202
4 Claims. (Cl. 2—209)



1. Ear muffs of the character described, comprising an annular fabric body having an elastic section therein for resting against the top of the head; a chin-engaging portion substantially diametrically opposite to the elastic section; and a concavo-convex, relatively wide area integral with the chin-engaging portion at each side thereof, adjacent to the elastic section for receiving the ears of the wearer, said areas each having a straight longitudinal edge and a convex longitudinal edge to create the relatively wide area, the convex edge being gathered to establish the

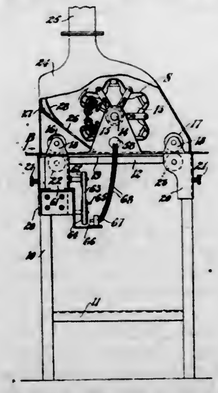
said concavo-convex contour, the marginal portion of the body along the opposite edge of each area being smooth whereby to establish concavo-convex areas progressively increasing in depth as said convex edge of the area is approached.

2,405,327
MESSAGE SHEET
William P. Rend, Chicago, Ill.
Application September 1, 1943, Serial No. 500,784
3 Claims. (Cl. 229—92.1)



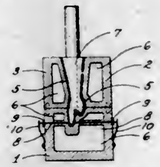
1. A message form comprising a rectangular message sheet, narrow top and bottom extensions, each connected to the message sheet by a line of perforations, and a sealing flap projecting upwardly from a center portion of the said top message sheet extension, said sealing flap occupying approximately half of, but not more than half of, the width of the message form, said message form being folded along parallel vertical lines to lay side portions above a center portion with side edges contiguous to each other along a center line of the message form, and the message form so folded being again folded on a transverse line to align the said top and bottom lines of perforations and envelope said side edges, said sealing flap being foldable for sealing to a contiguous back portion of said bottom message form extension, the message form after sealing being opened by a single tearing motion along the lines of perforations to separate the top and bottom extension from the message sheet.

2,405,328
SANDING MACHINE
Joseph Robinson, Jr., Dover, Ohio, assignor to Marsh Wall Products, Inc., Dover, Ohio, a corporation of Ohio
Application November 2, 1945, Serial No. 626,237
15 Claims. (Cl. 51—78)



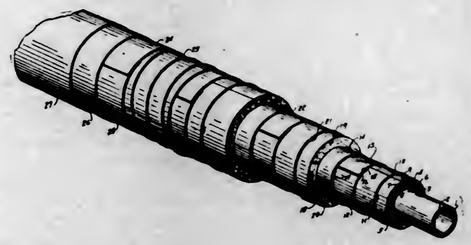
1. A surface finishing machine including a rotating drum, a sheet of flexible surface finishing material located around said drum, a winding roll and an unwinding roll engaging opposite end portions of said sheet of surface finishing material, means for moving work through the machine in contact with the surface finishing material and means controlled by the movement of the work for operating the winding roll and unwinding roll for moving the sheet of surface finishing material circumferentially around the drum.

2,405,329
METHOD OF MOLDING GLOVES
Clayton F. Ruebensaal, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application May 23, 1944, Serial No. 536,877
6 Claims. (Cl. 18—58)



1. The method of making hollow synthetic resin articles which includes the steps of flowing a thermoplastic synthetic resin about a core having a free end maintained in a predetermined position in a mold cavity by mechanical movable means engaging the core near its free end, cooling and thereby setting part of the resin while maintaining the resin adjacent to said free end in flowable condition, retracting said movable means from engagement with said core, and then cooling and thereby setting the still flowable resin about the free end of the core.

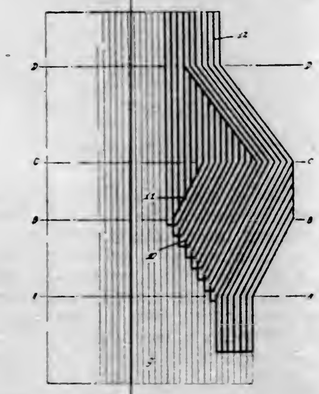
2,405,330
INSULATING STRUCTURE
Willard D. Ryder, Tulsa, Okla.
Application April 12, 1941, Serial No. 388,325
5 Claims. (Cl. 154—44)



1. A structure of the character described including a base element having an exterior surface normally tending to condense moisture, a moisture resistant coating on said surface and having an adhesive property, a layer of preformed fibrous sections of siliceous material having adjacent edges closely contacting each other and having an inner surface conforming to the surface of the base element for intimately contacting the fibers at said inner surface with said adhesive coating whereby said coating seals said inner surface of said sections, said sections providing a substantially uniform fibrous mass of material thickness on said base element, a second layer of similarly formed sections having contacting edges staggered with respect to the sections forming the first layer, an impervious sealing material also of adhesive property interposed

between said layers and sealed to the fibers of the respective layers, and an impervious cover on the outer of said layers, said cover and impervious sealing material cooperating with the coating to exclude moisture from entrance into said fibrous layers.

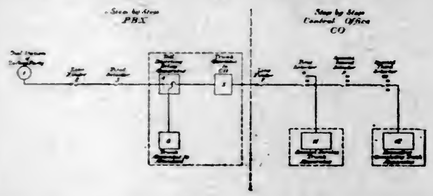
2,405,331
STOCKING
August A. Sanderson, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a corporation of Illinois
Application January 8, 1945, Serial No. 571,755
5 Claims. (Cl. 66—187)



1. A flat-knit hosiery blank the stitches of which are arranged in transverse courses and generally longitudinal wales, said blank having a leg-forming portion, a foot-forming portion, and an intermediate portion, said intermediate portion being divided by longitudinally spaced courses of stitches into a first zone joining said leg-forming portion, a second zone joining the first zone, and a third zone joining the second zone and said foot-forming portion, said first and second zones including a plurality of transfer courses in each of which a group of stitches at each end of the course are transferred outwardly to form obliquely extending wales, the number of outwardly transferred stitches in transfer courses of the first and second zones progressively increasing throughout the first zone and progressively decreasing throughout the second zone, said third zone including a plurality of transfer courses in each of which a group of stitches at each end of the course are transferred inwardly, the number of stitches in the courses of said intermediate blank-portion progressively increasing in the first zone, being constant in the second zone, and decreasing in the third zone, whereby the width of the blank will progressively increase throughout the first zone, remain constant throughout the second zone, and progressively decrease throughout the third zone.

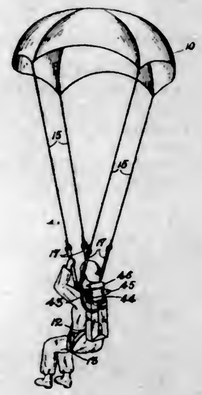
2,405,332
TOLL TELEPHONE DIVERSION SYSTEM
Harold Henry Schroeppel, Glen Rock, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application November 7, 1944, Serial No. 562,281
5 Claims. (Cl. 178—27)

2. In a step-by-step telephone system, the combination of a PBX serving one or more dial telephone stations within its area, a central office which may be connected to said PBX, a positively grounded battery and a negatively grounded battery at said central office, a polar relay at said PBX, means responsive to a first predetermined code received by said PBX from a dial station within its area to establish a circuit from said dial station through said PBX to said central office and to connect the positively grounded battery to said circuit, said polar relay being connected to



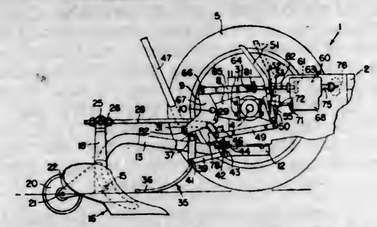
said positively grounded battery but remaining unoperated, means responsive to a second predetermined code received by said PBX from a dial station within its area to establish a circuit from said dial station through said PBX to said central office and to connect the negatively grounded battery to said circuit so as to operate said polar relay, and means responsive to the operation of said polar relay to break the circuit between said PBX and said central office.

2,405,333
TWO-SPEED PARACHUTE
Hiram W. Sheridan, Oak Park, Ill.
Application August 6, 1942, Serial No. 453,766
3 Claims. (Cl. 244—151)



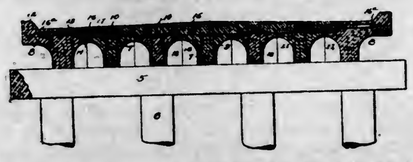
1. In a parachute apparatus, a harness including at least two risers for supporting the weight of a parachutist, a large canopy connected directly to said risers, means for holding said large canopy from opening, latch mechanisms corresponding to and connected to each of said risers, a small canopy connected to said risers through said latch mechanisms, respectively, said latch mechanisms being normally and inherently effective to resist the pull of said small canopy, means connected to said small canopy and automatically operated thereby for releasing said large canopy holding means, and means for simultaneously releasing said latch mechanisms.

2,405,334
AUTOMATIC DEPTH CONTROL FOR AGRICULTURAL IMPLEMENTS
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 19, 1941, Serial No. 398,781
14 Claims. (Cl. 97—50)



1. An agricultural machine comprising a propelling unit, an implement including a movable ground working tool having suction and a forward point, means connecting said implement with said propelling means to accommodate tipping of the tool and relatively free floating movement of the implement relative to said propelling unit, gauging means movably connected with said implement and movable relative thereto when the operating depth of said tool varies, controllable means on said propelling unit connected with said implement for tipping the point of said tool upwardly or downwardly so as to tend to decrease or increase the depth of operation, means connected with said controllable means for controlling the latter, and means connecting said controlling means with said gauging means and operable by movement of the latter relative to said tool in response to an increase or a decrease in the operating depth of said tool to operate said controllable means and tip the point of said tool upwardly or downwardly, respectively.

2,405,335
CONCRETE BRIDGE SUPERSTRUCTURE
William L. Turner, San Antonio, Tex., assignor of one-half to Bart Moore, Jr., San Antonio, Tex.
Application November 18, 1944, Serial No. 564,062
1 Claim. (Cl. 72—64)

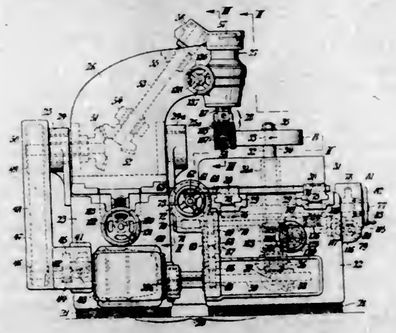


A concrete bridge superstructure composed of a plurality of inner girders and a pair of outer girders laid together side by side, said inner girders being of substantially T-shape in cross-section, so that the edges of their head portions may contact to cause their upper surfaces to present a continuous floor while leaving open arches between said inner girders, said outer girders comprising portions which lie at the level of the floor presented by the tops of the inner girders and additional portions which lie at a higher level and a road forming slab laid upon the floor presented by the tops of the inner girders and the portions of lower level of the outer girders, said slab tying together all the T-shaped girders and the pair of outer girders, the top of said slab adjacent its outer edges lying at the level of the portions of higher level of the outer girders, and curb portions upon the outer girders which extend above the portion of higher level of said outer girders.

2,405,336
POLYCHLOROPRENE COMPOSITION
Gerald von Stroh, Berkeley, Calif., assignor to The Permanente Metals Corporation, Oakland, Calif., a corporation of Delaware
No Drawing. Application March 20, 1944, Serial No. 527,347
3 Claims. (Cl. 260—41)

2. Polymerized chloroprene synthetic rubber having uniformly dispersed therein a magnesia and carbon containing product obtained as a residue from the distillation of crude magnesium condensate produced in the carbothermic process for making magnesium.

2,405,337
GEAR CUTTING
John F. Waterfield, Philadelphia, Pa.
Application April 7, 1943, Serial No. 482,089
10 Claims. (Cl. 90—7)

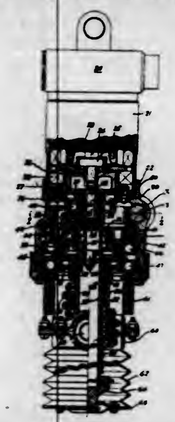


1. A gear cutting machine comprising a rotating support for a gear wheel blank; a juxtapositioned cutter head with a plurality of circumferentially-arranged lengthwise-extending individually movable cutter elements of gear tooth cross sectional configuration and of a number commensurate with that of the notches to be cut in the blank and respectively having multiple spaced transversely extending cutting edges; means for continuously rotating the blank and the cutter head at the proper relative speeds and in opposite directions while in constant peripheral contact; means for concurrently moving the cutter elements across the face of the blank during the periods of individual contact therewith respectively a distance equal substantially to the spacing between adjacent cutting edges; and means for gradually moving the blank and the cutter head toward each other laterally as they rotate together until the required depth of cut is obtained.

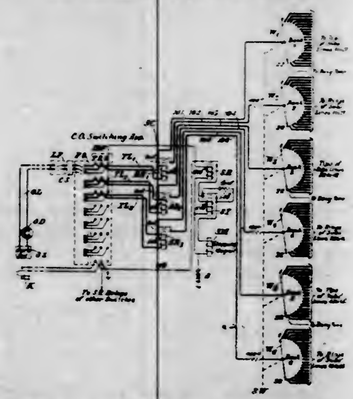
2,405,338
ACTUATOR
Calvin J. Werner, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 23, 1944, Serial No. 536,913
1 Claim. (Cl. 74—291)

A unitary load supporting and moving device comprising a main housing and a secondary housing supported on the main housing; of a shaft journalled in the wall of the main housing and having a worm gear the teeth of which extend into the main housing; a sub-assembly insertable as such into the main housing, said sub-assembly comprising an outer shell, bearings in said shell rotatably supporting two internally toothed ring-

gears, one of which has outer, peripheral teeth engaged by the teeth of the worm gear, the other ring gear having a screw shaft attached thereto upon which a load supporting and moving nut is threadedly mounted, a stub shaft, one end of which is journalled in the screw shaft, the other end being journalled in the main housing, said stub shaft having an eccentric, intermediate portion upon which a unitary, double epicyclic gear is journalled, said gear engaging and interconnecting the two ring gears; a collar secured to the main housing and holding the sub-assembly in the main housing; a friction ring secured in the main housing; an armature disc slidably keyed to the stub shaft and normally urged into braking engagement with the friction ring; a stator in the secondary housing, an armature having a shaft journalled in the secondary housing and having a driving disc secured to the shaft of the armature; and a magnet coil in the secondary housing about the driving disc.



2,405,339
EQUIPMENT FOR OBSERVING DIAL TONE SPEED
Milton Powell Willis, Dallas, Tex., assignor to American Telephone and Telegraph Company, a corporation of New York
Application June 6, 1944, Serial No. 539,019
12 Claims. (Cl. 179—175.2)

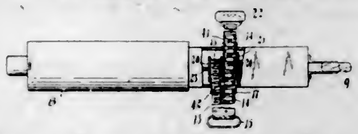


1. A system for observing the time between the initiation of a call over a telephone line and the appearance of a dial tone, said system including a step by step switch to the contacts of which lines to be tested are connected, a trunk leading to said switch, means including final selectors for selecting for communication purposes any desired line in response to the dialed number assigned to said line and for selecting said trunk and connecting an operator's observing set thereto in response to a dialed number assigned to said trunk, means whereby said trunk when selected is conditioned to simulate the initiation of a call, and means controlled by the operator to send a single pulse over said trunk to step said switch from line to line to successively initiate simulated calls over said lines without changing the setting of any final selector, whereby the time requirement for the dial tone to appear may be observed for each line connected to said step-by-step switch.

2,405,340
MANUFACTURE OF TETRYL
George Washington Batchelder, Mantua, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1943, Serial No. 503,839
12 Claims. (Cl. 260—577)

1. A process of producing tetryl which comprises passing a mixed acid, including sulfuric and nitric acids, into a nitration apparatus; introducing a solution of dimethylaniline in sulfuric acid into said nitrator, the ratio of nitric acid to dimethylaniline being at least 7 to 1; agitating the charge throughout the nitration process; maintaining the nitration temperature between 150° and 180° F. during said process until at least two-thirds of said dimethylaniline solution has been added; and thereafter recovering the tetryl.

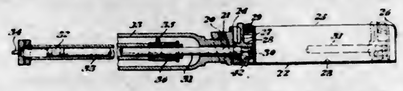
2,405,341
TOY GUN
Squire Binks, Toronto, Ontario, Canada
Application March 15, 1945, Serial No. 582,898
5 Claims. (Cl. 46—192)



1. In a toy gun, a casing forming a firing chamber provided with side openings, a reel therein, a spring motor having a shaft connected to its spring, said shaft being secured to the reel for turning it, an escapement geared to the shaft to regulate the speed of operation, a ratchet device for preventing retrograde action in the winding of the spring, a yieldable detent device normally precluding operation of the spring motor, a trigger for disengaging the detent to set the motor in operation, and a belt having rounds of ammunition represented thereon, said belt having a connection with said reel whereby it is transported through said side openings from one side to the other of said chamber to represent the feeding of ammunition.

2,405,342
CHARGING MACHINE
Edgar E. Brosius, Pittsburgh, Pa.
Application June 23, 1944, Serial No. 541,842
3 Claims. (Cl. 214—29)

2. A charging machine comprising a support, a box detachably carried by the support, a pusher extending within the box for pushing out the contents of the box, means carried by the support and adapted to extend within the box and to bear against the pusher to operate the pusher in box emptying movements, the operating means having a recess therein and being withdrawable from within the box when the box is to be detached from the support, a double-armed latch pivoted to the pusher and one arm of which engages a portion of the box when the pusher is advanced to position the other arm in the recess

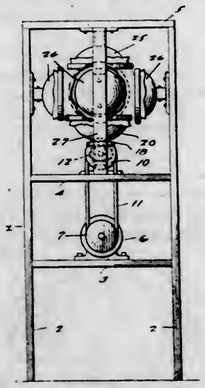


of the operating means whereby to connect the pusher and operating means to cause them to move together as a unit and means engaging the first mentioned arm of the latch when the pusher is fully withdrawn to turn the latch about its pivot and withdraw the second mentioned arm of the latch from the recess in the operating means to allow the operating means to be withdrawn from within the box to permit the box to be detached from the support.

2,405,343
RUBBER HYDROCHLORIDE COMPOSITIONS
James P. Chittum and George E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 17, 1939, Serial No. 305,006
6 Claims. (Cl. 260—771)

1. A rubber hydrochloride composition containa small amount of the reaction product of an aliphatic aldehyde and an ethylene polyamine, said small amount being sufficient to stabilize the rubber hydrochloride.

2,405,344
BOWLING BALL POLISHER
Leo Cloutier, Fall River, Mass.
Application May 15, 1945, Serial No. 593,813
5 Claims. (Cl. 51—56)



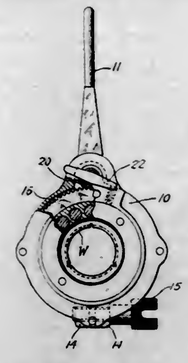
1. A polishing device for a spherical article comprising a bowl-shaped supporting member for said article provided with a flexible abrasive supporting surface for supporting the article within said bowl-shaped member, means for simultaneously rotating and vertically reciprocating said bowl-shaped supporting member to thereby impart a random motion to said article, and stationary flexible abrasive members defining an inclosure within which the article is retained and adapted to be frictionally contacted by the article during its motion.

2,405,345
MANUFACTURE OF EXPANDED THERMOPLASTIC RESINOUS COMPOSITIONS
Alfred Cooper and Douglas Edwin Partington, Croydon, England, assignors to Expanded Rubber Company Limited, Croydon, England
Application December 30, 1944, Serial No. 570,789
In Great Britain January 10, 1944
2 Claims. (Cl. 18—48)



1. A process for re-pressing or shaping of cellular thermoplastic sheets produced by expansion of gas impregnated thermoplastic material which comprises placing the said sheets between the platens of a press provided with rigid distance pieces to arrest the movement of the ram when the desired thickness is attained and heating to a temperature sufficient to soften the said thermoplastic enough to allow of further expansion, the edges of the said sheet being free to expand and flow further, interrupting the operation by releasing the pressure and finally re-applying the pressure and cooling before removal from the press.

2,405,346
WORK HOLDER FOR GAUGE LAPPING MACHINES
Alden M. Drake, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application July 20, 1942, Serial No. 451,563
4 Claims. (Cl. 51—217)



1. A holder for work pieces on the lapping spindle of a lapping machine comprising in combination, a body member, a member mounted for rotation therein, work clamping means on said rotatable member, an actuating arm extending from said body member whereby said holder may be oscillated during rotation of the lapping spindle, gear means to rotatably adjust said rotatable member relative to said body member, and means housed within said body member and frictionally engaging said rotatable member to retain said rotatable member in successive adjusted positions, whereby a work piece secured to said rotatable member may be mounted for free adjustment on said spindle and manually advanced therealong.

2,405,347

CONVERSION OF DI-β-ALKENYL ETHERS TO ALKADIENES AND ALKALI METAL ALKENYLATES

Henry Dreyfus, Frank Bryans, and James Gordon Napier Drewitt, London, England; Claude Bonard administrator of said Henry Dreyfus, deceased

No Drawing. Application February 21, 1945, Serial No. 579,156. In Great Britain December 1, 1943

7 Claims. (Cl. 260—681)

1. Process for the production of an alkadiene comprising reacting a di-β-alkenyl ether with an alkali metal whereby an alkadiene and an alkali metal alkenylate are produced.

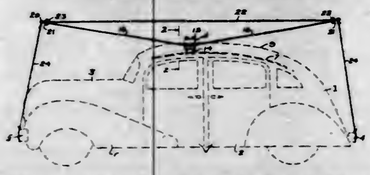
2,405,348

AUTOMOBILE SUNSHADE

Alexis C. Engelheart, Houston, Tex.

Application April 5, 1945, Serial No. 586,737

1 Claim. (Cl. 296—137)



A cover for vehicles, comprising a sheet of material, broad hemmed ends on said sheet, a bar angular in cross section, extending through the hemmed ends of the sheet, a center bar extending across and supported by and contoured on the undersurface thereof to fit the top of the vehicle, rods having eyes at both ends thereof, the eyes on one end of the rods engaging the ends of the end bars at an angle thereto, hook bolts mounted in the ends of said center bar, the hooks engaged under the gutters of the top of the vehicle, the eyes at the opposite ends of the rods attached to the hook bolts in the center bar to mount the end bars and the cover sheet over the top of the vehicle, slots in the ends of said bar to seat the eyes of said rods at their connection with said hook bolts and cables connected with the vehicle at the front and back and connected with the rods at the eyes of the end bars.

2,405,349

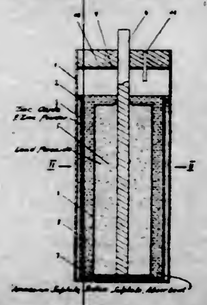
ACCUMULATOR

Walter Freund, Tel Aviv, Palestine

Application November 7, 1942, Serial No. 464,887

In Palestine November 18, 1941

1 Claim. (Cl. 136—6)



In a dry accumulator in combination, a cylindrical container made from a metal selected from the group consisting of zinc and cadmium; a rigid perforated cylindrical sleeve concentrically inserted in said container at a small distance therefrom; a mass containing mercury and a metal selected from the group aforesaid filled into the space between said container and sleeve; an electrically insulating disc inserted in, and forming a bottom seal of, the inner space of said sleeve, a lead rod axially disposed within said container, and a layer of lead peroxide moulded upon said rod; a liquid-permeable wrapper containing said layer and being disposed concentrically within said sleeve in spaced relation thereto; and an absorbent mass soaked with a neutral aqueous solution of neutral ammonium sulfate and neutral sodium sulfate filled into the space between said sleeve and wrapper.

2,405,350

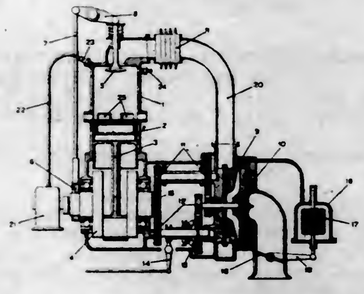
TWO-STROKE ENGINE

Eugène Marius Gadoux, Cormeilles-en-Parisis, and Jacques Fouré, Paris, France

Application June 15, 1945, Serial No. 599,578

In France February 2, 1945

1 Claim. (Cl. 123—65)



In a two stroke engine, the provision of at least one valve in each cylinder, at least one compressor, means whereby said compressor is adapted to feed said cylinder with compressed air through said valve, speed increasing means wherethrough the engine drives the compressor in a permanent manner, an engine controlled cam controlling the opening of the valve, a further compressor for supercharging the cylinders through said valve, speed reducing means adapted to be driven by the engine for controlling said further compressor, and means whereby the last mentioned means are caused to be operative when desired.

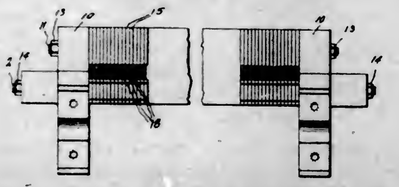
2,405,351

SINKER HEAD

Stanley Gagas, Perkasie, Pa.

Application February 16, 1945, Serial No. 578,180

3 Claims. (Cl. 66—110)



1. In a sinker head, in combination, a pair of end plates, rods extending between said end plates, and a plurality of divider and sinker supporting spacers mounted on said rods positioned between said end plates, each of said spacers being horizontally grooved to provide a transverse passage for said dividers and sinkers, and an aligning bar morticed in the upper edges of said spacers.

2,405,352

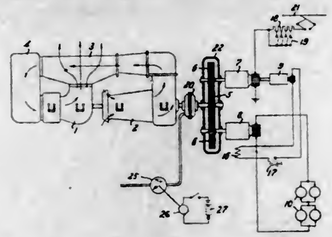
DUAL POWER THERMAL LOCOMOTIVE

Walter Giger, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland

Application February 26, 1944, Serial No. 524,107

In Switzerland February 26, 1943

3 Claims. (Cl. 290—3)



1. In a dual power electric locomotive, a thermal power plant, a pair of main direct current generators, gearing connecting said generators, and a hydraulic clutch for coupling said power plant to said gearing to drive said generators, whereby upon disengagement of the clutch one of said generators may be operated as a motor to drive the other generator through said gearing.

2,405,353

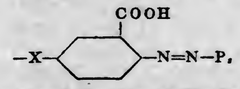
POLYAZO DYESTUFFS OF THE STILBENE SERIES AND PROCESS OF MAKING SAME

Walter Hanhart, Riehen, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland, a Swiss firm

No Drawing. Application July 27, 1943, Serial No. 496,348. In Switzerland August 1, 1942

10 Claims. (Cl. 260—143)

1. Polyazo dyestuffs of the stilbene series containing at least once the grouping



wherein Pz stands for the radical of a pyrazolone coupling component, and X stands for a member of the group consisting of azo- and azoxy groups and is directly attached to the benzoic acid grouping, the X-group being also directly attached to a stilbene radical.

2,405,354

CURTAIN SAVER

Verner J. Hansen and Jane W. Hansen, Arlington, Va.

Application October 11, 1944, Serial No. 558,188

13 Claims. (Cl. 160—349)



1. A holder for curtains and other drapery for windows comprising an arm, an aperture in the arm adjacent one extremity, a holding device utilizing said aperture upon which said arm is pivotally mounted, said holding device being attachable to a window frame and the arm being swingable to a vertical position substantially flush with a vertical exterior edge of the window frame, and detent means on said device to prevent the arm from being pivoted below the horizontal.

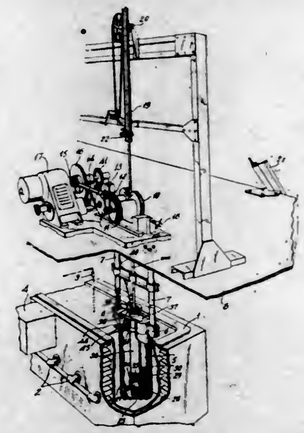
2,405,355

ROD-CASTING MACHINE AND METHOD

George Harrison, Berwyn, Ill., assignor to Doehler Die Casting Company, New York, N. Y., a corporation of New York

Application June 18, 1941, Serial No. 398,540

42 Claims. (Cl. 22—57.2)



42. A die-tube for continuous rod casting having a tube wall capable of thermal distortion and a rotary water jacket acting on the full length but not the full circumference of the transition zone in said tube, said jacket having a greater cooling action adjacent the solid end of the zone therein than at the liquid end thereof.

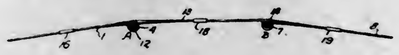
2,405,356

SPRING CONSTRUCTION

Leroy B. Jahn, Montevideo, Minn.

Application December 24, 1943, Serial No. 515,563

10 Claims. (Cl. 267—1)



1. A spring construction, comprising two lengths of spring wire, each wire being formed at each of spaced points to provide one spring coil of a concentric combined inner and outer coil-spring set, each wire being formed at one point with one size spring coil of one set and at the other point with another size spring coil of the other set.

2,405,357

FRICTION CLUTCH

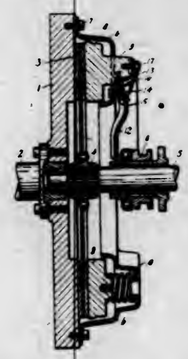
George T. Jarrett, Syracuse, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York

Application December 13, 1944, Serial No. 567,971

9 Claims. (Cl. 192—68)

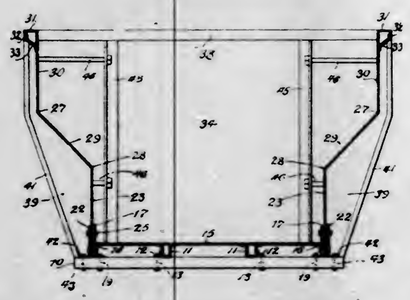
1. In a clutch, the combination with driving and driven members, a back plate having openings therein, a pressure ring rotatable with the driving member and having arms extending

through the openings in the back plate, spring means pressing the pressure ring against the driven member to engage the clutch, a throw-out collar operable to disengage the clutch against the spring means and levers for transmitting the motion of the throw-out collar to the pressure ring; of the back plate being formed with projecting fulcrums and the pressure ring with shoulders against which the levers thrust at their outer ends, the clutch levers being formed



with transverse notches intermediate of the side edges of the levers on the side thereof towards the back plate, for receiving the fulcrums and the end portions of the fulcrums bearing on the levers beyond the opposite ends of the notches, and spring means urging the levers toward the back plate to hold the levers on the fulcrums with the intermediate portions of the fulcrums in said notches, the spring means coacting with the levers eccentric to the fulcrums to also resist pivotal and vibrating movement of the levers.

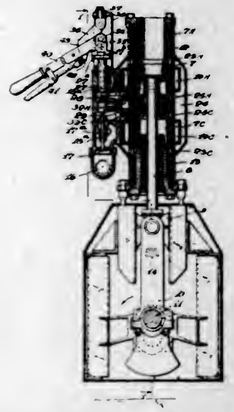
2,405,358
METAL WAGON BODY
William D. Johnson, Chicago, Ill.
Application June 6, 1945, Serial No. 597,788
7 Claims. (Cl. 296—15)



1. In a metal wagon body, the combination of a plurality of cross sills, a plurality of channel shaped longitudinally extending metal sills resting on said cross sills and bolted thereto, a sheet metal floor resting upon and welded to said channel shaped longitudinal sills, each side edge portion of said floor sheet being bent vertically up into inverted U shape with one of the webs of each U bend extending down to the cross sills and bent thereat into an inwardly extending flange bolted to the cross sills.

2,405,359
ELASTIC FLUID ENGINE
Samuel Lippincott Griswold Knox, New York, N. Y.
Application February 16, 1945, Serial No. 578,160
7 Claims. (Cl. 121—101)

1. In a reciprocating engine, a cylinder, a piston, the cylinder having steam supply and exhaust openings, a sleeve interposed between the piston and the cylinder, the sleeve having admission, supplementary exhaust and main uniflow exhaust ports opening to the cylinder supply and exhaust openings and to the cylinder space, the piston having end skirts provided with ports opening to the interior of the skirted ends there-



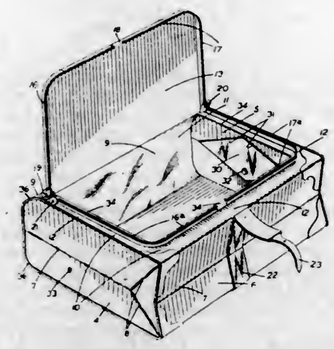
of, the sleeve and piston ports having a relationship such that the piston ports open and close the interior of the skirted ends of the piston to the steam supply and exhaust openings during motion of the piston in an elliptical path, and means responsive to the operation of the engine for imparting elliptical motion to the piston.

2,405,360
MECHANICAL MOVEMENT
Edward H. Korte, Brooklyn, N. Y.
Application February 7, 1945, Serial No. 576,585
7 Claims. (Cl. 46—1)



1. The combination of a body, a pair of prongs or pins extending from the lower face thereof to engage a supporting surface, said pins inclining rearwardly, and a pair of control means connected to the body removed from said pins to facilitate alternately exercising a pulling force on said control means in turn to cause the body to move from side to side.

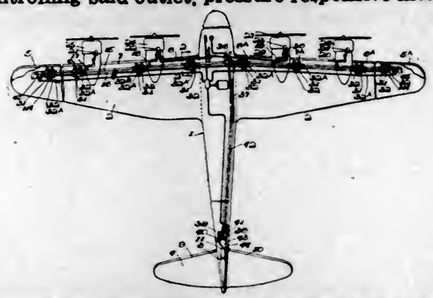
2,405,361
PORTABLE HOLDALL, CASE, AND BAG
Ernest Edward Langford and Arthur Thomas Garnett, London, England, assignors to A. J. Garnett Limited, London, England
Application September 9, 1944, Serial No. 553,310
In Great Britain March 22, 1944
1 Claim. (Cl. 190—43)



A rectangular handbag comprising, in combination, two stiffened side walls of relatively large size, a stiffened base wall and a flexible top wall integral with the side walls, the side, base and top walls formed of a single piece of material whose ends are affixed together along the longitudinal center line of the base wall, and two stiffened end walls, the base and end walls being creased longitudinally along their centers and adapted to fold inwardly, supporting means comprising a diamond-shaped panel of stiff material permanently fastened to the inner surface of each of said end walls along two adjacent edges, with the smaller apices of said panel coinciding with the longitudinal creases in said end wall, said panel being provided with means for temporarily fastening the free edges to said end wall when the wall is in a flat condition, the panel when said free edges are so fastened preventing the wall from folding inwardly, a flap cut out of one side wall along three of its sides and formed in continuity with the top wall, the flap comprising substantially all of said side wall and forming a narrow marginal lip along the end and base walls, slide fastener means arranged about the edges of said flap and lip, strap fastener means attached to and extending across the base and one side wall to a point adjacent the top wall, adapted to engage a like strap fastener means attached to and extending across the flap to a point adjacent the top wall, said strap fastener means relieving the slide fastener means from strain, the upper terminal ends, adjacent the top wall, of each of said strap fastener means engaging a handle, the handles, strap fastener means, flexible top wall and folding end and base walls cooperating to cause the flexible top of the handbag to peak and the side walls to bow inwardly when carried, thereby permitting the bag to be carried closer to the body.

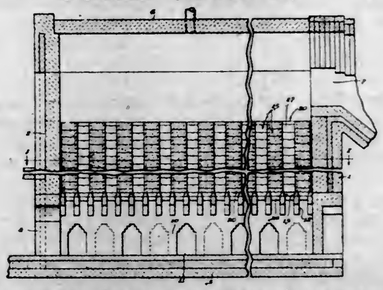
2,405,362
DEICER UNLOADING VALVE
Samuel K. Lehman, Brooklyn, N. Y., and Myron L. Taylor, Ridgewood, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application August 11, 1943, Serial No. 498,249
7 Claims. (Cl. 244—134)

1. In a de-icer system for an aircraft, the combination, comprising, a plurality of inflatable units mounted along airfoil surfaces of said aircraft, a conduit for conducting a pressure medium to said units for inflating the units, said conduit having an outlet to atmosphere, a valve for controlling said outlet, pressure responsive means



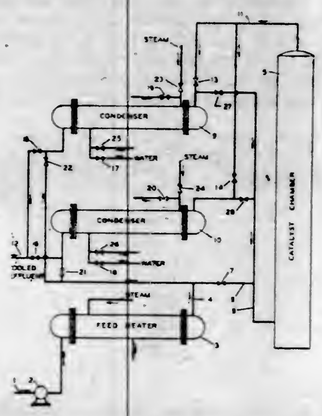
operated by said pressure medium in such a manner as to position said valve so as to close said outlet and a second valve means operable at will for controlling the pressure medium to said pressure responsive means.

2,405,363
CHECKER FOR OPEN-HEARTH REGENERATIVE FURNACES
Lewis B. Lindemuth, Port Washington, N. Y., assignor to Steel Ingot Production, Inc., New York, N. Y., a corporation of Delaware
Application March 29, 1944, Serial No. 528,524
3 Claims. (Cl. 263—51)



1. A checker for an open hearth regenerative furnace, comprising flat brick having lateral ribs at their ends laid in continuous vertical columns arranged in parallel vertical planes with said ribs extending vertically, the columns in each said plane having their adjacent ends spaced from each other and having said end ribs overlying and contacting with those of the columns lying in each adjacent plane to form a plurality of vertical smooth-wall flues extending continuously from the top to the bottom of the checker, arches below said columns extending at right angles to said vertical planes thereof, and blocks resting upon the tops of said arches and supporting the ribbed ends of said columns, said blocks having bases of the same width as the tops of said arches and having tops of the same widths as said ribs and having tapered sides between their bases and column-supporting top.

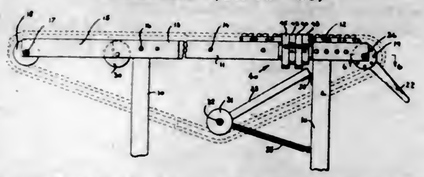
2,405,364
HYDROCARBON CONVERSION PROCESS AND APPARATUS
Howard R. Markley, Oklahoma City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 5, 1942, Serial No. 460,855
5 Claims. (Cl. 260—683.5)



1. A process for the vapor-phase isomerization of normal butane which comprises passing a vaporous feed comprising normal butane and anhydrous hydrogen chloride through an elongated reaction zone containing a body of anhydrous aluminum chloride catalyst under conditions effecting substantial formation of isobutane and concomitant sublimation of minor amounts of aluminum chloride from said catalyst into the vaporous reaction mixture, flowing vaporous reaction effluent to a separation zone in a restricted stream under such conditions that flow would eventually be stopped by clogging of the restricted path of flow by deposition of sublimed aluminum chloride from said effluent, periodically passing said effluent through an alternative path of flow thereby isolating the deposited aluminum chloride in said first-named restricted path of flow from contact with said effluent, passing through said isolated first-named restricted path of flow in a reverse direction and on to the inlet of said reaction zone a minor portion of vaporous feed comprising normal butane under conditions effecting sublimation of deposited aluminum chloride and consequent freeing of said restricted path of flow from clogging material, returning said effluent to its thus-cleansed former path of flow, and continuing during the entire series of steps a continuous flow of the major portion of said vaporous feed comprising normal butane and hydrogen chloride without interruption of continuity and without change in direction of flow into and through said reaction zone.

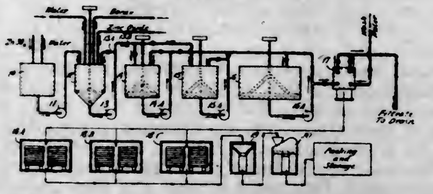
4. Apparatus for treatment of vapors which comprises a treating chamber containing a volatilizable treating agent, a vaporizer, a conduit for flowing vapors from said vaporizer to one end of said treating chamber, a conduit for flowing treated vapors from the opposite end of said treating chamber into either of two condensers, a conduit for flowing resulting condensate from either of said condensers, a branch conduit leading from said first-named vapor conduit for flowing vapors to either of said condensers, a conduit for flowing these vapors from said condensers back into said first-named conduit at a point therein subsequent to said branch conduit, means for supplying cooling water to either of said condensers, and means for supplying steam to either of said condensers.

2,405,365
POWER CHAIN SAW FRAME AND JOINTING BLOCK THEREFOR
Arthur B. Myers, Butte Falls, Oreg.
Application March 20, 1945, Serial No. 583,723
2 Claims. (Cl. 76—46)



1. A device of the character described comprising a guide adapted to support a chain saw including spaced parallel interconnected frame members, a jointing block associated therewith including a base plate, spaced pairs of oppositely disposed side plates secured to said base plate, means for adjusting said base plate and spaced pairs of side plates with respect to said frame members to align the saw cutting teeth, means between said side plates and said frame members for locking the same in adjusted position, a pair of spaced base plates disposed below said first mentioned base plate, spaced pairs of oppositely disposed side plates secured to said spaced base plate, independent means extending through said spaced base plates and said first mentioned base plate for adjusting said base plates and attached side plates with respect to said frame members to secure the proper jointing of the saw raker teeth.

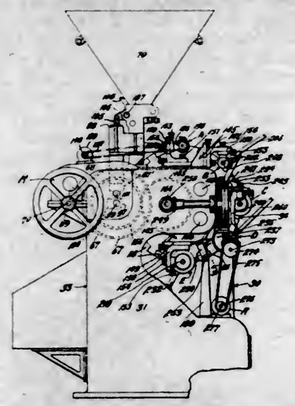
2,405,366
MANUFACTURE OF ZINC BORATE
Arne J. Myhren and Earl W. Nelson, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application October 12, 1943, Serial No. 505,954
4 Claims. (Cl. 23—59)



1. The process for producing a zinc borate of the composition $2ZnO.3B_2O_3.7H_2O$ which comprises mixing borax and zinc sulfate in solution and precipitating zinc borate in the presence of sufficient additional zinc compound from the group consisting of zinc oxide and zinc hydroxide to provide a ratio of zinc to boron of 1:3.

2,405,367
PENCIL MACHINE
Charles R. Nichols, Jr., Jersey City, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application February 6, 1943, Serial No. 475,645
13 Claims. (Cl. 144—3)

1. In a machine of the character described, a carrier, means on the carrier for supporting and securing pencils in spaced relation with their ends overlapping one side of the carrier, operative means disposed at said side of the carrier and movable toward the carrier and operable in timed relation to the carrier operations for performing successive operations on the pencils, and means for intermittently moving the carrier to



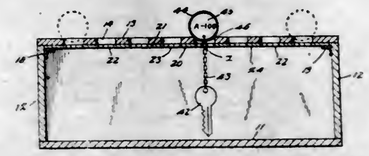
position said pencils at successive stations where said operations are to be performed, said intermittent moving means comprising means for moving the carrier through increments of movement and subsequent acting means for adjusting the carrier to insure the alinement of the pencils with said operative means.

2,405,368
CONVERTIBLE MIDRIFF DRESS
Theodore Oresman, St. Louis, Mo.
Application May 22, 1944, Serial No. 536,769
1 Claim. (Cl. 2—74)



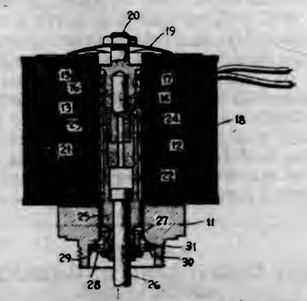
A convertible midriff dress ensemble, of the type shown and described, having a relatively narrow body encircling waistband, a companion bodice in the form of a waist, said waist having a relatively narrow body encircling waistband with separable overlapping free end portions, said free end portions being separably buttoned, and a pair of longitudinally spaced buttons exteriorly on the rear portion of said waistband to accommodate button holes in an associated detachable belt, said respective waistbands, when the dress ensemble is in use, being spaced apart to expose the midriff anatomy of the wearer therebetween, and a relatively wide belt of predetermined ornamentality and shape adapted to completely cover and conceal that part of the anatomy between said waistbands, said belt being a wholly optional and independently separate part, having separable fasteners between its coacting free ends, and being of a width to overlap and conceal both of said waistbands, and being further provided on a central rear portion with button holes adapted to fasten on the aforementioned buttons carried by the rear central portion of the waistbands of said bodice.

2,405,369
SAFETY KEY CABINET
Charles I. Poulsen and Henry F. Rose, Akron, Ohio
Application May 26, 1945, Serial No. 595,956
1 Claim. (Cl. 312—189)



A cabinet for holding keys with attached chains and identification disks comprising a receptacle having four interconnected sides, a bottom and a top, said top being formed with apertures having T-shaped extensions through which keys may be dropped, guide rails on the inner walls of the opposite side of said receptacle, a locking plate formed with identical shaped apertures to those in said top adapted to slide on said guide rails, a closure member hinged to the front side of said receptacle, springs secured between said closure and said plate, and a push member attached to said plate adapted to extend beyond the lateral limits of said receptacle when the closure is open to align said apertures and to be engaged by said closure member to push said plate into its innermost position as the closure is closed to disalign said apertures thereby locking the keys in said receptacle.

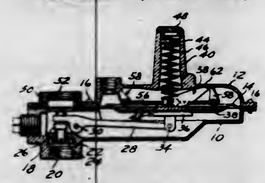
2,405,370
SOLENOID OPERATOR
William R. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation
Application January 1, 1945, Serial No. 570,972
5 Claims. (Cl. 175—341)



1. In a solenoid: a base member, a sleeve mounted at one of its ends in an opening through said base member, an elongated plunger freely reciprocable in said sleeve, an energizing coil around the sleeve for attracting the plunger thereinto, stop means of magnetizable material on the sleeve and engageable by the inner end of the plunger when said coil is energized, and means for ensuring release of the plunger from

the stop means when the coil is deenergized comprising a plurality of fingers extending laterally from an outer portion of the plunger and yieldably engageable with the base member at a side thereof away from the sleeve, said fingers being so constructed and arranged that the operative force of at least one of the fingers is different to that of another.

2,405,371
VIBRATION ELIMINATOR FOR PRESSURE REGULATORS
Anton Sabnonsen, Great Kills, Staten Island, N. Y.
Application May 27, 1944, Serial No. 537,688
4 Claims. (Cl. 50—26)



4. In a fluid pressure regulator, the combination of a housing having a fluid inlet and a fluid outlet, a flow controlling valve, a pressure responsive diaphragm in said housing and operatively connected to said valve, a member located centrally of the diaphragm, spring means for forcing said member toward the diaphragm, radial stems rigidly carried by said member, and eccentric members rotatably mounted on the outer ends of said stems and engaging the diaphragm and said housing.

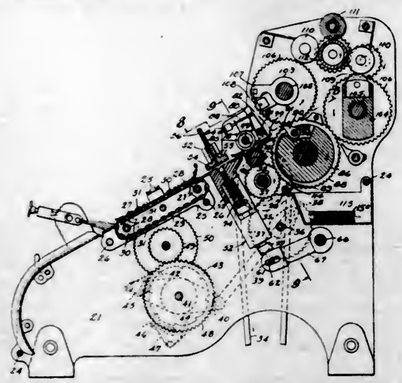
2,405,372
SELF-CLEANING COMB AND CASE THEREFOR
Joseph Schier, Binghamton, N. Y.
Application April 24, 1945, Serial No. 589,969
6 Claims. (Cl. 132—30)



4. A comb and case structure comprising a pair of wall members, a comb adapted to be received between said wall members to form a comb-protecting assembly, a rivet member pivotally connecting the wall members and the comb adjacent one end of the assembly, detachable securing means fastening the wall members together adjacent the other end of the assembly, the inner surfaces of the wall members being respectively provided with longitudinal rows of bristle members, the rows of one wall member being staggered with respect to the rows of the other wall member.

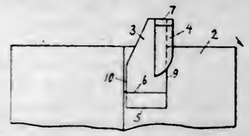
2,405,373
SHEET DELIVERING AND PRINTING MECHANISM
Harry E. Seeley, Niagara Falls, N. Y., assignor to Moore Business Forms, Inc., a corporation of Delaware
Original application May 21, 1940, Serial No. 336,413. Divided and this application December 9, 1942, Serial No. 468,387
2 Claims. (Cl. 101—228)

1. In a machine of the character described, in combination, a continuously rotating impression cylinder for carrying separate units or slips to be printed, a unit gripper for said units mounted on said cylinder so as to move continuously therewith and being movable thereon into unit gripping and releasing positions, intermittent unit delivery means for delivering said separate units to said cylinder and to said unit gripper thereof, said delivery means including an intermittent unit holding device and a continuously operating friction feeding device spaced between said unit holding device and said unit gripper when the latter is in position for receiving a unit, said friction feeding device yieldingly engaging said separate units so as to continuously urge them forwardly and to feed them forwardly toward said unit gripper when they are released by said unit holding device but to slide idly thereon when



they are held by said holding device, said friction feeding device being positioned and arranged with reference to said unit gripper on said impression cylinder to feed the separate units forwardly into engagement with the gripper during its said continuous movement with said cylinder, means for intermittently releasing said unit holding device to release the units one at a time, and means for intermittently setting said unit gripper in unit gripping position on said impression cylinder in timed relation with release of said unit holding device and during the time that each separate unit is being fed forwardly by said friction feeding device into position to be gripped by said unit gripper, in which position each separate unit is gripped by the gripper and held on the cylinder for receiving the impression.

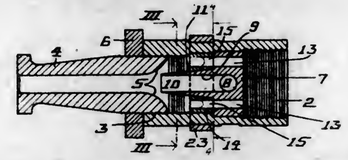
2,405,374
BOOKMARK
Francis L. Singer, Jr., Peekskill, N. Y.
Application August 26, 1944, Serial No. 551,391
6 Claims. (Cl. 281—42)



1. A book marker comprising a leaf having a folding line and two parts turnable relatively to each other around said folding line, and a resiliently bendable flap having a part permanently and closely affixed to a part of the surface of said leaf and having another part extending in the direction to said folding line and forming a continuously resilient continuation of said affixed

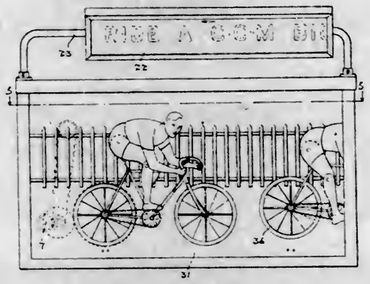
part without any foldably weakening lines whereby said flap, in unbent condition, is positioned parallel to said leaf and, in bent condition, tends to return into said parallel position, said folding line being located beyond the free end of said flap.

2,405,375
LIQUID DELIVERY APPARATUS
Frank Smith, Huddersfield, England
Application November 3, 1942, Serial No. 464,375
In Great Britain November 25, 1941
2 Claims. (Cl. 261—116)



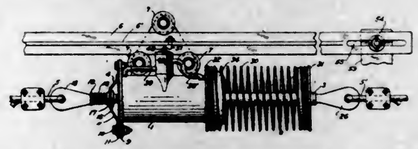
1. A liquid delivery apparatus comprising a tubular body adapted to be connected to a source of liquid supply, an outlet nozzle connected to one end of said body, a stationary member in said body, said member having air passages and liquid passages therein, said air passage terminating in a centrally disposed discharge passage and a rotor having a straight opening and communicating side openings, and means for operating the rotor for selectively moving said openings into registration with the liquid supply passages so as to control the flow of the liquid from the nozzle.

2,405,376
ADVERTISING DISPLAY DEVICE
William Stubbins, Toronto, Ontario, Canada, assignor to Daniel P. J. Kelly, Toronto, Ontario, Canada
Application September 23, 1942, Serial No. 459,455
In Canada September 23, 1941
2 Claims. (Cl. 40—32)



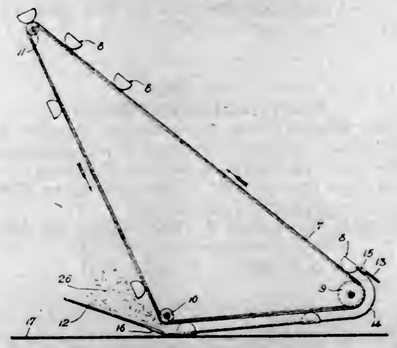
1. A display device, comprising a casing having a rigid vertical panel dividing the interior thereof, an insulated light chamber mounted on one side of said vertical panel adjacent to the top of the casing, a lamp socket mounted on said panel supporting a lamp within said insulated chamber, an endless perforated message-bearing band extending horizontally over the open top of said insulated chamber, a roller mounted at one end of said insulated chamber and supporting said band, a motor mounted on said panel and operatively connected with said roller and having its shaft extending through said panel, and mechanically operated display means arranged on the opposite side of said panel and operatively connected with the extending end of said band-operating motor shaft.

2,405,377
CABLE TENSION REGULATOR
John Sturgess and John W. Cade, La Canada, and Christian W. Savitz, Norwalk, Calif., assignors to Sturgess, Inc., Glendale, Calif., a corporation of California
Application August 2, 1943, Serial No. 497,028
16 Claims. (Cl. 74—501)



1. In a control cable tension regulator of the type adapted to be interposed in a run of control cable with the ends of the cable secured thereto so as to form a link in said run and said regulator including tensioning means for maintaining a tension on said cable: the improvement which comprises locking means for locking out said tensioning means whereby the cable pull is rendered direct through said regulator and means extraneous to and movable with respect to said regulator adapted to lock and unlock said locking means as the regulator moves bodily with the control cable.

2,405,378
CONVEYER STRUCTURE
Frank E. Thomas, Chicago, Ill.
Application August 7, 1943, Serial No. 497,819
7 Claims. (Cl. 198—140)

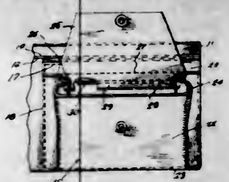


1. In a device of the character described, bucket means comprising, body means of substantially semi-cylindrical configuration, and end means of substantially semi-circular configuration secured to the said body means, the said end means provided with flared outward edges extending above the top edges of said body means, and roller means secured articulately to the said end means, the outer periphery thereof being parallel to and above the top of said body means.

2,405,379
SECRET POCKET BILLFOLD
Harry I. Thomas, Hagerstown, Md., assignor to Hagerstown Leather Company, Hagerstown, Md., a corporation of Maryland
Application January 16, 1945, Serial No. 573,031
2 Claims. (Cl. 150—35)

1. In a pocket receptacle such as a billfold and the like, means forming a pocket having a flap cover, a back wall and a front wall, the back wall being secured throughout its perimeter to

a wall of the adjacent receptacle, said flap being secured to said back wall to fold down over the top edge of the front wall, the said back wall having a slot cut therethrough below the top edge of said front wall to give access to the space be-



tween said back wall and the wall of the receptacle to which the back wall is secured, and a flexible member lying within the pocket and secured along a line lying above the slot to the back wall of the pocket and normally covering said slot.

2,405,380
CONJUGATED FATTY POLYENE COMPOUNDS
Amos Turk, Mount Lebanon, Pa., and Paul D. Boone, Washington, D. C.
No Drawing. Application October 9, 1944, Serial No. 557,930
10 Claims. (Cl. 260—405.6)

1. In the process of producing conjugation, the step of heating a liquid containing a non-conjugated polyene compound which has an acyl nucleus of at least 12 carbon atoms, with a solid magnesium silicate at a temperature not below substantially 200° C. until the resulting liquid has a conjugation of at least substantially 15% above the initial liquid, calculated on the basis of the increase of refractive index.

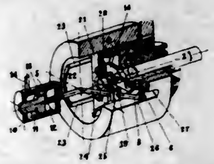
2,405,381
WRITING INSTRUMENT
Gerardo Hendrik van Spankeren, Buenos Aires, Argentina, assignor, by mesne assignments, to "Eterpen" Sociedad Anonima Financiera, also known as Eterpen, S. A., Buenos Aires, Argentina, a company of Argentina
Application November 4, 1943, Serial No. 508,977
In Argentina April 26, 1943
10 Claims. (Cl. 120—42)



1. In a fountain pen, a hollow body constituting a reservoir for dense ink and having an air intake orifice therein, a writing ball freely rotatable in one end of said body and supplied with ink from said reservoir, and a conduit having one end located substantially at the axial and transverse center of the reservoir and having its other end communicating with said orifice.

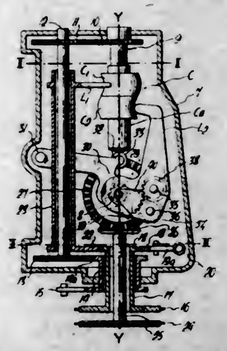
2,405,382
ACCELEROMETER
Edouard Valet, Vevey, Switzerland
Original application February 24, 1943, Serial No. 476,985, now Patent No. 2,358,894, dated September 26, 1944. Divided and this application June 28, 1943, Serial No. 492,620. In Switzerland February 5, 1942
2 Claims. (Cl. 264—6)

1. An accelerometer for maintaining constant speed of an operating machine, comprising, in combination, a driven shaft, a sleeve fixed to said shaft to rotate therewith, said sleeve having a pair of longitudinal slots extending parallel to the axis of rotation of the sleeve and also having a cam slot extending obliquely to said axis, an annular inertia mass arranged co-axially with the shaft and having an aperture; a twistable resilient spindle arranged co-axially with the shaft, sleeve, and annular inertia mass; means for connecting one end of the spindle rigidly to the sleeve, a yoke member rigidly connected to the other end of the spindle and having its outer end portions engaged in said longitudinal slots of the sleeve, and twist responsive means for modifying the speed of rotation of said shaft through the relative differential movement between the inertia



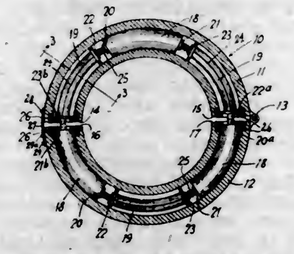
member and the sleeve, said means including a fluid cylinder disposed co-axially with the shaft and spindle, a ported piston in said cylinder dividing the same into opposite chambers, a cranked hollow pipe element connected at one end with the piston and communicating with one of the chambers of the fluid cylinder and having its other end terminating in a port disposed in said aperture of the inertia member, and means carried by the pipe element and slidable in the cam slot of the sleeve whereby relative movement between the sleeve and inertia mass will move the port of the pipe element into and out of engagement with a wall of the said aperture in the annular member.

2,405,383
MEANS FOR AIMING GUNS MOUNTED IN AIRCRAFT
Lawrence James Wackett, Brighton, Victoria, Australia
Application October 13, 1941, Serial No. 414,886
In Australia October 30, 1940
7 Claims. (Cl. 33—49)



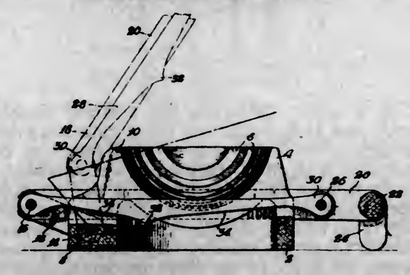
1. A device for correcting the angular relation between a gun flexibly mounted on an aircraft and a sight therefor, a casing angularly movable in train, a shaft pivoted in said casing for turning about a horizontal axis, said sight being fixed to move in elevation with said shaft, means connecting said casing and gun for synchronous movement in train, means connecting said shaft and gun for synchronous movement in elevation, a cam pivoted in said casing, means mounting said cam for axial sliding movement, means maintaining said cam rotationally fixed relatively to the craft as the casing is trained, means sliding said cam axially as the sight is elevated, feelers engaging different portions of said cam and movable with the casing in train, connections operable by one feeler for superposing movements thereof on said train connecting means and connections operated by a second feeler for superposing movements thereof into said elevation connecting means.

2,405,384
ILLUMINATING ANKLE BRACELET AND THE LIKE
Albert W. White, New York, N. Y.
Application November 9, 1944, Serial No. 562,606
2 Claims. (Cl. 240—6.4)



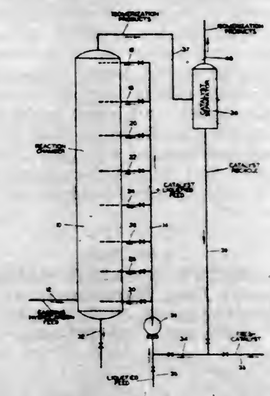
1. An illuminating device, adapted to be placed on and around portions of the body of a person or a dummy, comprising a ring shaped member of opaque material, self contained and self operating illuminating means enclosed in said member, a portion of said member being made transparent and permitting the escape of light rays generally in parallelism with the axis of said ring shaped member, so as to longitudinally illuminate the portion of the person or the dummy which is encircled by said ring member, said ring comprising two halves pivoted to one another, and means to releasably close the ring on a portion of the body of a person or a dummy, said illuminating means comprising electrical batteries and tubular light elements, having insulated electro conductive pole members at their ends, and being arranged in a predetermined successive chain, resilient electro conductive means between each adjacent pair of elements in said chain, and limiting means to prevent the escape of the elements at the ends of the half rings.

2,405,385
SLICING APPARATUS
Jack E. Wingate, Norfolk, Va.
Application September 14, 1943, Serial No. 502,353
1 Claim. (Cl. 146—147)



In a device of the type described, a generally flat base having front and rear portion, an open-topped cup-shaped receptacle affixed on said base intermediate said portions, the front and rear walls of said receptacle having a plurality of substantially parallel, open-topped slots therein, said base having slots running from front to rear and registering with those in the receptacle, a generally rectangular frame larger than the receptacle and comprising longitudinal members and cross members, a pair of links pivotally mounting the rear end of said longitudinal members to the rear portion of said base, a plurality of substantially parallel, vertically disposed blades having their ends affixed on said cross members and having sharp lower edges, the edges of said blades adjacent the ends thereof being substantially straight but merging substantially at their midpoints to a downwardly directed point, the rear wall of said receptacle being extended downwardly and rearwardly to said base so that the slots therein form elongated guideways for said blades during all necessary positions in the working stroke thereof.

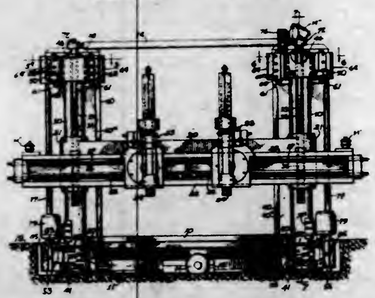
2,405,386
ISOMERIZATION OF SATURATED HYDROCARBONS
I. Louis Wolk, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 5, 1942, Serial No. 460,831
2 Claims. (Cl. 260—683.5)



1. A process for the isomerization of normal butane to isobutane which comprises passing upwardly through an elongated vertical reactor a gaseous mixture of normal butane with catalyst-activating amounts of hydrogen chloride having suspended therein finely divided solid aluminum chloride catalyst which is carried along with the gas stream, maintaining in said reactor isomerizing conditions of temperature and pressure, removing from the top of said reactor the resulting gaseous reaction mixture comprising isobutane so produced, passing said reaction mixture to a separating zone wherein suspended finely divided solid active aluminum chloride catalyst settles by gravity from the gaseous material, passing thus-settled aluminum chloride catalyst particles together with fresh finely divided solid aluminum chloride to admixture with liquid normal butane in such quantities as to prepare a slurry of finely divided solid aluminum chloride in liquid normal butane, introducing said slurry into said reactor at a plurality of points spaced along the length thereof for evaporation of said liquid normal butane and suspension of said aluminum chloride in said upwardly flowing gases, in such quantities

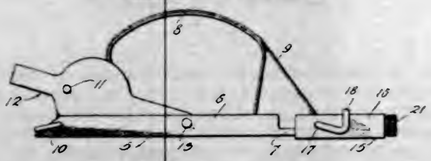
at each point as to maintain a substantially constant temperature throughout said reaction zone and as to maintain an increasing concentration of active solid aluminum chloride catalyst in the direction of flow sufficient to maintain a substantially constant rate of conversion throughout said reactor.

2,405,387
MACHINE TOOL
Lucien I. Yeomans and De Witt Clausen, Chicago, Ill., assignors to Lucien I. Yeomans, Inc., Chicago, Ill., a corporation of Illinois
Application April 23, 1943, Serial No. 484,176
6 Claims. (Cl. 90—37)



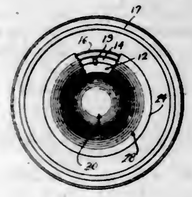
1. A machine tool having, in combination, upright columns of concrete or the like, similarly constructed face plates grouted to said columns at the upper and lower ends thereof, a pair of vertical parallel guide posts disposed in front of said columns, similarly constructed brackets enclosing the upper and lower ends of posts and abutting against the faces of said plates, means clamping the brackets of one post rigidly against its face plates, and means clamping the brackets of the other post slidably against its face plates.

2,405,388
CIGARETTE ROLLING MACHINE
George Zlat, Wapakoneta, Ohio
Application August 30, 1944, Serial No. 551,873
4 Claims. (Cl. 131—52)



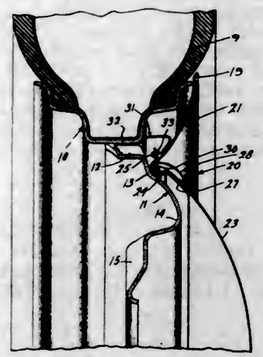
1. A cigarette rolling machine comprising a base, a belt longitudinally overlying said base, means anchoring one end of said belt to one end of said base, means on said base and cooperable with said belt in forming a portion of the latter into a tobacco-receiving pocket, said means including means for operating said belt to roll the tobacco placed in said pocket, a plate slidably underlying the other end of said base, said plate having two upstanding projections slidably engaging the longitudinal edges of said base, a transverse pin to which the other end of said belt is anchored, said pin being carried by said upstanding projections and slidably overlying said other end of said base, and manually operable adjusting means connecting said plate with said other end of said base for longitudinally adjusting said plate and said other end of said belt to vary the size of said pocket.

2,405,389
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application April 10, 1944, Serial No. 530,352
9 Claims. (Cl. 301—37)



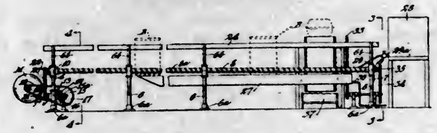
1. In a cover assembly for disposition over the outer side of a wheel structure, a radially outer annular part and a central circular hub cap simulating part formed concentrically relative thereto with the radially outer margin thereof disposed in surface engagement with the radially inner margin of said annular part, retaining means for maintaining said cover parts together with the adjacent margins in said surface engagement and for reinforcing an intermediate part of the cover, said retaining means including a portion formed to envelop the free ends of said margins of the cover parts to provide a snap-on bead and to maintain said margins together and also including a radially outwardly extending portion formed to receive the point of a pry-off tool, whereby said bead may be moved axially outwardly relative to a wheel over which the cover is disposed.

2,405,390
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application May 12, 1945, Serial No. 593,468
8 Claims. (Cl. 301—37)



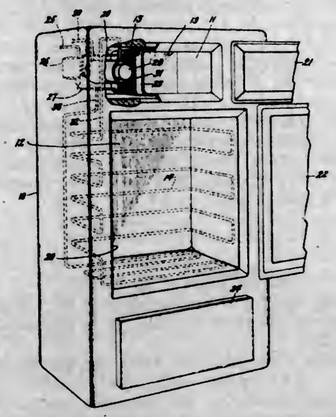
1. In a cover structure for a wheel including tire rim and body parts and cover retaining means attached to at least one of said parts, a cover comprising a circular member of non-metallic resiliently pliable material having a dished portion formed to provide an annular shoulder extending axially rearwardly of the cover and cooperable with said retaining means, said shoulder being reinforced on both of its sides by metal rings for maintaining the contour of said shoulder and for resisting deformation of same by said retaining means.

2,405,391
BAG WAXING MACHINE
Edwin F. Anderson, Buffalo, N. Y., assignor to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware
Application April 22, 1943, Serial No. 484,091
9 Claims. (Cl. 91—46)



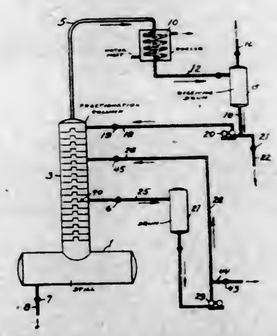
1. Apparatus for coating and sealing the secured and collapsed filling end of a filled paper bag or the like having in combination, a combination supporting and conveyor medium disposed substantially horizontally for receiving the closed and secured filling end of a filled bag, said medium having a central longitudinal slot extending throughout the greater part of its length for accommodating the projecting secured extremity of said bag and having opposed, cooperating elements adapted to only frictionally engage the opposite sides of the filled bags, and a trough mounted directly below said conveyor for containing coating material at a level to cover said projecting portion of the closed end of said bag and coat the same during a part of the travel of said bag on said conveyor, said conveyor extending for some distance beyond said trough to allow the coated portion of said bags to dry and means at one end of said conveyor for facilitating removal of the processed bags therefrom.

2,405,392
REFRIGERATING APPARATUS
Leonard W. Atchison, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 8, 1941, Serial No. 418,361
8 Claims. (Cl. 62—115)



1. Refrigerating apparatus comprising means for maintaining a first zone at a relatively low temperature and means for maintaining a second zone at a higher temperature, both said means being arranged to be connected for operation by the same condensing equipment, each of said means containing vaporizable refrigerant, the one of said means associated with said second zone having a portion thereof containing liquid refrigerant and a material which is substantially unvaporizable at the temperatures involved and miscible with the liquid refrigerant, the mixture having a higher boiling point than that of the refrigerant alone and thereby facilitating the operation of said apparatus to maintain a temperature differential between said zones, means for conducting substantially pure liquid refrigerant to said portion and means for removing vaporized refrigerant from said portion.

2,405,393
BATCH DISTILLATION
George T. Atkins, Jr., Highlands, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 23, 1941, Serial No. 424,165
3 Claims. (Cl. 196—72)



1. In the batch distillation of liquids containing a plurality of components, the improvement which comprises heating said liquid to form vapors, discharging said vapors into the bottom of a vertical fractionating tower, successively withdrawing a plurality of liquid components of different boiling ranges from a point in the lower part of said tower as the distillation proceeds, maintaining said withdrawn components separately and segregated in an accumulation zone and returning the segregated components to the tower in the order of their withdrawal therefrom at a point in the tower more elevated than their point of withdrawal and separated from the latter by interior fractionating structure whereby the amount of reflux normally employed and recycled to the top of the tower is substantially reduced.

2,405,394
COACH BODY
Dwight E. Austin, Kent, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Michigan
Application September 14, 1944, Serial No. 554,096
9 Claims. (Cl. 296—44)

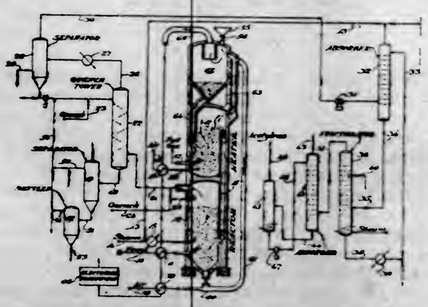
1. In combination, a sliding sash, a frame therefor, comprising inner and outer mating and juxtaposed sheet metal panels having window openings therein, with the marginal portions of said openings in both panels constituting attachment flanges welded together and presented substantially parallel to the general plane of the sliding sash, said welded together marginal portions in the lower part of the opening being inside the path of sliding sash and offset vertically from those in the upper part of the opening, and the lower and upper portions respectively providing guide retainers for interior and exterior faces of the sash, and separately formed sash guides

secured to said panels, one above and as a continuation of said lower marginal interior retainer



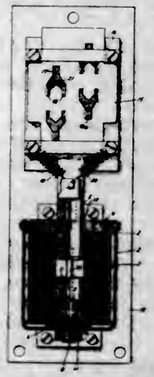
and the other below and as a continuation of the upper marginal exterior retainer.

2,405,395
ACETYLENE PROCESS
William H. Bahlke, Chicago, and Morris T. Carpenter, Flossmoor, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 31, 1943, Serial No. 496,904
6 Claims. (Cl. 260—679)



1. The process of making acetylene which comprises contacting hydrocarbons with fine granular solids maintained in turbulent dense phase suspension by passing the vapors of said hydrocarbons upwardly through a reaction zone in contact with said granular solids at a velocity sufficient to provide for hindered settling of said solids, maintaining the temperature of said reaction zone above 1800° F. by introducing into said reaction zone a stream of hot granular solids at a temperature substantially above the temperature of said reaction zone, withdrawing solids from said reaction zone at the temperature thereof and reheating them in a preheating zone by direct contact with combustion gases, maintaining the solids in said preheating zone in dense fluidized turbulent suspension by upflowing combustion gases, maintaining an excess of carbon in association with said solids beyond that consumed by combustion in said preheating zone, maintaining a higher pressure in said preheating zone than the pressure in said reaction zone, transferring a dense fluidized stream of solids from said preheating zone back to said reaction zone through a column of sufficient height to provide a hydrostatic back pressure substantially equivalent to the pressure differential between said preheating zone and said reaction zone, withdrawing reaction products from the upper part of said reaction zone and recovering acetylene therefrom.

2,405,396
ELECTROMAGNET
Carl E. Bazley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 29, 1944, Serial No. 565,599
5 Claims. (Cl. 175—341)

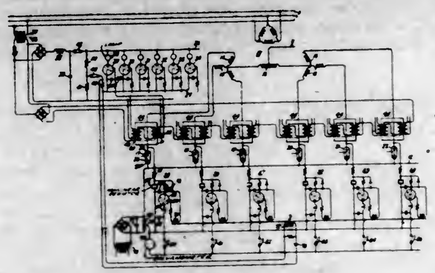


1. An electromagnet comprising a coil, a magnet core for said coil, an armature for said magnet core, an intermediate core member mounted in abutting engagement with said magnet core between said armature and said magnet core for movement away from said magnet core in the direction of movement of said armature to its unattracted position, said armature being movable by energization of said coil to an attracted position in engagement with said intermediate core member, a magnetic connection between said intermediate core member and said magnetic core providing for movement of said intermediate core member without substantial decrease in the magnetic flux in said intermediate core member, and a spring holding said intermediate core member in abutting engagement with said magnet core with a force substantially greater than the magnetic force effecting movement of said armature into engagement with said intermediate core member whereby said spring yields to provide for movement of said armature in the event of a shock applied to said magnet core while the coil is energized.

2,405,397
ELECTRIC CIRCUITS
Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 12, 1943, Serial No. 475,645
13 Claims. (Cl. 234—1.5)

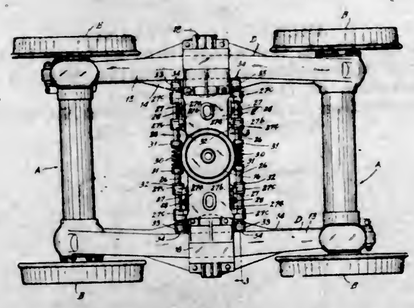
1. In combination, an electric valve means, means for rendering said electric valve means conducting and nonconducting during predetermined intervals and for subjecting said valve means to an inverse voltage cycle during each of the normally nonconducting intervals, said electric valve means being subject to an arc-back during said inverse voltage cycle, an energy storage device, means for supplying electric energy to said energy storage device, means including an electric discharge device connected to be

rendered conductive in response to the occurrence of an arc-back in said electric valve means for releasing the energy of said energy storage device, and means connected to be energized in



accordance with the release of energy of said energy storage device for determining the instant in the inverse voltage cycle that an arc-back in said electric valve means occurs.

2,405,398
CAR TRUCK
Tracy V. Buckwalter, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application April 20, 1944, Serial No. 531,848
7 Claims. (Cl. 105—193)



1. A car truck comprising side frames having bolster openings therein, springs in said bolster openings, the bolster having its ends disposed in said bolster openings and supported on the springs therein, and means interposed between said bolster and side frames for yieldably resisting relative movement of said bolster and side frames laterally of said truck, said means comprising two spaced axially alined horizontal rods mounted on said bolster on each side of the longitudinal center line thereof for independent limited axial sliding movement thereon laterally of said truck, and a preloaded coil compression spring interposed between the spaced ends of said rods and normally yieldably holding them at the limit of their sliding movement in the direction of said side frames.

2,405,399
TUBE BEADING AND EXPANDING TOOL AND METHOD
Kenly C. Bugg and Harry L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg
Application September 22, 1943, Serial No. 503,350
8 Claims. (Cl. 153—80)

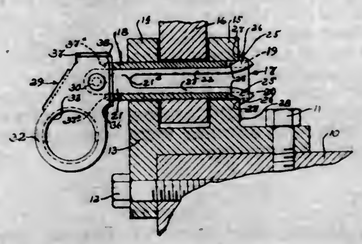
2. The method of making a quill for expanding a tubular article which comprises forming a die portion on the quill of the desired shape and with an O. D. substantially equal to the diameter of the quill in its expanded position, splitting the die portion and a portion of the quill into a plurality of oppositely disposed substantially parallel fingers, contracting said fingers to an O. D. where they will be readily insertable into the member upon which the die portion is to operate, and treating said quill to impart resilience to said fingers whereby they tend to return to their contracted positions.

3. In a device for forming beads on tubes extending through holes in a header or the like, the beads to be formed on each side of the header, the combination of a yoke member, a die actuating shaft slidably mounted in said yoke, actuating means pivoted to said yoke and having a cam member movable to move said shaft in a



direction away from the pivot, resilient means urging said shaft toward said pivot, a link pivoted to said pivot and extending within said shaft, a positioning member secured to said shaft, and a quill disposed within said positioning member, said quill comprising a die member secured to said shaft, said die member being composed of die fingers integrally connected adjacent one of their ends and having a bead forming ridge adjacent the opposite end, said fingers being spaced resilient members, the ridge ends being urged toward each other whereby the fingers at the ridge end are closer together than the fingers at the joined end, and a plunger secured to said link and extending between said fingers, said plunger having means thereon for spreading apart said fingers when the fingers and plunger are moved relatively to each other.

2,405,400
RELEASABLE PIN
John P. Butterfield, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 11, 1944, Serial No. 563,073
14 Claims. (Cl. 85—5)



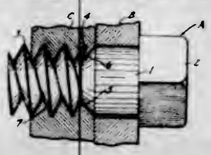
14. A releasable pin for holding parts by projecting therethrough, said pin comprising an outer member, and an inner member positioned within the outer member and having a blocking portion positionable to prevent withdrawal of the pin from the parts and a cam portion engageable with the outer member for causing by movement of the members with respect to one another the blocking portion to be retracted for providing for withdrawal of the pin from the parts.

2,405,401
APPARATUS FOR TREATING FIBROUS MATERIALS
Charles R. Carpenter, Robbinsdale, Minn.
Application August 14, 1943, Serial No. 498,669
5 Claims. (Cl. 19—33)



5. In an apparatus of the class described, a feed table comprising a conveyer belt, a pair of feed rolls at each end of the belt, means for simultaneously driving said feed rolls and belt in the same feeding direction, a scutching mechanism at each end of the feed table adapted to alternately receive hemp stalks from said feed rolls, control means for automatically causing said drive means to drive said belt and feed rolls, first in one direction to feed portions of the hemp stalks into one of said scutching mechanisms, and then in the opposite direction to feed the opposite ends of the hemp stalks into and out of the other of said scutching mechanisms, after which the belt is brought to rest in its normal starting position with the cleaned fibers supported thereon, said control means including a reversible clutch, having a pivoted arm and an endless chain having control elements thereon adapted to engage and actuate the clutch arm.

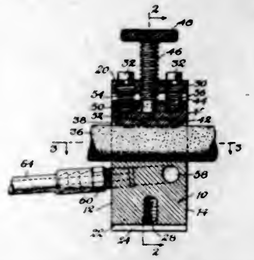
2,405,402
SELF-LOCKING BOLT OR NUT
Lionel A. Carter, Webster Groves, Mo.
Application December 27, 1943, Serial No. 515,645
13 Claims. (Cl. 151—21)



1. The combination of a member having a hole with an internal screw thread and a member having an external screw thread cooperating with said internal screw thread, one of said members having an annular groove therein at the rear end of the screw thread thereof, said groove being arranged with the wall thereof remote from said rear end of said screw thread in position to bear axially against the front end of the screw thread of the other of said members to thereby upset said front end of said last mentioned screw thread from helical to annular form when said members are threaded together.

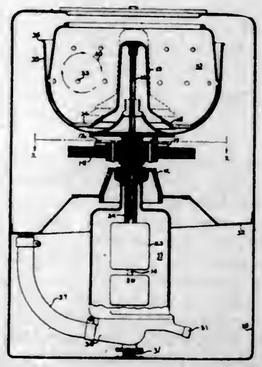
2,405,403
CARBON ARC ELECTRODE HOLDER
Steve Chronis, Corona, N. Y., assignor, by mesne assignments, to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application October 19, 1944, Serial No. 559,364
4 Claims. (Cl. 13—16)

1. A carbon arc electrode holder comprising a holder having a channel therethrough, said channel being open at its top, a contact shoe extending through said holder at its top and mounted in said holder for limited vertical movement therein, said contact shoe having a contact face at its bottom positioned at the open top of said channel and complementing the face of the channel to form therewith a seat for the carbon electrode, spring means in said holder active on the contact shoe for yieldably urging the same to its electrode seating position for constant contact with a carbon electrode being removed from or replaced in said holder, and a hand screw



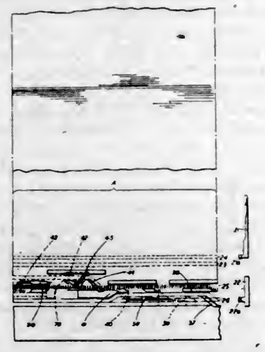
threadedly mounted in said holder and having its free end free from but engageable with the contact shoe for positively moving the same to and holding the same in its seating position to lock the carbon electrode in the holder, the said contact shoe being also rockably mounted in said holder about its region of engagement with the free end of said screw.

2,405,404
DOMESTIC APPLIANCE
Kendall Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 29, 1940, Serial No. 363,321
5 Claims. (Cl. 74—573)



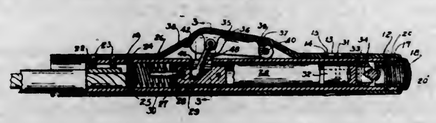
1. A centrifugal machine comprising a rotatable basket, a support for said basket permitting lateral movement thereof when an unbalanced load is in said basket, power means connected to said basket to accelerate said basket through a large speed range through gradually increasing speeds to a high speed, means for counterbalancing variable unbalanced loads in said basket throughout said speed range of said basket, thereby to prevent lateral movement of said basket due to an unbalanced load, said counterbalancing means comprising a set of independent weights each supported to swing in a plane perpendicular to the axis of rotation of said basket about circumferentially spaced pivots fixed relative to said basket, said weights being sufficiently heavy with respect to said unbalanced loads and said pivots being so located that said weights arrange themselves with their common center of gravity equal and opposite to the center of gravity of said unbalanced loads to cause said weights to exert an automatic counterbalancing reaction to a variable eccentric load in said basket.

2,405,405
PICKER MECHANISM AND MACHINES, ESPECIALLY KNITTING MACHINES, INCORPORATING SUCH MECHANISM
Bernard Thornton Cole, Burbage, England, assignor to B. Toone (Nottingham) Limited, Nottingham, England
Original application July 14, 1942, Serial No. 450,922, now Patent No. 2,372,554, dated March 27, 1945. Divided and this application September 16, 1942, Serial No. 458,542. In Great Britain October 20, 1941
13 Claims. (Cl. 66—48)



1. A picker mechanism for knitting machines or the like which have a line of instruments each provided with a butt, said instrument line and picker mechanism being mounted for relative movement between them longitudinally of the line: said mechanism comprising feeler means engageable with said butts to drop in behind the last one thereof; driving means temporarily disposable in front of one of the butts when the feeler means drops in as aforesaid, whereby to be displaced by such butt; and picking means displaceable by said driving means to make a picking movement.

2,405,406
WELDING ROD HOLDER
George A. Combridge, Los Angeles, Calif.
Application March 15, 1944, Serial No. 526,531
6 Claims. (Cl. 219—8)



1. In a welding rod holder, a handle, a tubular electrode within said handle, a tubular core shiftable within said electrode for receiving and gripping welding rods, a block seated in the rear portion of said core, a hand pressure plate hinged to said handle and a toggle lever pivoted to said pressure plate and having ball and socket engagement with said block.

2,405,407
RAILWAY FROG
John E. Conley, Memphis, Tenn.
Application August 13, 1941, Serial No. 406,619
4 Claims. (Cl. 246—471)

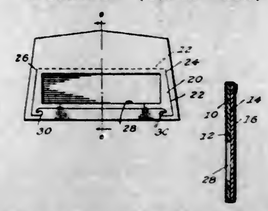


1. A railway frog comprising a guard rail, a main body portion, integral with said guard rail and separated therefrom by a space, a spring wing rail pivotally connected with the main body portion of the frog and working in the space between the guard rail and the main body of the frog, a spring connected with said spring wing rail for maintaining and returning the spring wing rail to its initial position, a plurality of separated freely open openings in the main body of the frog, and extending therealong, normally covered by said spring wing rail, said openings located so that the movement of said spring wing rail discharges, through said openings, foreign matter that may be in position to interfere with the movement of the spring wing rail.

2,405,408
PREPARATION OF SYNTHETIC GELS
Gerald C. Connolly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 12, 1942, Serial No. 458,140
7 Claims. (Cl. 196—52)

1. Method of preparing silica gels containing a metallic oxide and adapted for use in the conversion of hydrocarbon oils at elevated temperatures, which comprises forming a silica hydrosol, impregnating the hydrosol so formed with a solution of a metallic salt, thereafter converting the hydrosol to a hydrogel while the metallic salt remains as such therein, and thereafter decomposing the metallic salt into the corresponding oxide.

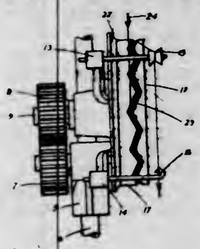
2,405,409
PICTURE MOUNT
Carroll N. Cross, Middleboro, Mass.
Application October 14, 1942, Serial No. 461,984
3 Claims. (Cl. 40—152)



1. In a display mount, a back board, a superimposed face board, a panel section completely severed from one of said boards and occupying an aperture in said board of the same outline as the panel section, a flexible covering material extending about the edges of said boards and over the face of the panel section and over the face of the board in which the panel section is formed securing said boards together, said covering material being severed along all but one side of the perimeter of said panel thereby constituting a hinge about which said panel section may turn, complementary interlocking elements formed in the panel section and in the adjacent board having edges substantially at right angles

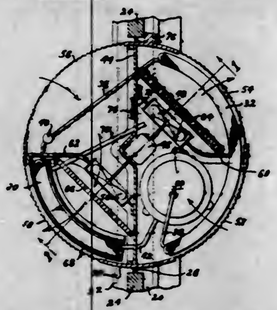
to the face of said board and to the face of said panel section and constituting a friction latch to maintain said hinged panel section in a closed position.

2,405,410
FEEDING MECHANISM FOR RING DOUBLING AND LIKE FRAMES
Arthur Davenport, Macclesfield, England
Application February 24, 1945, Serial No. 579,575
In Great Britain February 29, 1944
3 Claims. (Cl. 57—90)



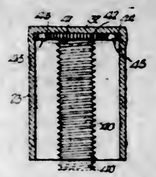
1. In a ring doubling or like frame having a creel provided with yarn-carrying bobbins and winding bobbins, a solid one-piece yarn pulley disposed in the path of the yarn as it passes from the bobbins of the creel to the winding bobbins, said pulley having an axially flat periphery provided with a Y-shaped zig-zag groove in which the yarn is directed during its passage from one set of bobbins to the other.

2,405,411
REFRIGERATING APPARATUS
Edwin S. Dybvig, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 31, 1944, Serial No. 520,435
23 Claims. (Cl. 62—129)



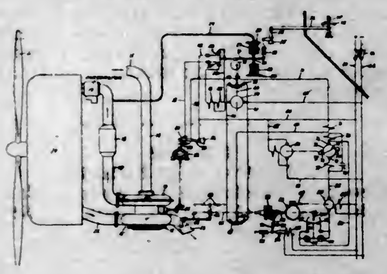
1. Air conditioning apparatus of the self-contained type comprising in combination, a cylindrical cabinet adapted to be supported in an opening in a wall with one portion of the cabinet projecting into the outside atmosphere and another portion projecting into the space to be conditioned, a refrigerating system including an evaporator and a condenser connected to said evaporator and mounted within said cabinet, means for flowing one stream of air in thermal exchange with said evaporator, means for flowing another stream of air in thermal exchange with said condenser, said cabinet having a plurality of peripheral openings for the ingress and egress of said air streams, and means for rotatably mounting said cabinet whereby the points of ingress and egress of said air streams may be shifted.

2,405,412
CONTACT-MAKING WIRE CLAMP OR CONNECTOR
Hugh H. Eby, Philadelphia, Pa., assignor to Hugh H. Eby, Inc., a corporation of Pennsylvania
Application June 10, 1943, Serial No. 490,372
4 Claims. (Cl. 85—1)



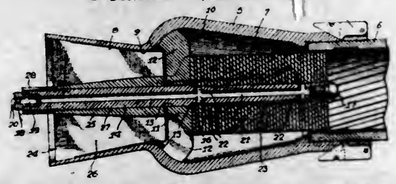
1. In contact-making wire clamps a movable portion for association with a relatively fixed internally threaded portion, comprising a thimble having a transverse web at one end and being open at the other, a threaded shank having a flange of such diameter as to be slidable axially into the thimble to overlie the web, and means anchoring the flange and web together to rigidly dispose the shank concentrically in the center of the thimble, comprising peripheral recesses in the flange defining anchoring points to interengage with said thimble, said flange being initially dished to form a convex face so that the diametrical distance between said points is not greater than the diameter of the thimble and said shank extends in its entirety from the convex face of said flange, and said flange being arranged to respond to relative axial pressure on the shank forcing the flange into substantial parallelism with the web to diametrically space said points to a degree such that the diametrical distance between points exceeds the diameter of the thimble to anchor said points in the thimble.

2,405,413
AIRCRAFT SUPERCHARGER ARRANGEMENT
Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 6, 1944, Serial No. 525,210
8 Claims. (Cl. 230—114)



1. Turbo-compressor arrangement including the combination of a compressor, a motor having a control element for driving the compressor, and a control mechanism for the element comprising a device responsive to pressure changes appurtenant to an operating condition of the arrangement, variable voltage means including a reversing motor, a circuit including contact means for said reversing motor, a lever operated by the device cooperatively associated with contact means to control the reversing motor circuit, follow-up means between the reversing motor and the lever and potentiometer means for connection to an electrical source and including a contact arm positioned by the reversing motor, and electrical means including an amplifier having a control element connected to the potentiometer means for positioning said element.

2,405,414
RECOILLESS GUN MECHANISM
Carolus L. Eksergian, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application April 5, 1944, Serial No. 529,576
4 Claims. (Cl. 89—1)



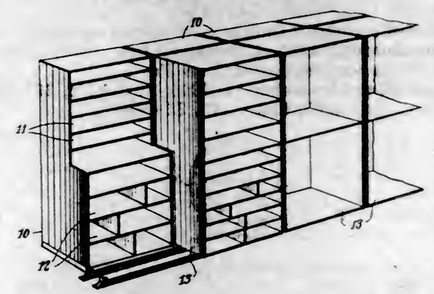
1. In a tubular casing having a portion of its inner wall surface stepped radially inwardly intermediate its ends to define a throat of reduced diameter, and the portion thereof between said throat and one end thereof of gradually increasing diameter, a supporting spider having a rod-like portion extending coaxially within said portion of gradually increasing diameter and leg portions axially abutting said stepped portion, a vaned member slidably supported on said rod-like portion and having outwardly extending vanes, said vanes having radially outermost surfaces thereof engaging said wall portion of gradually increasing diameter, and means urging said vaned member and supporting spider toward each other into tightly gripping frictional engagement respectively with the wall portions engaged thereby.

2,405,415
ROCKET PROJECTILE
Carolus L. Eksergian, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application April 25, 1944, Serial No. 532,577
2 Claims. (Cl. 102—49)



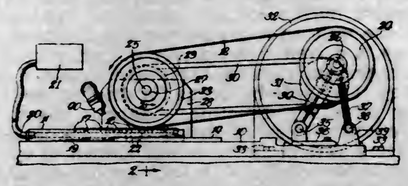
1. In a rocket type projectile including a cylindrical casing for housing a propelling charge and having a trailing end, a Venturi device coaxial with and extending rearwardly from said trailing end, said device having an annular wall gradually reducing in diameter to define a restricted throat and flaring outwardly and rearwardly from said throat to an external diameter substantially the same as the outside diameter of said casing, said flaring wall defining an expansion passage coaxial with said throat and casing, said flaring wall having radially inwardly extending, circumferentially spaced vanes, and said vanes having longitudinally extending slots therein opening outwardly through said wall, and a plurality of flat stabilizing fins, each fin having one end fitting within a slot and pivoted to the walls thereof adjacent the rearward end of said annular wall, said vanes being pivotally movable from a position longitudinally adjacent said annular wall to a radially outward position.

2,405,416
STORAGE ARRANGEMENT
Thomas Edward Foulkes, Ilford, England
Application February 10, 1943, Serial No. 475,414
In Great Britain February 12, 1942
12 Claims. (Cl. 312—107)



2. An article of manufacture comprising a series of rear rows of side-by-side container units and at least one front storage container having access faces all in the same direction and each having a back face opposite its access face and longitudinal partitions extending from the said access face to the back face dividing the container vertically into a plurality of storage spaces, the containers in at least one row being mounted for lateral movement with their back faces movable close to and across the said access face of those in another row, so that they can cut off access to those in such other row, the back faces of the rear storage containers and the front faces of the front storage containers being vertical, wherein the said access and back faces of such relatively movable containers are of complementary shape as to mate with each other at any position of their movement, each container unit having storage spaces of several different depths measured from the access face.

2,405,417
APPARATUS FOR GRINDING THE SURFACES OF SMALL OBJECTS
Hal F. Fruth, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application July 9, 1943, Serial No. 493,964
3 Claims. (Cl. 51—145)



1. Apparatus for grinding the faces of piezo-electric crystals, comprising a rotatably supported plate provided with means defining crystal holding pockets which travel around a circular orbit during rotation of said plate, each of said pockets being provided with an opening through the bottom wall thereof, vacuum producing means connected to said openings to produce suction thereat, thereby to hold the crystals in said pockets, means for rotating said plate, an endless flexible belt provided with an abrasive surface supported in a position to be successively engaged by the faces of the crystals held in said pockets during rotation of said plate, means for continuously

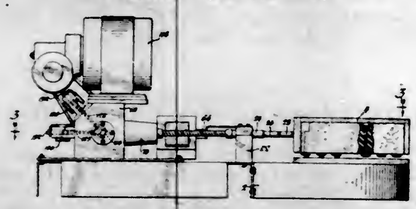
driving said belt, and means common to said openings for breaking the suction thereat, thereby to permit the crystals to be removed from said pockets.

2,405,418
GLOBE
Alfred F. Fukal, Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 11, 1944, Serial No. 567,595
6 Claims. (Cl. 35—46)



1. A globe comprising a spherical member having delineations thereon, a stand having a spherical bed for loosely receiving the spherical member and having a peripheral wall connected to the bed and providing a supporting base, and a scale member of arcuate form extending over the surface of the spherical member for holding the same on the stand and for permitting scale readings between parts of said delineations, said scale member being connected to the stand and being transparent and having a lenticular cross-section for optically enlarging the said delineations.

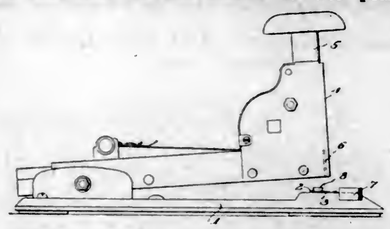
2,405,419
ADJUSTMENT SYSTEM
Martin W. Gaiser, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 5, 1942, Serial No. 441,825
13 Claims. (Cl. 250—40)



1. In an adjusting system for a coupling unit formed of capacity and inductance and having screwable means for adjusting the capacity to tune the unit to a predetermined resonant frequency, a driven screw driver normally held out of engagement with the screwable means, a step-by-step relay switch, means for driving the screw driver in either direction, magnetic means for controlling said screw driver drive connected to said relay switch, and a switch controlled by longitudinal movement of the driving means whereby the movement of the relay switch to different positions causes energization of the screw driver first to engage the screwable means and then rotate the same to a limit in one direction and then to a predetermined position in the opposite direction.

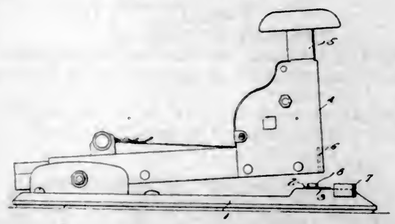
2,405,420
SHEET ATTACHING MECHANISM
Walter W. Guyon, Rochester, N. Y.
Application May 25, 1944, Serial No. 537,246
6 Claims. (Cl. 1—3)

1. The combination with a stapling machine for attaching superposed sheets and including a base, an anvil having a staple recess and a horizontal sheet-supporting surface acting to support a plurality of superposed sheets in horizontal position, a movable head having a staple-ejecting channel, and a plunger movable in the head to force a staple through said channel into the staple recess, of sheet-positioning means comprising guides located in a plane perpendicular to the direction of movement of the plunger



and along lines at right angles to each other and inclined to said staple recess and channel, said lines being adjacent to the ends of the staple recess and channel, and said guides having engagement with adjacent edges of a sheet inserted cornerwise and edgewise into the machine in a plane generally parallel to said horizontal sheet-supporting surface with said edges inclined to the staple recess.

2,405,421
METHOD OF ATTACHING A PLURALITY OF SHEETS
Walter W. Guyon, Rochester, N. Y.
Original application May 25, 1944, Serial No. 537,246. Divided and this application December 6, 1944, Serial No. 566,877
3 Claims. (Cl. 1—3)

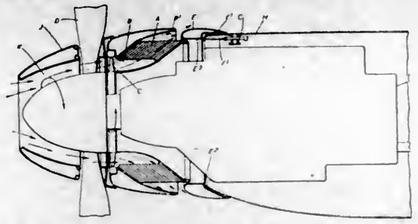


1. The method of attaching a sheet to another element which consists in positioning said parts with a corner portion of the sheet underlying the staple channel of the head of a stapling machine and with the adjacent edges forming said corner in predetermined position inclined to and located between the ends of the channel, and affixing a staple around said adjacent edges of the sheet and across opposite surfaces of said corner portion in frictional engagement with the outer surfaces of the sheet and element.

2,405,422
COOLING OF ENGINES IN AIRCRAFT
Frank Bernard Halford, Edgware, and Cecil Louis Cowdrey, Hitchin, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application February 14, 1945, Serial No. 577,914
In Great Britain November 15, 1943
4 Claims. (Cl. 123—171)

1. In an aircraft the combination of an engine casing, a cowling extending rearwards from the fore part of the engine and outside its casing,

an airscrew, an annular passage running rearwards between the said cowling and the said engine casing from an inlet opening behind the airscrew to an annular outlet opening in the cowling, a radiator having a generally annular formation disposed in this passage, a fan rotatable about the airscrew axis in a direction contra to that of the airscrew and situated between the airscrew and the inlet opening into the said



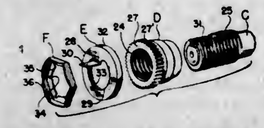
annular passage into which air is delivered by the fan to flow through the radiator, an annular shutter mounted adjacent to and at the rear of the said annular outlet opening in the cowling through which the air flows after passing through the radiator, and means for moving this shutter in the direction of the airscrew axis so as to vary the dimensions of the said outflow opening and thereby control the air flow through the radiator.

2,405,423
COMPOSITION PANEL BOARD
William F. Hayes, Detroit, Mich.
Application July 31, 1940, Serial No. 348,875
3 Claims. (Cl. 154—44)



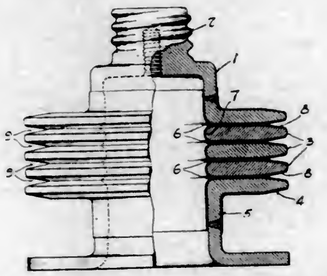
1. A composite fiber board comprising a plurality of loosely felted fibrous sheets, including at least one sheet which is saturated and at least one sheet which is not saturated with hardened thermoplastic waterproofing material, adhered in superposed relation with a relatively hard thermoplastic adhesive material, and a facing sheet adhered to an impregnated loosely felted sheet by a relatively hard thermoplastic adhesive material, said hard adhesive material associated with the sheets rendering the laminated structure board-like in character.

2,405,424
FASTENING DEVICE
Alexander G. Herreshoff, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 6, 1942, Serial No. 449,868
5 Claims. (Cl. 151—29)



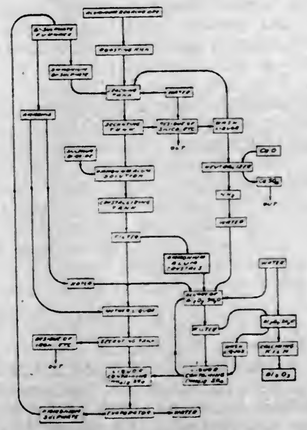
1. In a locking device for a plurality of members, a bolt having a threaded portion and an axial slot in the threaded portion, a nut adapted to engage the threaded portion of the bolt and having axially extending raised portions entirely about the periphery, a cap having raised portions entirely about an inner surface adapted to engage the raised portions of the nut so as to prevent relative rotation of the nut and the cap and to permit relative axial movement and also having a tongue adapted to project into the axial slot of the bolt to prevent relative rotation of the cap and the bolt, and a locking member adapted to be engaged by the tongue of the cap so as to be prevented from rotating with respect to the bolt and having a body portion deformable into very tight engagement with the threaded portion by rotation of the locking member against the cap.

2,405,425
ELECTRICAL INSULATOR
Waldo W. Higgins, Whitefish Bay, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 30, 1942, Serial No. 441,199
9 Claims. (Cl. 174—167)



8. An electric insulator bushing comprising a plurality of metal members secured together by a substantially bubble-free high dielectric ceramic enamel material fused and bonded to the adjacent faces of said members and providing a substantial resistance against electrical breakdown.

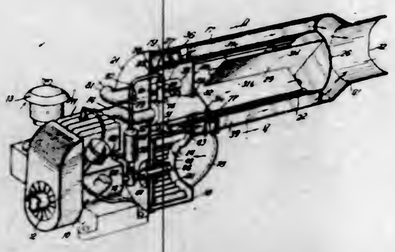
2,405,426
PRODUCTION OF ALUMINA
Carl K. Hitchon, Stamford, Conn., and John D. Pennell, Jr., New York, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application June 29, 1943, Serial No. 492,712
5 Claims. (Cl. 23—141)



1. A method of producing alumina from aluminum-bearing earths containing iron which in-

cludes the following steps, digesting an aluminum-bearing earth with a hot aqueous solution containing at least six mols of ammonium bisulphate for each mol of aluminum in the earth calculated as alumina, removing the insolubles, reducing ferric iron to the ferrous state, crystallizing a substantially iron-free ammonium alum from the resultant liquor, dissolving the alum crystals in water, precipitating the aluminum hydrate therefrom in granular form with ammonia and calcining the aluminum hydrate to produce the alumina.

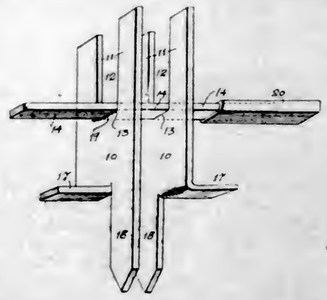
2,405,427
HEATER
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 2, 1941, Serial No. 409,190
16 Claims. (Cl. 126—110)



1. In an air heater of internal combustion type operated in conjunction with an internal combustion engine having an exhaust gas conduit, a combustion chamber means for said heater having an inlet at one end, an air chamber means at said one end separated from said combustion chamber means, passage means about said combustion chamber means for the air to be heated, air supply means, means proportioning the air from said air supply means to said air chamber means and air passage means, a Venturi portion positioned in the inlet of said combustion chamber means, said exhaust conduit having an end portion thereof positioned in said air chamber means with a discharge outlet at said Venturi portion, means preparing a combustible mixture for burning in said combustion chamber means including heat exchanger means mounted on said conduit end portion, said heat exchanger means being adapted to receive air and fuel and having an outlet at said Venturi portion, means admitting air into said heat exchanger from said air chamber means, means supplying fuel to said heat exchanger means, said fuel being heated in said heat exchanger means and vaporized for mixing together with said air, with the flow of the engine exhaust gases from said conduit through said Venturi portion providing an ejector action for drawing the vaporous air and fuel mixture from said heat exchanger outlet into said combustion chamber means for burning therein with said exhaust gases.

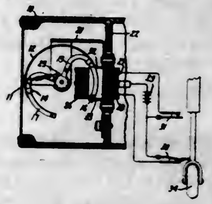
2,405,428
LOAD TRANSFERENCE UNIT
James H. Jacobson, Chicago, Ill.
Application August 14, 1943, Serial No. 498,660
2 Claims. (Cl. 94—17)

1. In combination with concrete pavement slabs presenting opposed edge faces on opposite sides of a gap, a load transference unit comprising oppositely facing unit members each formed of plate material adapted to afford great resistance to load stresses, and having a body and spaced, upwardly extending arms in the plane of the body and presenting their exposed faces flush with the edge faces of said opposed concrete slabs, the body of each unit member being in part extended to provide a downwardly projecting spike entered into the subgrade and in part extended horizontally to provide a flat faced foot underlying the concrete and contacting the sub-



grade, a dowel bar bridging the space between the slabs and the unit members and supported between the spaced arms, and rigidly secured to one of the unit members, and having its ends extended backwardly therefrom and into the respective slabs, one end portion of the dowel bar having a slidable contact with the other of said unit members, and a sheath loosely arranged on said dowel bar end portion and located beyond the adjacent unit member and positionable on the dowel bar independently of said adjacent unit member.

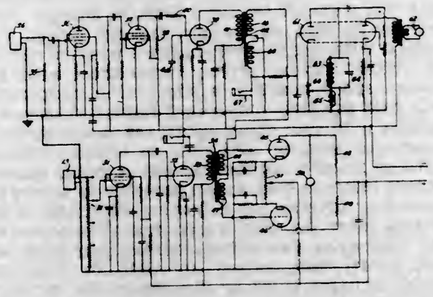
2,405,429
POSITION INDICATOR
Richard G. Jewell, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application December 10, 1943, Serial No. 513,813
5 Claims. (Cl. 177—311)



4. A position indicator comprising a rotary member having an indicating surface part formed in the shape of one-half of a hollow cylinder, means for rotatively supporting said member on an axis coinciding with the axis of such a cylinder, a pair of sector-shaped permanent magnets secured on said rotary member and arranged in the arc of a circle with respect to its axis of rotation in arcs, each of approximately 60 degrees, adjacent that occupied by the one-half cylinder indicating surface part such that there remains an open gap between the ends of the permanent magnets of approximately 60 degrees arc, said magnets being polarized to have like

poles facing each other across said gap, means for biasing said rotary member to a central rotary position when rotated in either direction from such position, a pair of reversely wound stationary hollow coaxial coils positioned end-to-end within and occupying substantially but not more than the entire gap space between the sector-shaped permanent magnets when the rotary member is in its central position with the axis of said coils in alignment with the sector-shaped magnets such that the magnets may freely enter the coils when the rotary member is rotated from its central position, said coils being adapted to be individually energized with direct current such that the magnet which is nearer the coil which is energized is repelled and the other magnet is attracted causing rotation of the rotary member from the central position, and means for limiting rotary movements of said rotary member to approximately 60 degrees from the central position, the resultant torque tending to produce rotation of said rotary member being substantial and approximately the same in its central and extreme rotary positions when either coil is energized whereby said rotary member has quick operation and good holding torque.

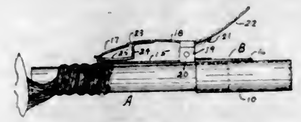
2,405,430
APPARATUS FOR ANALYZING ROTATIONAL UNBALANCES
Earle L. Kent, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana
Application March 25, 1943, Serial No. 480,500
6 Claims. (Cl. 73—66)



1. A device for analyzing rotational unbalances comprising means for developing an alternating electric voltage having a frequency corresponding with the frequency of rotation of a rotating body and a phase bearing a known relation to a point on said body, means to clip the peaks of the alternating voltage to provide a series of voltage pulses of constant maximum amplitude, means for developing an alternating electric voltage having a frequency and phase corresponding with a point of unbalance on said body and an amplitude proportional to the extent of unbalance, means for combining said voltages to provide a resultant proportional to their product, and indicating means responsive to the resultant.

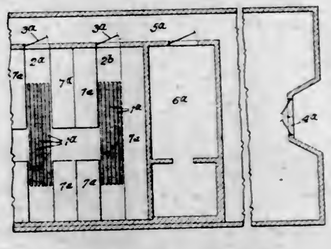
2,405,431
HAIR CURLING DEVICE
Adele Kiernan, Racine, Wis.
Application July 24, 1944, Serial No. 546,265
3 Claims. (Cl. 132—33)

1. A device of the character described, comprising an elongated circular in cross section member and another member rotatably mounted thereon with the elongated circular member at its lower end protruding, a strip rigidly secured at its upper end to the other member, its lower end being adapted to lie contiguous to the circular member a short distance from the lower end thereof and having at its lower end spaced apart outwardly extending prongs, a lever member hingedly mounted intermediate its ends on said strip, the upper end normally extending outwardly, a spring associated with said lever and



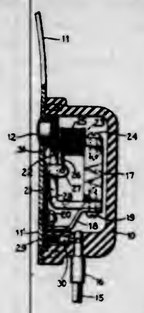
its support, whereby its lower end will yieldingly lie on the lower end of said strip and between said prongs whereby the lower end of said lever may be lifted clear of the prongs and a tuft of hair then laid on the strip and adjacent the prongs, and the lower end of the lever then released to thereby yieldingly hold the tuft of hair on the strip while the other member is turned so the tuft of hair will be snugly wound around the circular member and whereby the curl formed may be held in position by the fingers and the device removed.

2,405,432
COOLING APPARATUS
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Original application March 20, 1939, Serial No. 262,910. Divided and this application April 6, 1942, Serial No. 437,742
3 Claims. (Cl. 62—89)



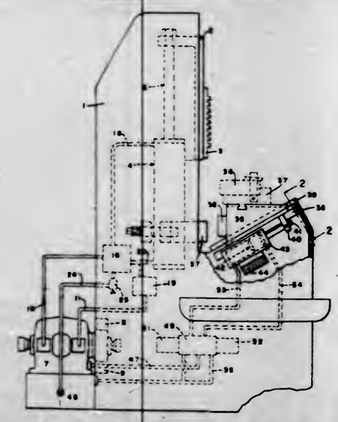
2. A cooling system comprising a storage room for the articles to be cooled, said room having a plurality of corridors with lockers lining said corridors, a plurality of cooling plates suspended in the upper part of said storage room, in groups arranged in the upper portions of said corridors, each said cooling plate consisting of imperforate sheets of metal connected together and sealed to form a hermetically sealed space between them, a coil through which refrigerant material is passed, located in each said plate, the plates lying in vertical planes extending longitudinally along and in vertical alignment with said corridors, the sheets of each plate being held in intimate engagement with the sides of the coils in said plate, and means for circulating refrigerant material through the coils of said plates, the plates being so constructed and arranged that the opposite sides of each plate are in contact with the air in the storage room.

2,405,433
BONE CONDUCTION AUDIPHONE
Henry Koch, Jamaica, N. Y., assignor to Dictograph Products Company, Inc., New York, N. Y., a corporation of Delaware
Application December 31, 1941, Serial No. 425,039
8 Claims. (Cl. 179—107)



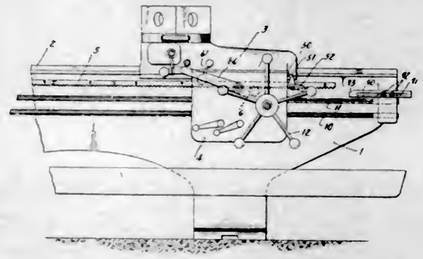
5. In an audiphone receiver, the combination of an electrical means adapted to respond to varying currents substantially throughout the audible frequency range, a headband having a relatively flat portion adapted to engage the head of the user, a contactor vibrated by said electrical means and substantially flush with said headband portion for transmitting its vibrations through the bone to the inner ear, and a casing for said electrical means mounted on said headband.

2,405,434
BROACHING MACHINE
Edgar H. Krainer, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 2, 1944, Serial No. 547,693
4 Claims. (Cl. 90—33)



2. In a broaching machine having a broaching tool and means for moving said tool along a fixed path to enable it to take a cut from the surface of work extending into said path whereby the force exerted by said means upon said tool is resolved into an axial component which tends to move said work in the direction of movement of said tool and a lateral component which tends to move said work away from said tool, the combination of a stationary support arranged adjacent the path of said tool and having a surface inclined toward said path, a carriage movable upon said surface and adapted to carry the work to be broached, a stop for so locating said carriage that the work thereon is in position to be broached, and means for moving said carriage into and out of engagement with said stop and for holding said carriage against said stop while said work is being broached, said surface being inclined in such a direction that both the axial and lateral components of said force press said carriage against said surface.

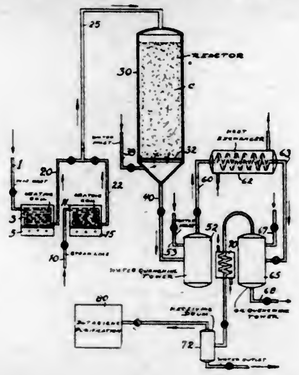
2,405,435
MACHINE TOOL
Oskar Kylin, Henrik O. Kylin, and Michael L. Valentino, Cleveland Heights, Ohio, assignors to Bardons and Oliver, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 20, 1943, Serial No. 479,868
2 Claims. (Cl. 82—22)



1. In a machine tool, including ways, a driven feed shaft and a driven rapid traverse shaft, in combination with a slide movable along said ways and said shafts, of an apron comprising a gear box carried by said slide, a change speed gearing in said apron and having driven connection with one of said shafts, a positive reversible clutch having driven connection with said change speed gearing, a slip clutch cooperating with said positive clutch and having driven connection with said other shaft, manually operated means for feeding said slide in either direction, a clutch in said manual means, a rapid traverse control lever on said apron movable to a forward, neutral or reverse rapid traverse position, a feed control lever on said apron movable to engage and disengage the driven connection with said feed shaft, and means operable by said first named control lever to disengage the clutch in the manual feed means and to effect a driven connection through said positive clutch to said rapid traverse shaft when said lever is moved to either its forward or reverse rapid traverse position, said last named means including a bar slidable by said lever, a pivoted member within the apron operably associated with said reversing clutch and movable by the movement of said bar, and mechanism actuable by movement of said bar to operate said manual control clutch whereby, when said first named control lever is moved out of its neutral position, a rapid traverse drive is effected and said manual drive is rendered ineffective.

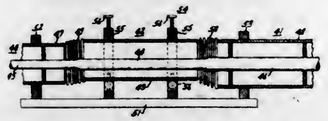
2,405,436
CATALYTIC DEHYDROGENATION
Kenneth C. Laughlin, Wilmington, Del., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 10, 1943, Serial No. 509,660
7 Claims. (Cl. 260—669)

1. In the continuous catalytic dehydrogenation of hydrocarbons carried out at elevated temperatures in the presence of a steam insensitive catalyst and steam, the improvement which comprises



maintaining the catalyst activity at a high level by increasing the ratio of steam to hydrocarbon as the catalyst activity tends to decline.

2,405,437
IMPEDANCE MATCHING TRANSFORMER
Laurance M. Leeds, Rotterdam Junction, N. Y., assignor to General Electric Company, a corporation of New York
Application September 1, 1942, Serial No. 456,941
2 Claims. (Cl. 178—44)

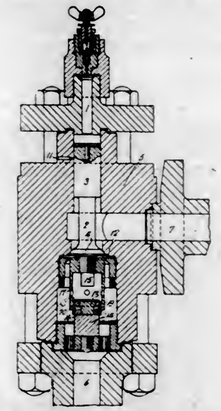


1. A transmission line section adapted for connection between adjacent ends of two concentric transmission lines of unequal surge impedance to match the impedance of one of said lines to that of the other, said transmission line section comprising an outer conductor adapted for connection between the outer conductors of said concentric lines and an inner conductor adapted for connection between the inner conductors of said concentric lines, means to move one of said conductors of said section in a direction transverse to the other conductor while maintaining said one conductor substantially parallel therewith to vary the eccentricity of said section to match said impedances, and yielding electrical connections between said one conductor and the conductors of said concentric lines to which it is connected to allow said movement by said means in said transverse direction.

2,405,438
FIRE EXTINGUISHING COMPOSITION AND METHOD OF MAKING SAME
David Levin, Philadelphia, Pa., assignor to Chemical Concentrates Corp., Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application December 28, 1943, Serial No. 516,124
6 Claims. (Cl. 252—3)

1. The process of producing a fire-extinguishing composition which comprises mixing a substance taken from the class consisting of cottonseed and peanut cakes with hydrated lime in the ratio of about 100 to 15, adding a relatively large amount of water thereto, heating the same at a temperature of about 95° C. for about two hours, until the proteins have been converted to proteoses and peptones, filtering off the insoluble material, the amount of peptones being not over about 20% of the nitrogen compounds present, said proteoses being capable of becoming hardened and toughened when subjected to high temperatures.

2,405,439
EXPLOSIVE OPERATED VALVE
Isaac Lubbock, Geoffrey Joseph Gollin, Allan Lindsay, and Harold James Poole, London, England; said Lubbock, Gollin, and Lindsay assignors to The Asiatic Petroleum Company, Limited, London, England
Application November 6, 1942, Serial No. 464,832
In Great Britain November 7, 1941
7 Claims. (Cl. 137—139)



1. An explosive operated valve comprising detent means adapted when operated to engage a part of the valve, and a body of solid material adapted when struck to flow and operate said detent means, and means operating when the valve opens to strike said body of solid material.

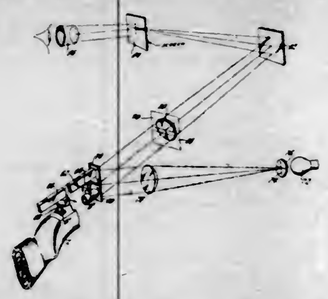
2,405,440
ISOMERIZATION OF OLEFINS
Nat H. Marsh, Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 23, 1944, Serial No. 560,043
6 Claims. (Cl. 260—683.2)

1. A method for the non-skeletal isomerization of an olefin which comprises contacting it with a sulfide of a metal selected from the group consisting of nickel and tungsten at a temperature between about 150° and 700° F.

2,405,441
GUN SIGHTING DEVICE
Edward J. Martin, Pleasant Ridge, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 16, 1943, Serial No. 514,440
4 Claims. (Cl. 88—74)

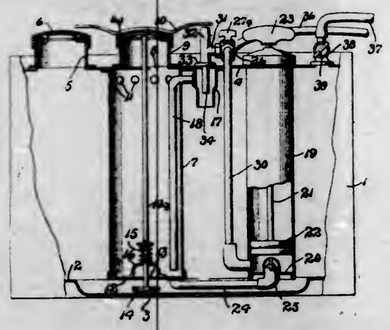
1. In aligning means for guns having visible sights thereon, light reflecting means mounted on the barrel of the gun whose position is determined by the bore thereof, a second light reflecting means mounted upon the sights and whose

position is determined by the alignment thereof, means for projecting a beam having definite configuration onto the two reflecting surfaces simultaneously, and means operatively positioned with



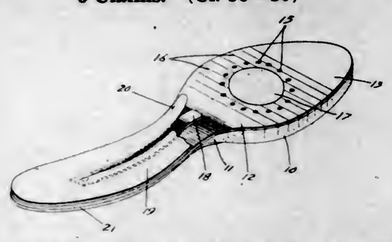
respect to the light reflecting means to project said rays onto an image plane in such a way that the coincidence of these rays may be observed.

2,405,442
AUXILIARY GASOLINE CONTAINER
Robert D. Mayo, Flint, Mich.
Application December 18, 1944, Serial No. 568,754
12 Claims. (Cl. 259—60)



1. In a construction of the class described, a main receptacle having a bottom, vertical sides and ends and a top closing the upper end of the main receptacle, a secondary receptacle of smaller capacity secured at its upper end to the under side of said top and suspended therefrom with its bottom located above the bottom of the main receptacle, said bottom of the secondary receptacle having an opening therethrough, a valve located below the bottom of the secondary receptacle adapted in upper position to close said opening a vertical rod connected to the valve and extending through said secondary receptacle and through the top of the main receptacle, filling inlets connected to said top one over said secondary receptacle, through which said receptacles may be supplied with liquid, closure caps for said filling inlets, the closure cap for the inlet to the secondary receptacle bearing against the upper end of the rod to move said valve to a lower position, spring means normally elevating the valve to closing position when free to do so, a conducting pipe extending through a side of said secondary receptacle near the upper end thereof extending downwardly substantially to its bottom, and means for withdrawing liquid through said conducting pipe from the secondary receptacle and delivering it for mixture with liquid in the main receptacle.

2,405,443
PLATFORM SOLE
Frank S. Mees, Swampscott, Mass.
Application January 25, 1945, Serial No. 574,449
5 Claims. (Cl. 36—30)



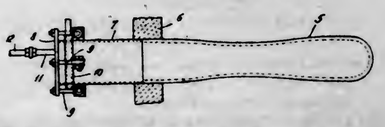
1. A platform sole unit comprising a full-length ply of thin fibrous material, a thick platform ply of resilient composition co-extensive with the forepart of the fibrous ply and beveled to a feather edge in the shank of the sole, a curved steel shank stiffener located adjacent to the fibrous ply and extending forwardly beneath the feather edge of the platform ply, and stiff fibre shank pieces enclosing the shank and heel-seat portions of the fibrous ply and the said steel shank stiffener.

2,405,444
RADIOGRAPHIC FILTER
Santiago Moreau, Marcelo Heberto Moreau, and Jorge Enrique Moreau, Buenos Aires, Argentina
Application August 5, 1942, Serial No. 453,707
7 Claims. (Cl. 250—86)



1. An X-ray filter comprising a filter body having a region progressively varying in density in the direction of one dimension of said body, and means for altering the extent of said region of varying density.

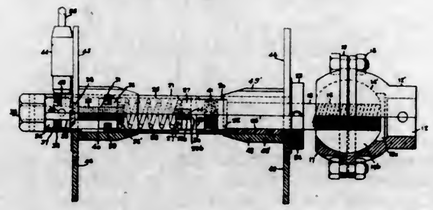
2,405,445
OPERATING METAL RETORTS
Willis M. Peirce, Lehighton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application March 10, 1944, Serial No. 525,857
3 Claims. (Cl. 153—32)



1. In the reduction of magnesium in a metal retort subjected while heated for reduction to a high temperature to a compressive stress tending to collapse the retort, the improvement which comprises subjecting the retort while heated to a temperature approximating its high reducing temperature to an internal gaseous pressure of

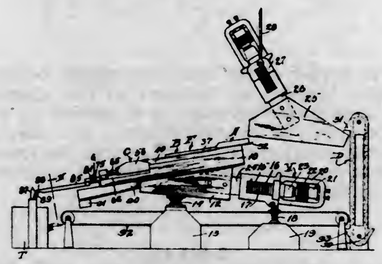
from 40 to 80 pounds per square inch at periodic intervals during the normal operation of the retort, said intervals occurring at times when no charge is in the retort.

2,405,446
ROLL SUPPORTING DEVICE
Lewis Perrault, Tulsa, Okla., assignor of one-half to The Philip Carey Manufacturing Company, a corporation of Ohio, and one-half to Perrault Bros., a copartnership composed of Lewis and Amslie Perrault
Application November 2, 1943, Serial No. 508,690
11 Claims. (Cl. 242—11)



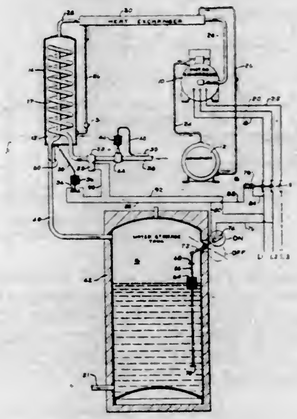
3. In a pipe wrapping device, an arm for supporting a supply of wrapping material comprising a hollow tubular member, a shaft projecting into the tubular member on which said tubular member is adapted to be rotated and having a portion seated against an offset ledge in the hollow member, spaced apart collars or plugs within the tubular member for holding a friction device against the shaft, a spring interposed between the collars or plugs, an adjusting means for adjusting one of the collars to compress the spring, a wrapping carrying reel, and means for causing the wrapping carrying reel to be rotated with the hollow member.

2,405,447
FEED STRUCTURE FOR CARTRIDGE BELT LINKS
Per O. Persson, South Bend, Ind., and Carl W. Spohr, Chicago, Ill., assignors to United States Government, as represented by the Secretary of War and his successors in office
Application November 23, 1942, Serial No. 466,600
12 Claims. (Cl. 198—30)



1. A feed assembly for feeding to a testing machine metallic links of the type described having a transverse body with a single loop extending in one direction from the central part of the body and two loops of different diameter extending from the ends of the body in the opposite direction, comprising a frame defining a runway, means for supplying links to the runway, means for vibrating said frame for travel of the links along the runway, means at the entering end of said runway for aligning the incoming links to lie flat in said runway with their loop axes extending transversely of the runway, a first carrier bar extending from the outlet end of the runway for receiving the links therefrom for suspension from the bar by said single loops and with their other loops depending, a second bar for receiving the links from said first bar, means at the end of said first bar effective to cause links not in proper position to turn said links for reception by said second bar so that all the links received by said second bar will be suspended with their loops of lesser diameter at one side of the bar, and means for guiding the links from said second bar into the testing machine.

2,405,448
REFRIGERATING APPARATUS
Irving S. Ritter, Plainfield, N. J., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 13, 1945, Serial No. 572,619
5 Claims. (Cl. 62—7)

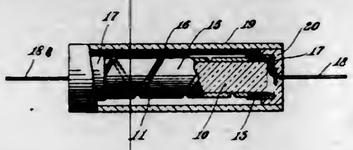


1. A fluid-chilling apparatus comprising a cooling unit, means including a valve for admitting the fluid to be chilled into said cooling unit, refrigerating means for extracting heat from the fluid admitted into said unit, and means, responsive to the temperature of the fluid to be chilled, for actuating said valve to increase the flow of said fluid into said cooling unit as the temperature of said fluid drops and to decrease the flow of said fluid into said cooling unit as the temperature of said fluid rises, thereby to chill a continuous stream of said fluid to the desired temperature while imposing a substantially constant and full load on said refrigerating means, regardless of variation in the the temperature of the fluid to be chilled.

2,405,449
ELECTRICAL RESISTANCE ELEMENT
Preston Robinson, Williamstown, and Stanley O. Dorst, North Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application December 31, 1943, Serial No. 516,328
13 Claims. (Cl. 201—75)

1. An electrical resistance element comprising

a non-conducting base coated with vitreous carbon, and partially short-circuited by electrically



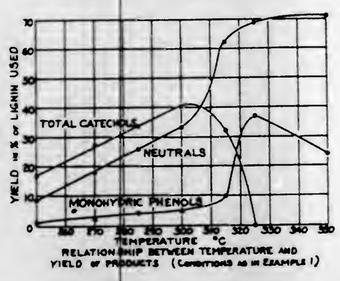
conducting material imbedded in said vitreous carbon.

2,405,450

PROCESS FOR MAKING LOW MOLECULAR WEIGHT LIGNIN DEGRADATION PRODUCTS

Jörgen Richter Salvesen, Ralph L. Hossfeld, and Robert J. Lovin, Wausau, Wis., assignors to Marathon Corporation, a corporation of Wisconsin

Application February 1, 1944, Serial No. 520,668
15 Claims. (Cl. 260—124)



RELATIONSHIP BETWEEN TEMPERATURE AND YIELD OF PRODUCTS (CONDITIONS AS IN EXAMPLE I)

1. A process for making low molecular weight simple distillable organic compounds from lignin substances which comprises treating a lignin substance with a mixture of water, sodium alkaline solution, and a water-immiscible lower primary aliphatic alcohol at 270° to 350° C.

2,405,451

PROCESS FOR PRODUCING LOW MOLECULAR WEIGHT LIGNIN DEGRADATION PRODUCTS

Jörgen Richter Salvesen, Ralph L. Hossfeld, and Robert J. Lovin, Wausau, Wis., assignors to Marathon Corporation, a corporation of Wisconsin

No Drawing. Application January 22, 1945, Serial No. 574,024
9 Claims. (Cl. 260—124)

1. A process for making low molecular weight distillable organic compounds from lignin substance which comprises treating a lignin substance with a mixture of water, sodium alkaline solution, and a secondary aliphatic alcohol at 250° to 350° C.

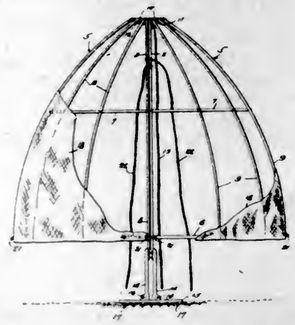
2,405,452

TREE PROTECTOR

John O. Savage, Trenton, N. J.

Application May 10, 1945, Serial No. 592,997
4 Claims. (Cl. 47—21)

4. A tree protector comprising a pair of frame sections, each section embodying end stays, stays arranged between the end stays, curved rods connecting the stays, plates to which the upper ends of the stays are connected, one of said plates having an opening, a latch member pivotally connected with the opposite plate and adapted to extend into the opening of the adjacent plate, securing the upper ends of the sections together, means for pivotally supporting



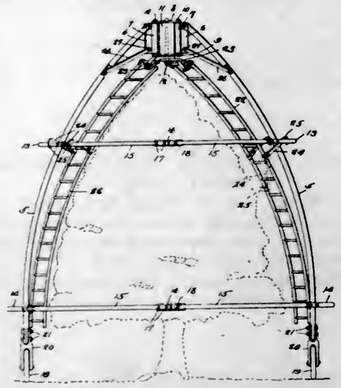
said sections at opposite sides of a tree, cables connected to the sections and by means of which said sections are swung upwardly housing a tree, and a flexible covering mounted on each of the frame sections and adapted to move over the frame sections covering the frame sections.

2,405,453

FRUIT PICKER'S APPARATUS

John O. Savage, Trenton, N. J.

Application June 26, 1945, Serial No. 601,619
3 Claims. (Cl. 304—9)



1. A device of the class described, comprising a frame shaped to conform to the shape of a tree, said frame adapted to be moved to a position to encircle a tree, ladders, and means for pivotally connecting the ladders to the frame for vertical and horizontal adjustment with respect to the frame.

2,405,454

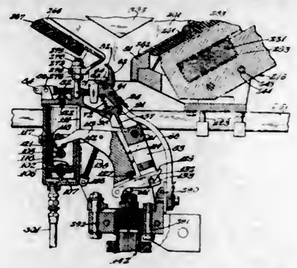
CIRCUIT INTERRUPTER AND CONTROL THEREFOR

William Maxwell Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 3, 1941, Serial No. 373,051
9 Claims. (Cl. 200—82)

1. A single pole circuit interrupter comprising a pair of insulated bars, a first contact secured to

said bars, a second complementary contact and operating mechanism therefor, a frame detachably secured to said bars, said frame carrying



said second contact and said operating mechanism, and an arc quencher pivotally mounted upon said bars.

2,405,455

PERMANENT MAGNET

John D. Seaver, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 12, 1943, Serial No. 475,653
5 Claims. (Cl. 175—21)

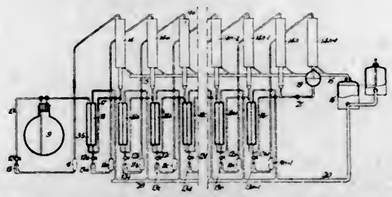
1. A permanent magnet containing 2 to 8% cobalt, .5 to 3.5% copper, 10 to 20% molybdenum with the remainder substantially all iron with the exception of impurities.

2,405,456

METHODS OF AND APPARATUS FOR DIALYTICALLY SEPARATING MIXTURES OF SUBSTANCES

Rudolf Signer, Gumligen, Bern, Switzerland

Application October 19, 1942, Serial No. 462,658
In Switzerland August 23, 1940
2 Claims. (Cl. 210—8.5)



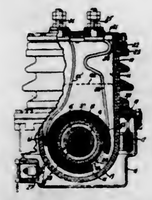
1. The method of dialytically separating a mixture of substances, the first of which has a higher coefficient of dialysis than the second, comprising conducting from an initial body of solution of the mixture a flow of the solution, evaporating the flow of solution into a first relatively concentrated solution and purified solvent, flowing said first concentrated solution across one face of a first dialytic diaphragm while at the same time flowing purified solvent across the other face of said first diaphragm, whereby a relatively greater amount of the first substance of the mixture passes through the first diaphragm to the purified solvent and the solution passing the first side of said first diaphragm retains a relatively greater amount of the second substance, evaporating the solvent containing the relatively greater amount of the first substance into purified solvent and a second relatively concentrated solution containing a higher proportion of the first substance than the initial solution and the first relatively concentrated solution, flowing the said second relatively concentrated solution across one face of a second dialytic diaphragm while at the same time flowing purified solution across the other face of said second diaphragm, evaporating the solvent from said second diaphragm into purified solvent and a third relatively concentrated solution containing a higher proportion of the first substance than either the initial solution or the first or second relatively concentrated solutions, flowing the purified solvent from the last-mentioned evaporation into contact with the said other side of one of the diaphragms, collecting the third relatively concentrated solution containing the higher proportion of the first substance, returning the relatively concentrated solution of substance containing the higher proportion of the second substance from the second dialytic diaphragm to the first side of the first diaphragm, and returning the relatively concentrated solution containing the higher proportion of the second substance from the first dialytic diaphragm to the initial body of solution, whereby said initial body of solution becomes progressively richer in the second substance.

2,405,457

COIL WINDING FOR ELECTRIC APPARATUS AND METHOD OF MAKING SAME

Allen T. Sinks, Beach Bluff, Mass., assignor to General Electric Company, a corporation of New York

Application October 23, 1943, Serial No. 507,419
8 Claims. (Cl. 175—358)



1. An electrical induction apparatus including a pot type solid body of insulating material having an integral inner tubular shaped wall and an integral outer wall spaced from said inner wall providing a winding space between said walls, a split spool of conducting material loosely surrounding said inner wall, a conductor wound around said spool with the inner end attached to said spool, a pair of terminals, and means for connecting one of said terminals to said spool and the other of the terminals to the outer turn of said wound conductor.

8. A method of forming a coil winding around a tubular wall at the bottom of the pot type insulated transformer including the steps of placing two semi-cylindrical metallic members in the cavity around the tubular wall to form a winding spool, placing a chain in the cavity around the spool for rotating the spool, rotating the spool, and placing a thrust member in the cavity and against the spool to prevent the spool from binding on the wall during rotation of the spool.

2,405,458

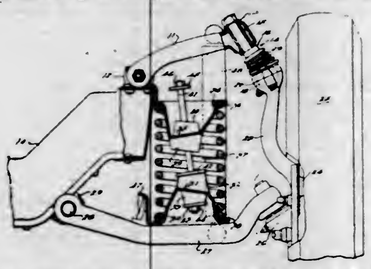
VEHICLE WHEEL CONNECTING JOINT

Frederic W. Slack, Detroit, and Chester C. Utz, Magnolia, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application February 19, 1945, Serial No. 578,664
6 Claims. (Cl. 280—96.2)

1. In an assembly comprising a vehicle frame, upper and lower links pivotally connected to the

vehicle frame, a wheel-supporting part, and means forming a universal joint between the lower link and the wheel-supporting part, the combination of the wheel-supporting part and the upper link, of means forming a universal joint between the upper link and the wheel-supporting part, said means including a member having a shank portion normally fixedly secured to and extending through the upper link at a substantial angle to its length and a spherical portion having its center displaced from the axis of the shank portion and engaged by the wheel-supporting part, manual loosening of the member from the upper link making possible angular shifting of the member about the axis of the shank portion resulting in shifting of the spherical portion in the direction of the length of the upper link.



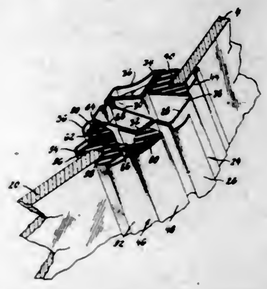
2,405,459
DISPENSING CONTAINER FOR ROLL PAPER
Ernest Smith, Hamilton, Ontario, Canada, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada
Application May 8, 1944, Serial No. 534,576
In Canada November 5, 1943
3 Claims. (Cl. 206—58)



1. A container for a roll of paper formed of a single blank folded upon itself to form a lower portion having front, rear, bottom and end walls, said end walls being formed from flaps on the front, rear and bottom walls, the flaps on the front and rear walls being interlocked together, said container including a cover portion formed from said blank having a front wall folded upon itself a plurality of times forming three plies the innermost ply of which projects below the other two and defines a cutting edge against which paper withdrawn from the roll may be severed, one ply of said front wall having end extensions forming end walls of the cover and provided with tabs folded underneath the top of the cover and secured thereto tending to hold the front wall of the cover toward the front wall of the box.

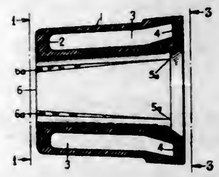
2,405,460
DOOR SEAL
Glen A. Smith, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 2, 1944, Serial No. 556,680
4 Claims. (Cl. 20—69)

1. In combination, a door post having abutment surfaces defining spaced substantially parallel planes, a door having first and second flanges projecting therefrom, a compressible sealing member secured to said door between its flanges,



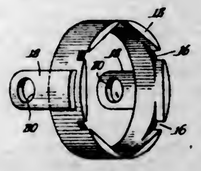
and embracing one of said flanges, said sealing member having spaced projections to engage said post abutment surfaces when the door is closed.

2,405,461
BLAST FURNACE TUYÈRE
John H. Sprow, Jackson, Ohio
Application August 22, 1945, Serial No. 612,015
5 Claims. (Cl. 266—41)



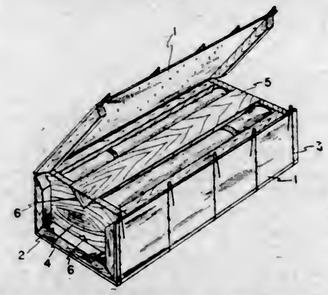
1. A blast furnace tuyère of frustro-conical shape having a circular rear end portion and a nose end portion having oppositely spaced circular arcs formed by tapering parts of the wall intermediate the rear end and the nose end thus forming the said concentric arcs of varying widths so as to vary the velocity and direction of the air inserted in the rear end of the tuyère to be forced into the blast furnace.

2,405,462
WRENCH
Carlyle B. Stair, Downers Grove, Ill.
Application April 14, 1944, Serial No. 531,101.
2 Claims. (Cl. 76—114)



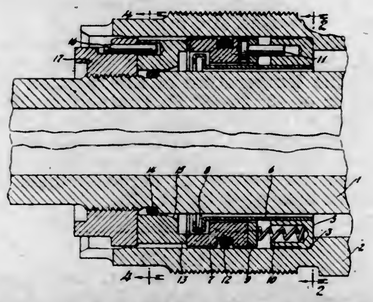
1. The method of manufacturing a wrench socket which comprises cutting pipe into short lengths, and producing a plurality of cuts successively across one end of one of said lengths of pipe, said cuts each being in a different plane substantially tangent to the inside face of said pipe, said planes being angularly displaced from each other to form a regular polygon.

2,405,463
BOX
Earl R. Stivers, Rockaway, N. J., assignor to Stapling Machines Co., a corporation of Delaware
Application July 7, 1943, Serial No. 493,797
3 Claims. (Cl. 217—12)



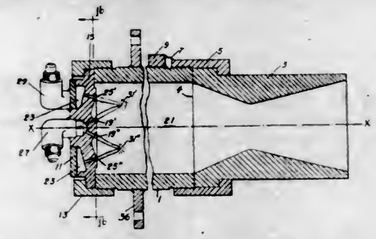
1. In a box having four sides and an interior cleat frame at each end of the box, means to close the ends and divide the box lengthwise comprising: an unattached end section at each end of the box, contacting the cleat frame and held thereby against outward displacement, and having V-shaped notches cut or formed in the top and bottom edges of the section; and a pair of unattached dividers, each triangular in cross section, extending lengthwise the box intermediate its sides and resting in the notches in the end sections and held against substantial longitudinal displacement by adjacent cleats.

2,405,464
SEAL
John E. Storer, Jr., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 8, 1945, Serial No. 571,833
4 Claims. (Cl. 286—7)



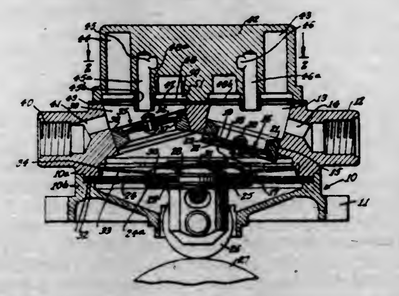
2. In a running fit seal for axial introduction into a pocket between a pair of relatively rotatable parts, a replaceable unit comprising a seal ring having a nose running fit to a companion ring carried by one of the parts, a mounting ring having a key projected from its innermost face for extension into a keyway in the other part, a spreader spring between said rings, a retainer shell fixed at one end to said mounting ring and having an offset at its other end radially overlapping a radial face of the seal ring as a stop abutment therefor to limit outward movement under spreader spring force away from the mounting ring, and a tool engaging formation on said radial offset to facilitate the insertion and removal of said unit and the placement of said key in its keyway.

2,405,465
JET PROPULSION MOTOR
Martin Summerfield, Pasadena, Calif., assignor to Aerojet Engineering Corporation, Azusa, Calif., a corporation of Delaware
Application May 7, 1943, Serial No. 486,078
2 Claims. (Cl. 60—35.6)



1. In a jet propulsion motor comprising a tubular body section, an exhaust nozzle at one end of the tubular body and a propellant injector at the other end of the tubular body, there being a longitudinal axis extending centrally through the body and centrally through the exhaust nozzle, said body, injector and exhaust nozzle forming a combustion chamber, the improvement which comprises a plurality of pairs of propellant injection orifices through the injector, means for supplying a propellant fluid to one orifice of each pair, and means for supplying a different propellant fluid to the other orifice of each pair, the orifices of each pair being directed so that their axes extend in the general direction of said longitudinal axis and intersect at a point within the chamber, whereby the propellant fluids passing through the orifices of each pair impinge at said point, the positioning of said orifices and the arrangement being such that the product of fluid density, stream cross-sectional area, the square of stream velocity and the sine of the angle between the axis of the fluid stream and the longitudinal axis of the nozzle for one fluid stream equals that for the other stream whereby the direction of motion of the propellant fluids after impingement is substantially parallel with said lonigtudinal axis, the impingement points being substantially uniformly spaced over the cross-sectional area of the combustion chamber.

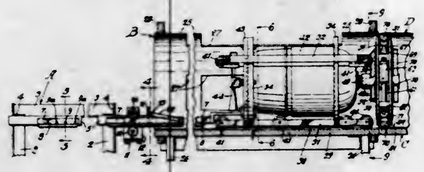
2,405,466
FLUID TRANSFER APPARATUS
Warner T. Tabb, Brooklyn, N. Y., assignor to Eisemann Corporation, Brooklyn, N. Y., a corporation of Delaware
Application September 14, 1943, Serial No. 502,262
10 Claims. (Cl. 103—150)



1. In a pulsation damping device; the combination of a chamber for receiving liquid subject

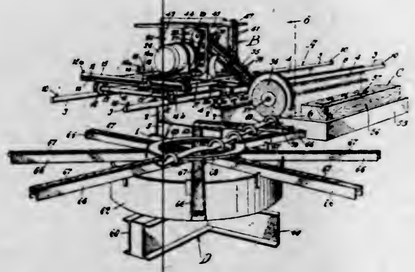
to pulsations and a body of gas above said liquid for cushioning pulsations in the liquid, a separator plate loosely mounted in said chamber and being movable to permit the liquid to flow past the plate in either direction in response to variations in the pressure of said liquid; whereby turbulence of the liquid above said plate and escape of gas past said plate are minimized.

2,405,467
INTERNAL GRINDER AND POLISHER
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 28, 1943, Serial No. 473,811
20 Claims. (Cl. 51—34)



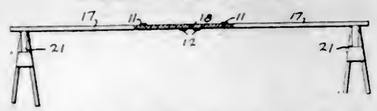
19. In a finishing device for finishing the interior surface of a tubular element, a carriage adapted to penetrate the element to be finished, centering and supporting connections between the carriage and the opposed inner surfaces of the element, constituting the sole supporting means for the carriage during its penetration within the element, means for preventing rotation of the carriage, a rotary finishing head on said carriage, a motor supported on said carriage, adapted to rotate said finishing head, and means for propelling the carriage longitudinally along and within the tubular element.

2,405,468
FOUNDRY CUTOFF MACHINE
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 28, 1943, Serial No. 473,812
6 Claims. (Cl. 51—105)



1. In a castings trimmer, a base, an elevator mounted on said base, a radially extending carriage track mounted on said elevator and rotatably adjustable about the axis of the base, a carriage radially movable on said track, a turntable on said carriage, a cutter supporting arm mounted on said turntable for rotation about a generally horizontal axis, a horizontally axised rotary cutter on said arm and means for driving it, and means for supporting the castings to be trimmed.

2,405,469
PLANK OR BOARD JOINT
Frank J. Tirrel, George, Iowa
Application July 22, 1944, Serial No. 546,164
1 Claim. (Cl. 304—40)



A plank joint comprising a pair of spaced side members adapted to receive plank ends therebetween, straps attached to, and beneath said side members for engagement with the ends of the planks, further straps attached to and above said side members, and at the extremities thereof for receiving planks thereunder whereby downward pressure on the plank ends will prevent relative movement of the plank ends and will secure the same, said lower straps being spaced apart, and being attached centrally of said joint, said lower straps including projections for engaging into the plank surfaces, said upper straps having openings for the reception of securing nails, said side members being of a depth to receive various plank thicknesses, and being spaced sufficiently to receive various plank widths.

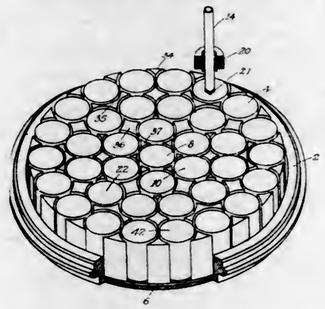
2,405,470
MANUFACTURE OF ACETIC ANHYDRIDE
Karl Heinrich Walter Tuerck, Banstead, and Hans Joachim Lichtenstein, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application October 29, 1942, Serial No. 463,820. In Great Britain July 28, 1941
5 Claims. (Cl. 260—546)

1. In a process for the manufacture of acetic anhydride by the oxidation of acetaldehyde in the liquid phase by means of molecular oxygen, the steps consisting in effecting the oxidation at a temperature below 40° C. to produce a reaction mixture containing acetic anhydride, acetic acid, water and more than 3% by weight of percompounds, thereafter, and prior to the working up of the reaction mixture, treating the reaction mixture to reduce its content of percompounds by raising the temperature of the reaction mixture to a value of 40° to 50° C., contacting said reaction mixture with an atmosphere poor in oxygen and maintaining the reaction mixture under those conditions for a period of time sufficient to reduce the content of percompounds therein to a value below 3% by weight.

2,405,471
MANUFACTURE OF ACETIC ANHYDRIDE
Karl Heinrich Walter Tuerck, Heathfield, Buckles Way, Banstead, and Eric Harvey Brittain, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
Original application October 29, 1942, Serial No. 463,819. Divided and this application July 17, 1945, Serial No. 605,607. In Great Britain July 23, 1941
8 Claims. (Cl. 260—546)

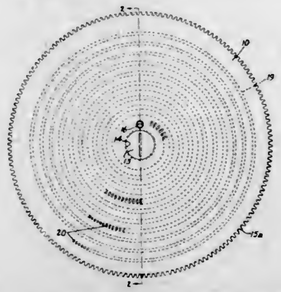
8. In a process for the manufacture of acetic anhydride by the liquid phase oxidation of acetaldehyde with molecular oxygen, the steps of effecting the oxidation in the presence of paraldehyde, distilling the reaction mixture to remove water and acetic acid therefrom in the form of a vapor in admixture with paraldehyde and to leave a residue of acetic anhydride.

2,405,472
DIAPHRAGM
William Norris Tuttle, Cambridge, Mass., assignor to General Radio Company, Cambridge, Mass., a corporation of Massachusetts
Application June 12, 1934, Serial No. 730,245
Renewed October 22, 1937
18 Claims. (Cl. 177—386)



14. In an acoustical apparatus, a diaphragm having a face and adapted to vibrate in a direction substantially normal thereto so as to produce a loop of expansional vibration at the said face and a node of expansional vibration spaced therefrom, said diaphragm being subdivided into sections by interconnecting annular channels that extend a sufficient distance each side of the said node of expansional vibration to insure substantial in-phase vibration of the aforesaid face.

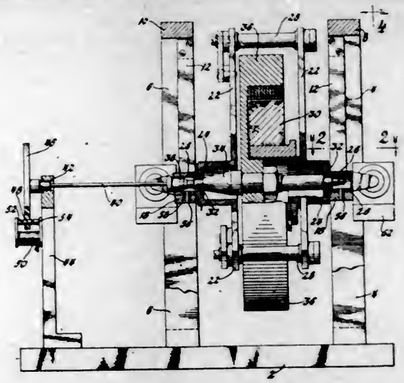
2,405,473
CAM GEAR STRUCTURE
Frank E. Valentine, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 24, 1942, Serial No. 463,163
6 Claims. (Cl. 74—424.5)



1. Gear cam structure comprising a disk, a rack of predetermined form on said disk formed with involute teeth, and a pinion co-acting with said disk provided with teeth inter-engaging with those of said rack, said pinion teeth being in the form of an involute of revolution.

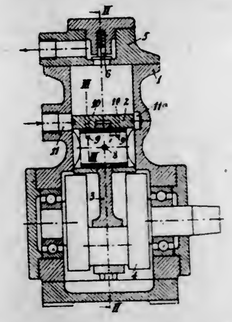
2,405,474
BALANCING MACHINE
Thomas C. Van Degrift, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 27, 1942, Serial No. 467,113
11 Claims. (Cl. 73—66)

1. In a machine for balancing rotating parts, a base, a pair of spaced open bearing members resiliently mounted on the base, a driving stator field assembly for supporting a driven rotor to be tested adapted to be slung in the bearing members, and pickup means mounted on the base



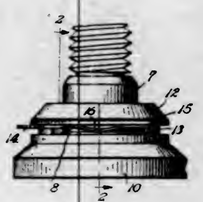
adjacent each bearing member having a portion extending into contact therewith to pick up the vibration of the bearing member due to the rotation of the rotor.

2,405,475
GAS PUMP
Paul Jean Voreaux, Saint-Cloud, France, assignor to Raymond Gentil, Neuilly-sur-Seine, France
Application July 17, 1945, Serial No. 605,484
In France May 30, 1942
5 Claims. (Cl. 230—190)



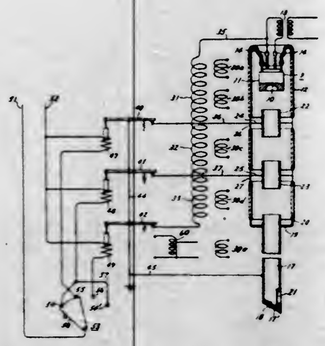
1. A valveless pump which comprises a cylinder having two spaced apart side ducts through its wall; a piston reciprocably movable in the cylinder, having a side bored recess for communication with one of the ducts in the cylinder, and a second side recess for communication with the other duct in the cylinder; a coupling pin borne in the first named recess for swinging motion therein, having a first recess in open communication with said first recess in the piston, and a separate second recess in open communication with the second side recess in the piston; and a connecting rod fast with said coupling pin, adapted in operation to impart a swinging motion thereto; the piston and pin having each at least two ports therethrough, said ports being so directed and located as to register two by two for predetermined positions of the piston with respect to the cylinder, for placing the inner space of said cylinder in communication either with the first recess in the pin or with the second recess in said pin.

2,405,476
STEM ATTACHING MEANS FOR GLOBE VALVES
Albert J. Weatherhead, Jr., Shaker Heights, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application October 20, 1944, Serial No. 559,627
10 Claims. (Cl. 287—91)



1. In combination, a valve stem having an enlarged head, a valve disc having a sleeve to receive said head, said sleeve being formed with a circumferential groove and an opening from the groove through the sleeve and a retainer slidable into the groove and into engagement with said head to hold said stem and disc in assembled relation.

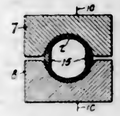
2,405,477
RAY-GENERATING APPARATUS
Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 26, 1942, Serial No. 456,179
6 Claims. (Cl. 250—99)



1. In combination, a ray-generating tube comprising a series of aligned electrodes including a target as the last electrode in the series, an energizing circuit for impressing potentials of increasing magnitude on the electrodes which are progressively more remote from the cathode, and means for varying the total acceleration of electrons projected between the cathode and target, said means comprising an arrangement for connecting the target to various potential points of said energizing means without changing the connections of the other electrodes thereto.

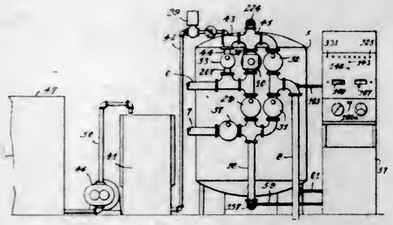
2,405,478
METHOD OF THICKENING A LOCALIZED LONGITUDINAL ELEMENT IN A TUBE
Sven Westin, West Allis, and Axel Westin, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application October 6, 1944, Serial No. 557,500
14 Claims. (Cl. 219—3)

2. The method of thickening a longitudinal segmental portion of a tubular blank while reducing the blank in diameter, comprising producing relative rotation and shaping pressure between the blank and a plurality of radially opposed electrode forming dies to simultaneously heat and



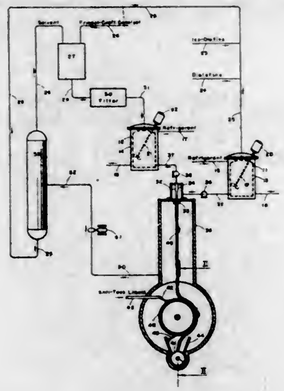
shape the blank, and selectively heating adjacent segmental portions of the blank by regulating the relative heating current passing therethrough from said dies to obtain a heating differential therebetween.

2,405,479
WATER TREATMENT DEVICE
Fred W. Whitlock, Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois
Application May 31, 1941, Serial No. 396,055
31 Claims. (Cl. 210—24)



1. The combination in a water softener of a softener tank, a source of regenerating solution, conduits connected with said tank for introducing raw water to be treated therein, introducing regenerating solution, carrying away treated water and a drain conduit, valve means for controlling the flow through said tank movable successively between service, backwash, regenerating, and rinse positions, testing means including a cell connected with the tank for testing the effluent of the tank for hardness during the service position and for regenerating solution during the rinse position, turbidity testing means including a cell connected to receive liquid from the tank for testing effluent going to the drain for turbidity while said valve means occupies the backwash position, valve actuating means for moving said valve means through said positions in succession, control means for said valve actuating means including a plurality of circuits and switches for operatively connecting the actuating means with said testing means to move the valve means from backwash to regenerating position when the turbidity testing means indicates less than a predetermined turbidity in the drain effluent and from the rinse position to service position when said first testing means indicates the absence of regenerating solution in the drain effluent of said tank.

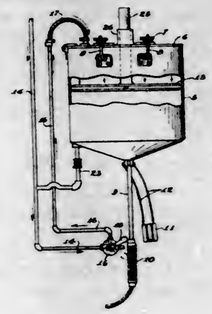
2,405,480
POLYMERIZATION PROCESS
Henry D. Wilde, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 5, 1944, Serial No. 557,258
4 Claims. (Cl. 18—47.5)



1. In a polymerization process wherein polymerizable olefinic material is reacted at a temperature substantially below atmospheric to produce vulcanizable polymer in the presence of a Friedel-Crafts type catalyst as a chilled stream projected into space, the steps of forming said stream into a sheet after a substantial portion of the olefinic material has reacted to form vulcanizable polymer and heating the resulting sheet to a temperature in the range of 100° to 200° C. to remove readily vaporizable constituents therefrom and produce a sheet comprising a major portion of vulcanizable polymer and subsequently extruding the hot sheet through an orifice.

2,405,481
GREASE DISPENSER
Frederic Wilkes, Wilkinsburg, Pa.
Application October 19, 1943, Serial No. 506,822
5 Claims. (Cl. 226—125)

1. A dispensing device for grease and the like, comprising a chamber having a discharge nozzle of a length not substantially less than the length of a grease gun barrel to be placed over the nozzle for filling, a piston in the chamber, means for supplying fluid pressure to the rear side of the piston, to move it toward the nozzle and thereby effect discharge of grease from the chamber, a valve controlling the supply of fluid pressure, means operable to open the valve through the sliding of a grease gun barrel into position over the nozzle, and means for automatically closing

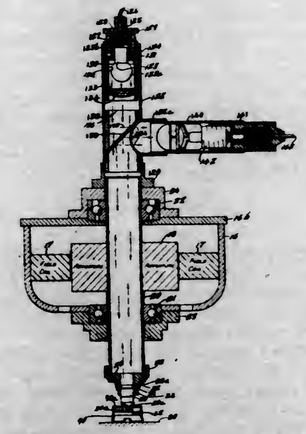


the valve upon removal of said barrel from the nozzle.

2,405,482
CHEMICAL PRODUCTS AND PROCESS OF PREPARING SAME
John C. Zimmer, Union, and Arnold J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 27, 1941, Serial No. 412,596
1 Claim. (Cl. 260—125)

The process which consists in treating paraffin wax with chlorine until it contains about 30%–40% by weight of chlorine, and reacting the resultant chlorinated paraffin wax with about 2%–5% by weight of phosphorus sesquisulfide at a temperature of about 250°–370° F.

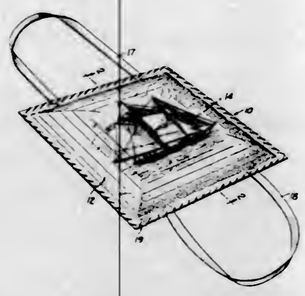
2,405,483
APPARATUS FOR INSPECTING MANUFACTURED ARTICLES
Cecil P. Abrams, Anoka, Minn.
Application October 2, 1943, Serial No. 504,667
9 Claims. (Cl. 209—111)



1. An apparatus for testing a surface on an article having in combination, means for position-

ing an article having an annular surface, a source of light, a rotatable mirror for receiving said light from said source and directing it to travel along said surface, said light being reflected from said surface back to said mirror, power means for rotating the mirror, means for receiving said reflected light and transmitting it in a certain direction, and means controlled by said reflected light for moving said article in a certain path if said surface is interrupted so that no light is reflected from said mirror.

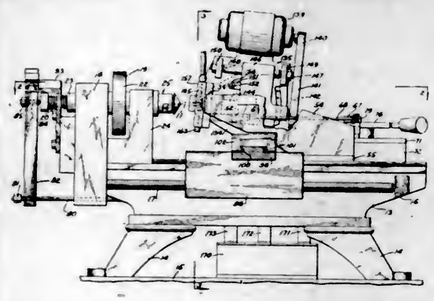
2,405,484
COMBINATION CUSHION AND LIFE PRESERVER
George Bailhe, Brooklyn, N. Y.
Application November 29, 1943, Serial No. 512,120
1 Claim. (Cl. 9—17)



An ornamental cushion, life preserver, or the like comprising in combination; a mass of resilient compressible substance adapted to be compressed and to assume substantially its original shape after pressure has been relieved therefrom; with a permanently affixed cover therefor completely surrounding said compressible mass to form a cushion, life preserver, or other like articles, said cover comprising a flexible, elastic and transparent sheet of plastic substance which is impervious to water and unaffected by oil and grease, and is adapted to flex and stretch in substantial conformity with the deformation of said compressible cushion, life preserver, or the like when pressure is applied to said cover and compressible mass, and ornamental indicia in reverse affixed to the surface of said cover on the underside thereof and positioned adjacent said compressible mass perceivable from the outside surface remote from said compressible mass, said ornamental indicia being thereby protected from water, oil, grease and abrasion to prevent wear and damage thereto.

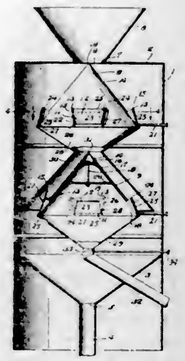
2,405,485
ARTICLE FORMING APPARATUS
Elmer E. Barkstrom, Chicago, and Lorris Williams, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 28, 1943, Serial No. 500,362
10 Claims. (Cl. 90—11.64)

1. An article-forming apparatus comprising means for rotating a blank, cutting means engageable with the blank, lever means for moving the cutting means into engagement with the blank, a cam for actuating said lever means, means for advancing the cutting means longitudinally of the blank during the rotation of the blank, means actuated by said lever means for initiating operation of said advancing means, means operable for reversing the operation of the



advancing means, and means movable with the cutting means during its advance for rendering the operation reversing means operative.

2,405,486
SAMPLING MACHINE
Philip J. Bauer, Basic Township, Clark County, Nev.
Application March 29, 1943, Serial No. 480,987
1 Claim. (Cl. 73—421)

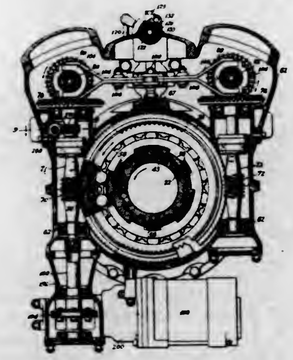


The combination, in a sampling machine, of a movable cone having spaced openings therein and a flange on one edge of each opening to form a splitter, a stationary cone having openings of the same configuration and correspondingly spaced as the openings in the movable cone and a flange on one edge of each opening to form a splitter, the splitters of the stationary cone being on the edges of the openings that are oppositely related to the edges of the openings on which the splitters on the movable cone are located, the movable cone being seated on the stationary cone in a nested relationship with the splitters of the stationary cone extending through the openings of the movable cone, means to rotate the movable cone whereby the openings may be brought in and out of registration to vary the size thereof, a funnel for feeding material over the movable cone, the apex of the movable cone being centrally located at the discharge opening of the funnel, and a receiver in the form of an inverted truncated cone located beneath the stationary cone to receive material discharged through the registered openings of the cones.

2,405,487
MIXING METHOD
Robert Louis Brandt, New York, N. Y., assignor, by mesne assignments, to Robert B. Colgate, Lloyd Neck, N. Y.
No Drawing. Application April 10, 1942, Serial No. 438,415
2 Claims. (Cl. 99—71)

1. The process which comprises comingling and simultaneously intensely vibrating at a frequency between 500 and 5000 vibrations per minute dry solid water-soluble constituents of roasted coffee and the liquid substantially water-insoluble solvent-soluble constituents of roasted coffee to yield a divided solid product which is readily dispersible in an aqueous medium.

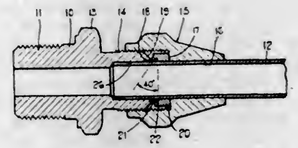
2,405,488
VARIABLE PITCH PROPELLER
Emil A. Briner, East Orange, N. J., assignor to Aero Engineering Corporation, a corporation of New Jersey
Application April 12, 1944, Serial No. 530,594
7 Claims. (Cl. 170—163)



1. The combination of a rotatable variable pitch propeller, a member for changing the pitch of the propeller blades while the propeller is being rotated, a non-reversible force-transmitting actuator for said member, a worm wheel for moving the actuator, a pair of worms for driving the worm wheel, two independent power transmitting means for driving the worms to change the pitch of the blade and means for engaging and disengaging the power transmitting means, the worms and worm wheel being of reversible pitch to permit one worm to drive the other worm through the worm wheel when there is a time lag between the starting of the two worms by the two power transmitting means.

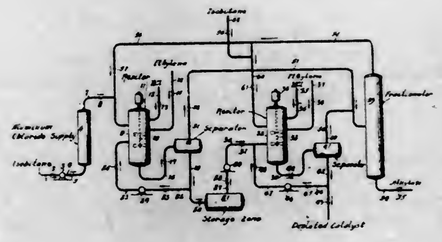
2,405,489
COUPLING DEVICE FOR PIPES OR TUBES
William Hudson James Brock, Leamington Spa, England, assignor of one-half to Automotive Products Company, Limited, Leamington Spa, England
Application September 27, 1943, Serial No. 504,008
In Great Britain November 30, 1942
4 Claims. (Cl. 285—122)

1. In a tube coupling device including a body portion to which the tube is to be attached and an annular clamping member, a gripping collar adapted to overlie the tube and to be clamped axially between said body portion and said clamping member, said gripping collar having an internal annular recess defined between an initially frusto conical annular lip and an annular surface lying substantially in a plane normal to the



axis of the collar, an annular surface of said body portion lying substantially parallel to the annular surface of said collar in position to be engaged by said lip, and means for forcing said clamping member toward said body portion to flatten said lip of said collar between said annular surfaces normal to the axis of the collar to cause the lip to bite into the tube.

2,405,490
ALKYLATION OF ISOPARAFFINS
Joseph A. Chenicek and Ralph B. Thompson, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 31, 1943, Serial No. 496,878
9 Claims. (Cl. 260—683.4)



1. An alkylation process which comprises reacting an isoparaffin with an olefin in the presence of an aluminum chloride-hydrocarbon complex in a first alkylation stage and separating resultant hydrocarbon alkylate from said complex, introducing controlled amounts of fresh aluminum chloride into the first alkylation stage and withdrawing from said stage controlled amounts of aluminum chloride-hydrocarbon complex whereby to maintain a substantially constant aluminum chloride content of the aluminum chloride-hydrocarbon complex within said first stage, introducing said withdrawn aluminum chloride-hydrocarbon complex and additional isoparaffin and olefin to a second alkylation stage wherein said complex is employed as an alkylation catalyst without the addition of fresh aluminum chloride, and removing from said second alkylation stage an aluminum chloride-hydrocarbon complex of substantially depleted alkylating activity.

2,405,491
IRONING MACHINE
Kendall Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application May 21, 1938, Serial No. 209,227. Divided and this application January 26, 1943, Serial No. 473,621
13 Claims. (Cl. 312—2)

7. A folding supporting means for an ironer comprising a table top for mounting the ironer, first and second named legs hinged one at each end of said table top respectively, a pedal base hinged to the bottom of said first named leg and extending to said second named leg, a base for the ironer secured to the bottom of said first named leg, said pedal base being foldable upwardly adjacent said first named leg, said second named leg being foldable upwardly under said

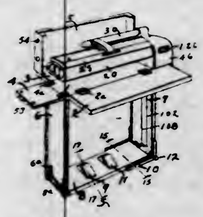


table top, and said table top while carrying said second named leg being foldable downwardly adjacent said pedal base and first named leg and onto said base for the ironer, latch means securing said pedal base and second named leg in folded position, and automatic release means for releasing said latch means by unfolding movement of said table top through more than ninety degrees from said folded position.

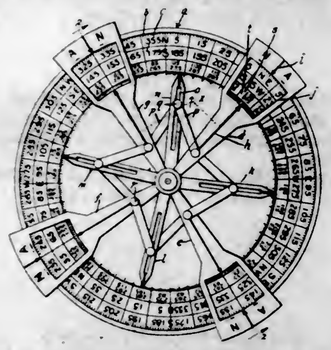
2,405,492
BASEBALL BASE
John P. Corbett, Van Nuys, Calif.
Application October 20, 1944, Serial No. 559,605
2 Claims. (Cl. 273—25)



1. In a baseball base, a substantially rigid shell comprising a top and side walls extending downwards from the edges thereof, releasable means for anchoring said shell accurately in predetermined position, a layer of cushioning material superimposed on said shell, a fabric cover disposed upon said layer of cushioning material and extending downward around the lower edges of said side walls, and releasable means contained within the hollow interior of said shell for fastening said cover upon said shell.

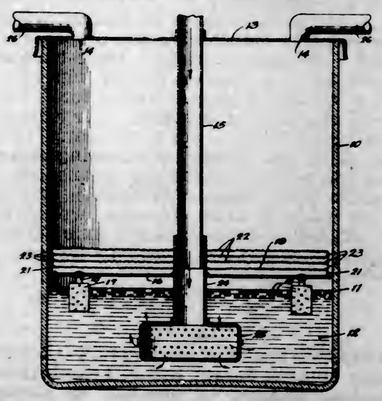
2,405,493
RADIO RANGE ORIENTATOR
John Dean, Harrisonburg, Va.
Application November 2, 1943, Serial No. 508,752
3 Claims. (Cl. 33—1)

1. Radio beam orientator comprising a disk having a circumferential scale of compass headings thereon, and plurality of beam heading indicating arms pivotally mounted on said disk concentric to said scale, independently movable and adapted to be set with reference to said scale to correspond to beam headings of a range station, derived from a map, bisector heading indicating arms intermediate said beam heading in-



dicating arms, independently pivoted concentric to said scale and movable in juxtaposition thereto, and means so interconnecting said bisector heading indicating arms to adjacent beam heading indicating arms as to maintain the bisecting relation of said bisector heading indicating arms with respect to the angles between said beam heading indicating arms.

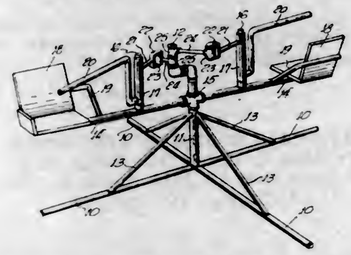
2,405,494
AIR TREATING APPARATUS
Charles F. J. Dupuy, Mahwah, N. J., assignor to O-Cedar Corp'n, Chicago, Ill., a corporation of Illinois
Application March 29, 1944, Serial No. 528,531
1 Claim. (Cl. 183—10)



Air treating apparatus comprising a tank adapted to contain a body of liquid, a pipe extending vertically downwardly into the tank and providing an inlet for air, outlet apertures in the top wall of the tank, a second pipe telescoping with said inlet pipe, a casing communicating with said last mentioned pipe and providing an air

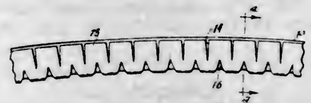
chamber below the surface of said liquid, said casing having openings therein to permit the escape of air into the body of liquid, a perforated plate fixed to said second pipe, float means for supporting said plate at a spaced distance above the liquid level, said plate substantially covering the distance between the walls of said tank, and a plurality of screens of finer mesh than the perforations of said plate and supported by said plate at spaced distance thereabove.

2,405,495
AMUSEMENT APPARATUS
Robert B. Franklin, Dallas, Tex., assignor to Playground Equipment Company
Application July 2, 1945, Serial No. 602,699
5 Claims. (Cl. 272—33)



1. A carousel comprising a base and a riser having an eccentric at its upper end, a seat carrying frame rotatably mounted on said riser, uprights on said frame in spaced relation to said riser and carrying means operated by occupants in the seats of said frame and cooperating with said eccentric for exerting a force tangent to said eccentric.

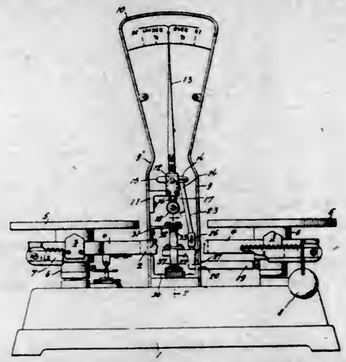
2,405,496
DRIVING BELT
Edward F. Gingras, Buffalo, N. Y.
Application April 22, 1942, Serial No. 440,003
1 Claim. (Cl. 74—233)



A driving belt comprising a pliable longitudinal continuous body having an outer side, an inner side and two lateral sides, and a pliable covering including two continuous side walls secured to the lateral sides of the body and each of these walls having its outer part provided with a longitudinal row of notches and having its inner part provided with a longitudinal row of notches, the lateral sides of said body being flush with the inner sides of said notches, the inner and outer notches of each wall being staggered relative to one another, and said notches containing no solid material and forming air pockets whereby the respective side edges of each of said notches are permitted to move freely toward and from each other and heating of the belt is minimized as the same passes on and off the grooved periphery of a pulley.

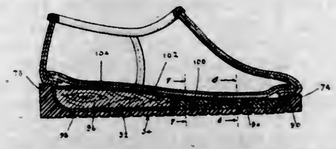
2,405,497
OVER AND UNDER SCALE
Adolph Goodman, Brooklyn, N. Y.
Application May 13, 1944, Serial No. 535,455
7 Claims. (Cl. 265—54)

1. In a scale having a base, a horizontal lever beam pivoted centrally on said base, platform supports pivotally secured to the free ends of said lever, platforms on said supports, and a weight indicator pivotally mounted on said base centrally between said platforms, the improvement which comprises an arm below said beam having one end secured to one of said supports and the other end extending to a point below



said indicator, an indicator actuating bar pivoted between said other end and said indicator, and a spring of S-shape in a vertical position and having its free ends secured to said base at vertically spaced points, said other end of said arm being fixed to the center of said S between said points, said spring being positioned below said indicator and between said supports.

2,405,498
SHOE SOLE
Jon Gregg, Flemington, N. J.
Application September 29, 1942, Serial No. 460,105
7 Claims. (Cl. 36—32)

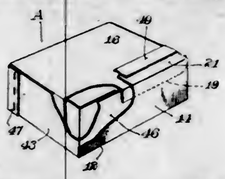


1. A shoe sole comprising a bottom wall, a peripheral side wall integral with said bottom wall and upstanding therefrom completely thereabout, said peripheral side wall being deeper at its rear part than at its forward part, and inwardly extending lips integral with said side wall at the upper edge thereof and extending longitudinally of the sole at opposite sides of the sole, the front and rear transversely extending end portions of said peripheral wall being thicker than the side portion of said wall, the opposite ends of said lips terminating at the inner surfaces of said end portions, respectively, of said peripheral wall, and the upper surfaces of said end portions of said peripheral wall being flush with the upper surfaces of said lips.

2,405,499
CONTAINER FOR FROZEN FOODS
Reynolds Guyer and Russell J. Hennessey, St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application September 11, 1943, Serial No. 501,998
3 Claims. (Cl. 229—16)

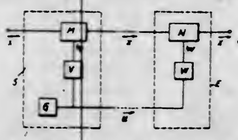
1. A container comprising a series of four panels foldably connected together, one of said panels

forming a carton bottom wall, end walls foldably connected along opposite edges thereof, flaps on opposed edges of said end walls, each end wall and its flaps forming a U-shaped wall when erected on said bottom wall, said end walls and flaps being of similar height a separate reinforcing sleeve arranged to fit closely about said



U-shaped walls, two of the remaining panels of said series being arranged to lie outwardly of said sleeve to form outer side walls, the remaining panel forming a top cover for the container, and opposed flaps on said top panel engageable between said reinforcing sleeve and said end walls.

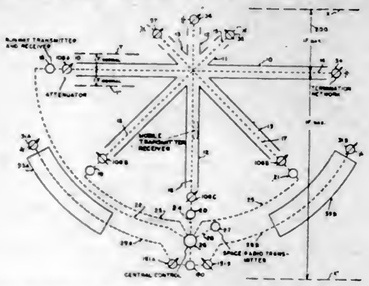
2,405,500
MEANS FOR AND METHOD OF SECRET SIGNALING
Gustav Guanella, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York
Application February 26, 1944, Serial No. 524,079
In Switzerland January 29, 1942
20 Claims. (Cl. 179—1.5)



1. In a method of secret signaling, the steps of transmitting a variable control signal together with a message from a transmitting to a receiving station, equally converting said control signal at both said transmitting and receiving stations into scrambling and unscrambling signals, respectively, having predetermined complex characteristics, and utilizing the converted signals to control the scrambling and unscrambling of said message, respectively.

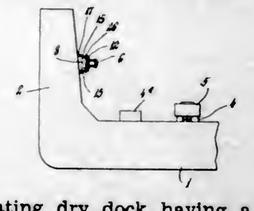
2,405,501
SIGNALING SYSTEM
William S. Halstead, Huntington, and Benjamin C. Lord, Valley Stream, N. Y., assignors, by mesne assignments, to Farnsworth Television & Radio Corporation, Fort Wayne, Ind., a corporation of Delaware
Application September 16, 1943, Serial No. 502,626
24 Claims. (Cl. 179—2)

1. An electrical signaling system for communicating intelligence to and from mobile units in a plurality of traffic zones from a single control point, comprising an electronic transmitter and receiver for each of said traffic zones, a plurality of separate transmission lines one disposed along each individual one of said traffic zones and individual thereto, each one of said transmission lines being connected directly to its respective electronic transmitter and receiver, all said transmitters being controllable from said single control point, a central control unit disposed at said single control point, metallic conductors connecting each of said traffic zone electronic transmitters separately to the central control unit, and switching means positioned wholly at the central control unit for selectively completely connecting one or more of said electronic trans-



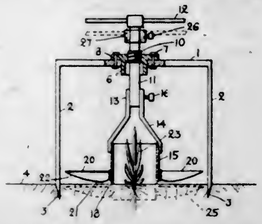
mitters directly with the central control unit, and independently of any other transmitter or any switching device not so positioned.

2,405,502
HYDRAULIC SHOCK ABSORBER
Frederic R. Harris, New York, N. Y.
Application June 16, 1944, Serial No. 540,565
15 Claims. (Cl. 114—45)



1. A floating dry dock having a hull and a wall at each side of said hull, hydraulic shock-absorbing units mounted on the inner faces of said walls, and hydraulic shock-absorbing units on the deck of said hull between said walls, each of said units comprising an open cylinder and a piston therein of a diameter small enough to permit water in the cylinder to flow past the piston.

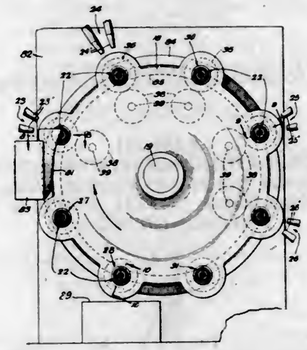
2,405,503
CULTIVATING IMPLEMENT
Dudley L. Hill, Peekskill, N. Y.
Application August 29, 1944, Serial No. 551,664
2 Claims. (Cl. 97—60)



1. A cultivating implement comprising a shaft; means to support the shaft for rotation in a vertical position; a tubular member open at both ends adjustably supported at the lower end of the shaft; blades extending outwards from the lower portion of the tubular member and having cutting edges inclined downwards in a direction of their movement when the shaft is rotated in a corresponding direction, the upper edges of the blades being substantially in the same plane, the tubular member being arranged to be placed on

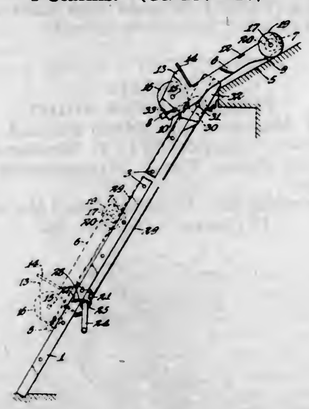
the ground around a plant to be cultivated; and threaded engagement between the shaft and the supporting means to move the shaft axially in response to its rotation.

2,405,504
GLASSWORKING APPARATUS
James W. Juvinall, La Grange Park, and George Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 15, 1943, Serial No. 502,412
8 Claims. (Cl. 49—2)



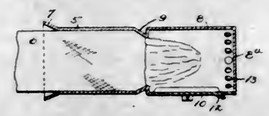
1. In an apparatus for fusing a glass sleeve on a wire, wherein a glass sleeve is slidably positioned on a wire, means in holding engagement with the wire, means operatively engaging the sleeve for moving it on the wire to a predetermined position, a heater adjacent the sleeve, and means operatively engaging the holding means to carry the sleeve in its said predetermined position on the wire within the influence of the heater.

2,405,505
LADDER HOIST
Albert J. Kleidon, New Brighton, Minn.
Application July 5, 1945, Serial No. 603,298
4 Claims. (Cl. 187—10)



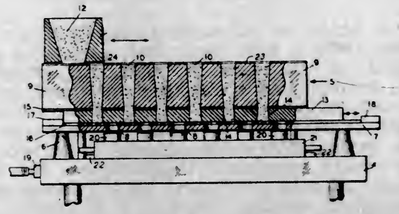
1. In combination with a ladder having parallel side rails, a load carrying truck, said truck comprising elongated parallel side frame members spaced apart a distance greater than the distance between the side rails of said ladder, transverse front and rear connecting members, a pair of spaced wheels journalled to the rear ends of said side frame members and adapted to ride on the side rails of said ladder, a pair of wheels journalled to the front ends of said side frame members and adapted to ride on the rails of said ladder, and a pair of wheels also journalled to the front ends of said side frame members and positioned laterally outwardly therefrom, the diameter of said last mentioned pair of wheels being considerably greater than the diameter of the other pair of front wheels.

2,405,506
CIGARETTE LIGHT CONCEALER
Mumzelle Lamarza Green-ee, San Antonio, Tex.
Application July 21, 1944, Serial No. 545,993
2 Claims. (Cl. 131—174)



1. An article for concealing the glow of a cigarette consisting of a tubular member comprising a tubular part adapted to fit frictionally upon the end of a cigarette and another part constituting an ash receiving chamber provided with openings in its side walls adjacent its forward end for the entry of air, and having a closed forward end wall, said tubular part and said ash receiving chamber being united by a constricted part which limits the entrance of a cigarette thereinto, said constricted part being tapered to constrict the end of the cigarette.

2,405,507
CHARGER FOR EXPLOSIVES
Edward K. Lefren, Port Ewen, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application November 21, 1942, Serial No. 466,391
3 Claims. (Cl. 222—197)

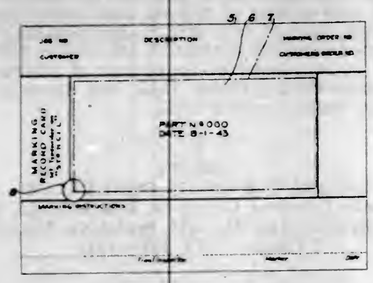


1. In a device for charging explosive containers with a fixed weight of explosive, the combination of a storage plate having a plurality of explosive receiving bins therein; a storage hopper slidable over said storage plate; a dump plate with a plurality of openings displaced from axial alignment with said bins; and a metering plate in close fitting slidable relationship between said storage and dump plates and a plurality of chambers in said metering plate alignable in registry with the receiving bins and dump plate openings.

2,405,508
ELECTROLYTIC STENCIL
Allen R. Lindsay, Cleveland Heights, Ohio
Application August 31, 1943, Serial No. 500,687
2 Claims. (Cl. 101—128.2)

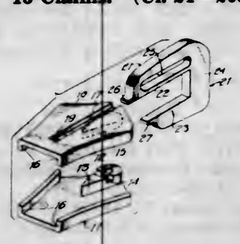
1. A stencil for use in electro-etching metal surfaces comprising a thin carrier web coated

with an acid resistant dielectric film, a card of paper or the like to which said web is detachably secured along one edge, a sheet of carbon paper or the like interposed between said card and web



also detachably secured to said card along one edge, said web being composed of a felted material having long fibres and having a nitrocellulose covering thereon and an electrolyte resistant coating covering said nitrocellulose coating.

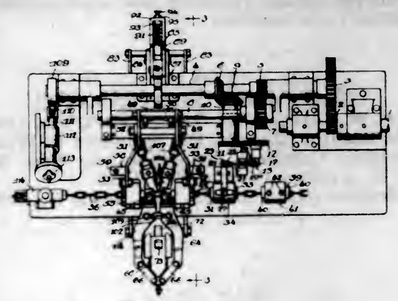
2,405,509
SLIDER FOR SEPARABLE FASTENERS
Davis Marinsky, New York, N. Y., assignor of one-half to Louis H. Morin, Bronx, N. Y.
Application August 20, 1943, Serial No. 499,363
15 Claims. (Cl. 24—205)



1. A slider for separable fasteners comprising separate upper and lower wall parts, the inner surfaces of said parts provided with upstanding web portions having abutting faces and spacing the wall parts a distance equal to the combined height of said web portions, the said abutting faces having interlocking means to prevent relative rotary movement therebetween, the outer surfaces of said wall parts having longitudinal, open-ended recesses therein, a U-shaped yoke member having its arms spaced and adapted to telescope over the wall parts in engagement with said recesses, and the free ends of said arms having portions adapted to be clamped to the yoke member against withdrawal from the wall parts.

2,405,510
ELECTRIC WELDING APPARATUS
Daniel C. Maytag, Laurel, Iowa
Application April 3, 1943, Serial No. 481,714
6 Claims. (Cl. 219—5)

2. In an electrical welding apparatus for welding successive links of a chain, a pair of gripping members each provided with a recessed jaw at one end for gripping and retaining each link of the chain in position for welding and applying a predetermined and controlled pressure to the links during the welding operation and pivotally connected adjacent their other end, and an adjustable connection between the forward ends of the gripping members for adjusting said gripping



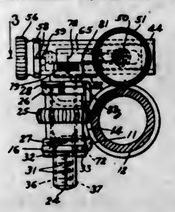
members to accommodate links of varying dimensions.

2,405,511
SELF-ADDRESSING ENVELOPE
Edwin Moen, New London, Conn.
Application March 22, 1944, Serial No. 527,555
1 Claim. (Cl. 282—25)



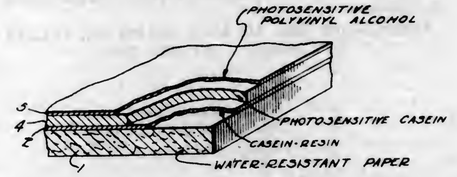
A self-addressing envelope comprising a letter envelope whose upper front sheet portion is provided with a designated space for incribing the sender's address thereon and whose flap is adjacent said upper front sheet portion; a carbon coating being provided on the rear of said upper front sheet portion opposite said designated space; a gummed sticker covering said carbon coating and having its upper portion, which is detachably secured to its main portion by means of a row of perforations, attached to the inner side of said envelope front sheet; and a thin sheet adapted to cover the gummed side of said sticker being with its upper portion attached to a portion of said envelope flap which is adjacent the crease formed by said flap and said front sheet, all substantially as described.

2,405,512
FIREARM REAR SIGHT
Harold F. Mossberg and Edwin Bullard, New Haven, Conn., assignors to O. F. Mossberg & Sons, Inc., New Haven, Conn., a corporation of Connecticut
Application July 13, 1943, Serial No. 494,546
12 Claims. (Cl. 33—56)



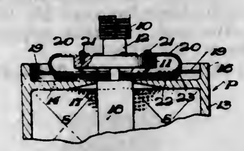
1. In a firearm sight, a base adapted to be secured to a firearm, a sighting member holding frame, a threaded spindle carried by said base and rotatably mounted therein, rotatable means engaging said base and threadingly engaging said spindle to elevate the spindle when rotated, said frame being carried by said spindle, resilient releasable means engaging said spindle to prevent said spindle from rotating in respect to said base when said rotatable means is rotated to elevate said spindle, and means acted upon by said resilient releasable means to engage said rotatable means to hold it from rotating when said spindle is rotated.

2,405,513
PHOTOGRAVURE PRINTING PLATE
William G. Mullen, Winchester, Mass., assignor to Lithomat Corporation, Boston, Mass., a corporation of Massachusetts
Original application June 22, 1942, Serial No. 447,887. Divided and this application December 16, 1944, Serial No. 568,457
1 Claim. (Cl. 95—8)



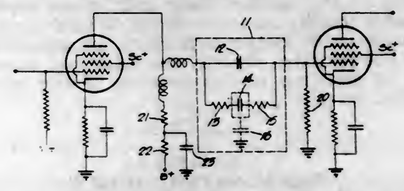
A photogravure printing plate comprising a substantially water-resistant paper base, a relatively heavy photosensitive casein coating on said base, and a relatively thin layer of photosensitive polyvinyl alcohol on said casein coating, the character of the polyvinyl alcohol layer being such that when selected areas thereof are exposed, said areas become grease-receptive and water-insoluble while the unexposed areas remain water-soluble, and the thickness and character of said casein coating being such that unexposed areas thereof are capable of swelling to a level above that of the grease-receptive areas when said plate is treated with water.

2,405,514
CARBON PILE VOLTAGE REGULATOR
William G. Neild, Warren Point, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application March 8, 1944, Serial No. 525,585
4 Claims. (Cl. 201—51)



1. In a carbon pile electric regulator including a carbon pile and a magnetic pot having a top surrounded by a peripheral flange, an armature assembly for regulating said carbon pile, comprising an armature, a base plate of circular shape positioned within said peripheral flange and adjacent said top and flange, a series of tongue portions formed integral with said plate and projecting therefrom in a U-shaped formation, said U-shaped tongue portions extending radially inward of said base plate and having the free ends thereof fastened to said armature so as to flexibly support said armature relative to said carbon pile and magnetic pot.

2,405,515
AMPLIFIER COUPLING DEVICE
Ahmet H. Neyzi, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 23, 1944, Serial No. 555,559
3 Claims. (Cl. 250—16)



1. A self-contained electrical coupling unit comprising a pair of spaced elements composed of high resistance material, a first condenser bridging the gap between said elements, a pair of lead wires each connected individually to a plate of said condenser and forming the terminals thereof, said lead wires each contacting one of said elements individually and projecting outwardly therefrom, and a tubular wound condenser having a pair of plates, one of said spaced elements being inserted in one end of the bore of said tubular condenser and in contact with one only of the plates thereof, the other of said spaced elements being inserted in the other end of the bore of said tubular condenser and in contact with the other only of the plates thereof.

2,405,516
ISOMERIZATION OF SATURATED HYDROCARBONS
Herman Pines, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 30, 1943, Serial No. 504,459
7 Claims. (Cl. 260—683.5)

1. A process for isomerizing an isomerizable saturated hydrocarbon which comprises subjecting said hydrocarbon to contact with an isomerizing catalyst of the Friedel-Crafts type in the presence of a minor amount of a mono-cyclic aromatic hydrocarbon having more than 8 carbon atoms.

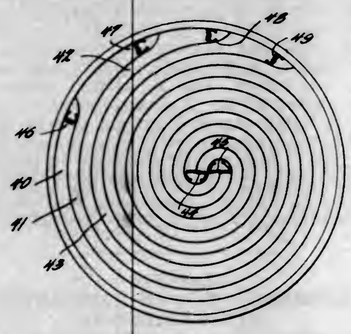
2,405,517
BOTTLE CARRIER
Walter D. Plummer, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application January 1, 1945, Serial No. 570,889
1 Claim. (Cl. 224—45)



A bottle carrier comprising a rectangular sheet of flexible material forming the body of a carrier, and strips of such material sewed to one face of the sheet by seams extending along the end edges of said sheet, and seams at intervals

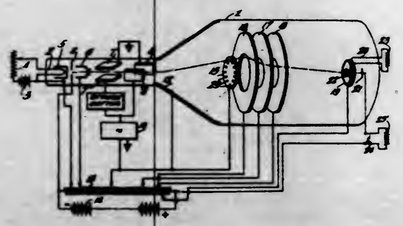
along said strips extending lengthwise of said sheet and dividing the strips into individual pockets, and a handle attached to said face substantially midway between the ends thereof, whereby when the carrier is lifted by the said handle, the sheet is doubled downward and the pockets brought to upright position in rows on the outer faces of the carrier body, said strips being of greater length than the width of said body and provided with folds intermediate the seams forming the pockets, whereby the latter are expansible to conform to the contour of the articles placed therein.

2,405,518
ILLUMINATING DEVICE
Igor B. Polevitzky, Miami, Fla.
Application November 14, 1945, Serial No. 628,516
6 Claims. (Cl. 176—122)



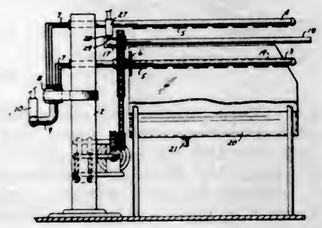
5. An illuminating device comprising a metal housing, having a substantially flat bottom wall and a substantially flat transparent cover plate, a convolute metal partition in said housing providing a spiral passage therein extending from substantially the center to the periphery of the housing, the partition extending from the bottom wall to the cover plate, said housing and partition being coated by an insulating enamel, thermionic electrodes mounted in the housing at each end of said passage, lead-ins for the electrodes, and a suitable gas filling said housing and providing a discharge path therein serving as a source of illumination.

2,405,519
FREQUENCY MULTIPLIER
Jan A. Rajchman, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1942, Serial No. 441,168
2 Claims. (Cl. 315—5)



1. A signal frequency multiplier including a cathode ray device having means for generating an electron beam, an electrode having a plurality of apertures in the path of said beam, beam deflecting means responsive to said signal for scanning said apertures, a relatively small target electrode, a cavity resonator disposed between said apertured electrode and said target electrode, means for converging and directing said beam from said apertured electrode through said cavity resonator to said target electrode, means for deriving energy from said cavity resonator in the form of alternating currents, and additional means for simultaneously deriving energy from said target electrode in the form of pulsating direct currents.

2,405,520
DEVICE FOR IMPREGNATING FILAMENTARY PACKAGES WITH LIQUIDS
Arthur B. Richardson and Donald C. Thompson, Roanoke, Va., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 16, 1942, Serial No. 443,314
11 Claims. (Cl. 68—206)



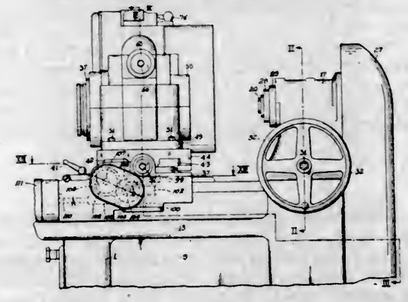
1. A device for treating wound cakes of filamentary material comprising a longitudinal member supported adjacent one end only, a single socketed element mounted for rotation about said member adjacent the supported end thereof, and a portable carrier for said cakes consisting essentially of a substantially straight rod insertable into and removable from the socket for loading and unloading the device.

2,405,521
WEB OF STRETCHABLE MATERIAL AND BAG MADE THEREFROM
William Wallace Rowe, Cincinnati, Ohio, assignor to Cincinnati Industries, Inc.
Original application January 25, 1937, Serial No. 122,172. Divided and this application August 3, 1940, Serial No. 350,947
14 Claims. (Cl. 229—55)



1. A web of material stretchable on its longitudinal and lateral axes and comprising a plurality of layers of stretchable paper, said paper characterized by a single set of lines of rugosities imparting the stretchability thereto, said lines being located aslant to said axes, and the said lines being oppositely disposed in at least two of said layers.

2,405,522
MACHINE TOOL
Charles H. Schurr, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a corporation of Ohio
Application April 1, 1942, Serial No. 437,112
17 Claims. (Cl. 90—11.62)



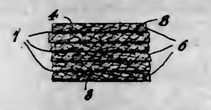
2. A machine tool comprising two independently rotatable spindles, driving means connected to one of said spindles, separate driving means connected to the other spindle, feed means capable of relatively moving the spindles actuated by said second driving means, disengageable positive power transmission mechanism between the second mentioned driving means and the second mentioned spindle, a second disengageable power transmission mechanism capable of transmitting motion at a different rate of speed between the second mentioned driving means and the second mentioned spindle, and means for selectively alternately engaging said power transmission mechanisms.

2,405,523
LIGHT-SENSITIVE PHOTOGRAPHIC COMPOSITIONS AND ELEMENTS
Virgil B. Sease and David W. Woodward, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 9, 1944, Serial No. 548,796
4 Claims. (Cl. 95—7)

1. A coating composition comprising a water-miscible organic solvent having dissolved therein a water-insoluble resinous polyvinyl acetate free from hydroxyl groups and having a water absorption of at least 10%, a light-sensitive diazonium salt, a diazo stabilizer, taken from the group consisting of water-soluble alkali metal nitrites, alkyl nitrites, and hydrocarbon phosphates, a diazo coupling component, and not more than 10% of water.

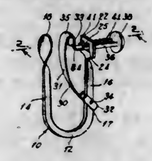
2,405,524
ABRASIVE ARTICLE AND METHOD OF MAKING
Donald B. Sharpe, North Tonawanda, and Richard A. Baumgartner, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application June 27, 1944, Serial No. 542,325
9 Claims. (Cl. 51—193)

1. An abrasive article of manufacture comprising a plurality of layers of abrasive-included felted, fibrous sheet material, the major portion of the abrasive content being distributed internally of the fibrous sheet material, said layers of fibrous sheet material being adhesively combined in superimposed relation by means of an adhesive binder comprising a phenolic resin



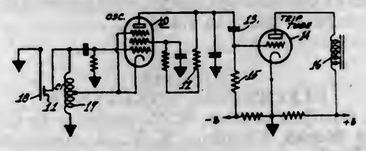
which is substantially non-penetrative of said fibrous sheet material.

2,405,525
EARRING
Monroe Sherman and Leonard Palliser, New York, N. Y.
Application October 23, 1943, Serial No. 507,442
10 Claims. (Cl. 63—14)



9. In a device of the character described, a U-member having a pair of opposing legs, an ear plate on one leg, an apertured plate on the other leg, a spring, one end of which is secured to the U-member, and the other end of which is biased to normally bear against and engage a margin of the aperture in the apertured plate, and means to disengage and shift the spring progressively back and forth with respect to the ear plate.

2,405,526
AUTOMATIC STOP FOR PHONOGRAPHS
Chester M. Sinnett, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 13, 1945, Serial No. 572,700
5 Claims. (Cl. 179—100.11)

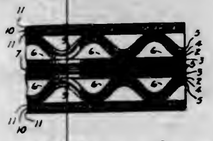


1. The combination of an oscillator including means responsive to movement of the tone arm of a phonograph for changing the frequency of said oscillator, means for moving said tone arm at slower and faster rates, and means responsive to said faster rate for changing a condition of said phonograph.

2,405,527
LAMINATED MATERIAL AND METHOD OF MAKING SAME
Max Skolnik, Chicago, Ill., assignor to Fibro-Mold Specialties, Inc., Chicago, Ill., a corporation of Illinois
Application November 6, 1942, Serial No. 464,709
8 Claims. (Cl. 154—28)

1. A rigid structural material comprising a plurality of corrugated fibrous webs, each of which has over a major portion of an outer surface thereof a coating of a meltable, flowable bituminous composition and directly superimposed thereon an adherent layer of a hardened, stone-like cement composition, a relatively flat facing sheet of fibrous material having at least one side

coated with a waterproofing material and a directly superimposed adherent coating of hardened cement composition, said facing being disposed between successive corrugated webs and



bonded to said corrugated webs so that adjacent corrugated webs are bonded together through at least one of said facings, whereby there is obtained a rigid structural material having a plurality of insulating air spaces.

2,405,528

METHOD OF FORMING SHAPED ARTICLES

Max Skolnik, Chicago, Ill., assignor to Fibro-Mold Specialties, Inc., Chicago, Ill., a corporation of Illinois

Application June 19, 1943, Serial No. 491,540

4 Claims. (Cl. 154—110)



1. A method of making formed articles which comprises applying a layer of a relatively hard-setting plastic composition containing magnesium oxychloride cement as a major binding ingredient over a fibrous material impregnated with a normally solid, high melting point bitumen composition, shaping the coated bitumen-impregnated fibrous material while said normally hard bitumen is heated to the relatively soft, deformable state, allowing said bitumen associated with said fibrous material to cool to harden and thus retain the fibrous material and said plastic composition in the desired shape, and permitting said plastic composition to harden.

2,405,529

ELECTRICAL CONDENSER

Gail P. Smith, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application March 3, 1944, Serial No. 524,896

2 Claims. (Cl. 175—41)



1. A condenser assembly comprising a pile up of sheets of fusible dielectric material in the form of film with metallic elements in the form of foil arranged between and having portions overlapped by the respective sheets, said sheets being in intimate contact with said elements and being fused to one another in those portions which overlap said elements, at least one of said elements being branched and exposed near the unbranched end by the overlying sheet with means holding transverse sections of the exposed portions of the branches separated from the underlying sheet of dielectric material whereby such sections are free for removal from the adjoining fused on portions of the branches.

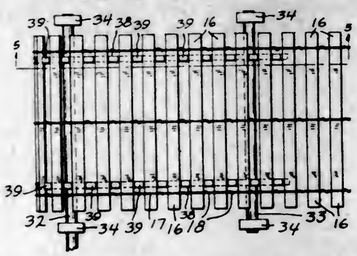
2,405,530

CONVEYER CONSTRUCTION

John O. Sullivan, Sioux City, Iowa

Application August 28, 1943, Serial No. 500,344

2 Claims. (Cl. 198—195)



1. A conveyer system comprising a plurality of spaced slats, wire members between which said slats are interwoven for supporting and spacing the same, a pair of chain drives, said chain drives being spaced apart laterally with respect to the conveyer, said chain drives including a substantial plurality of lugs attached thereto, said lugs received between said spaced slats and adapted to abut directly against the same for forcible conveying movement thereof, sprockets for driving said chains, means for driving at least one of said sprockets.

2,405,531

COPPER BASE ALLOYS

John Sykes, Enfield, England, assignor to Enfield Rolling Mills Limited, Enfield, England, a company of Great Britain

No Drawing. Application July 19, 1944, Serial No. 545,719. In Great Britain August 26, 1943

2 Claims. (Cl. 75—153)

2. A heat treatable copper base alloy consisting of from 0.4% to 1% chromium, from 0.15% to 0.25% zinc, from 0.05% to 0.5% sulphur and the balance copper.

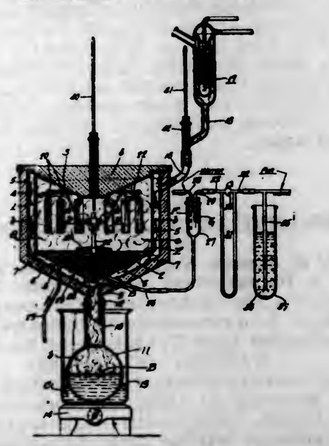
2,405,532

CORROSION TESTING APPARATUS

Floyd Todd, Drexel Hill, Pa., assignor to Quaker Chemical Products Corporation, Conshohocken, Pa., a corporation of Pennsylvania

Application April 6, 1943, Serial No. 482,006

16 Claims. (Cl. 73—86)



1. A corrosion testing apparatus, comprising a closed walled test chamber, means for freely

suspending test specimens in said chamber, means in the form of a shell spaced from and completely surrounding a major portion of the exterior of said walled chamber and adapted to retain a vaporized heating medium in contact with said major portion of said chamber, an insulated removable cover enclosing the remaining portion of said chamber, means for supplying said medium to the space between said walled chamber and said shell for heating the walls of said chamber uniformly to a predetermined temperature, and means for supplying a corrosion-producing medium to the interior of said chamber for contact with and complete external envelopment of the test specimens arranged therein.

2,405,533

TRACK STRUCTURE FOR MODEL RAILWAYS

Gordon Varney, Chicago, Ill.

Application November 30, 1944, Serial No. 565,949

11 Claims. (Cl. 238—10)



1. As an article of manufacture, a tie structure for a model railway comprising a plurality of substantially parallel spaced ties and interconnecting means holding the same in longitudinally spaced relation, said ties having preformed pairs of upstanding locking elements thereon adapted for engagement with a model rail to lock the same on the tie, the elements of each pair being spaced in the direction of length of the tie for ultimate reception of a rail therebetween, said ties and locking elements being integrally molded of thermoplastic material which is thermally fusible and moldable under moderate molding temperature and manual pressure, but comparatively rigid under normal room conditions, the locking elements being moldable under heat and moderate pressure inwardly toward a rail placed therebetween and downwardly into uniform locking engagement with the latter.

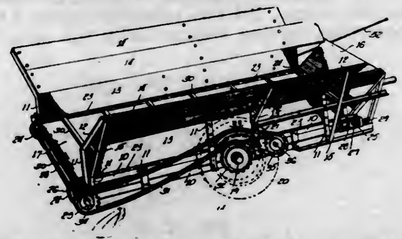
2,405,534

BALE LOADING AND UNLOADING WAGON

Anthony Voth, Gainesville, Tex.

Application March 6, 1945, Serial No. 581,237

1 Claim. (Cl. 214—83)



In an unloading trailer for baled hay, the combination comprising a frame consisting of spaced apart pairs of angle irons supporting a floor, an axle on said frame having wheels freely mounted thereon, a transverse shaft at each end of said frame, one of which is axially adjustable with respect to the other, sprockets on each end of each of said shafts, endless chains operating over said sprockets and guided by said angle irons, cleats extending between said chains and slidable over said floor longitudinally thereof, auxiliary sprockets carried by the rearmost of said transverse shafts and said axle, the latter being fixed to said axle, an idler sprocket forwardly of said axle, a chain operating over said first auxiliary sprocket and said idler sprocket whose lower lead is in engagement with said axle sprocket, means for locking one of said wheels with said axle to rotate said axle sprocket to operate said endless chains through said latter chain in a direction counter to the normal direction of travel of said trailer, a lever pivotally attached to said trailer adjacent said locking means for actuating the same and means secured to said lever and extending forwardly and beyond said trailer for operating said lever.

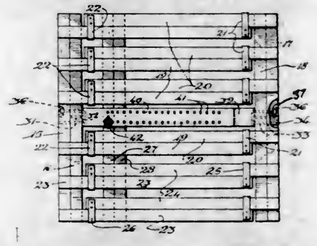
2,405,535

ADJUSTABLE PALLET

Le Roy Weiss, Chicago, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware

Application August 24, 1944, Serial No. 551,037

12 Claims. (Cl. 248—120)



1. In an adjustable pallet, the combination of two runners side by side in spaced relation to each other, a set of cross bars in spaced relation to each other secured to one of said runners and extending toward the other runner, a second set of cross bars in correspondingly spaced relation to each other secured to said other runner and extending toward said one runner, and means slidably connecting said cross bars in pairs comprising U-clips carried by the several cross bars with the clip of each cross bar extending about the other cross bar of the same pair so as to make the pallet adjustable in size longitudinally of the cross bars.

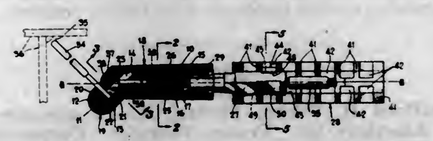
2,405,536

ELECTRODE HOLDER

Martin Wells, Los Angeles, Calif.

Application May 20, 1943, Serial No. 487,681

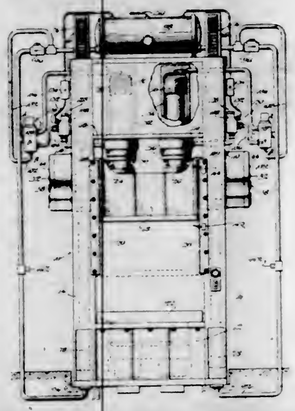
10 Claims. (Cl. 219—8)



1. In an electrode holder of the class described, the combination of: a metal body having a rod opening leading in from the face thereof, and a second opening leading into said body to meet said rod opening; operable means acting within said second opening to pressurally engage the end of a rod inserted in said rod opening and thereby grip said rod; replaceable insulator means comprising a cup of insulating material slidable onto said body from the front end thereof, said cup having therein an opening defined by a wall surrounding the mouth of said rod opening to guard

said rod opening from entry of splatter thereinto: yieldable holding means within said cup providing an engagement operative between said cup and said body to hold said cup on said body; a handle connected to said body; and means for connecting an electric conductor to said body.

2,405,537
PUNCH PRESS
Herbert B. Werner and John Verson, Chicago, Ill., assignors to Verson Allsteel Press Company, Chicago, Ill., a corporation of Delaware
Application March 19, 1943, Serial No. 479,694
14 Claims. (Cl. 60—54.5)

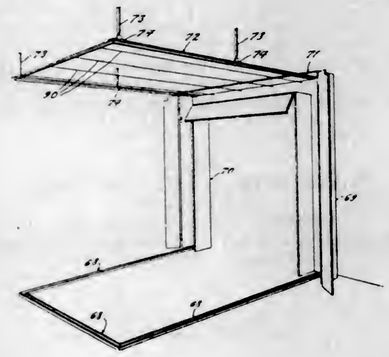


1. In a punch press comprised of a frame, a slide reciprocable in the frame, and hydraulic cylinder and piston means for reciprocating said slide, a source of fluid under low pressure, means for connecting said low pressure source to said hydraulic cylinder and piston means so that pressure will be applied therefrom to operate said hydraulic cylinder and piston means to drive said slide during the initial phase of its downward stroke, a hydraulic pressure means for operating said hydraulic cylinder and piston means under high pressure comprising a rotatable flywheel, means for rotating said flywheel, a rotatable shaft, clutch means for connecting said flywheel to said shaft, means driven from said shaft for compressing fluid and for passing the compressed fluid to said hydraulic cylinder and piston means during the work phase of the downward stroke of said slide, and means for connecting said low pressure source to said fluid compressing means to return it to initial position.

2,405,538
FOAM GENERATION
Clifford B. White, Elmira, N. Y., assignor to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York
No Drawing. Application June 26, 1943, Serial No. 492,651
5 Claims. (Cl. 252—6.5)

1. As a new composition of matter, a foam generator powder mixture containing in combination with dry foam-generating reagents, in reacting proportions, a stabilizer, and between 4% and 12% of fine-textured particles of a water-insoluble substance selected from the group which consists of carboxylated, saturated long-chain aliphatic hydrocarbons having more than six and not more than eighteen carbon atoms.

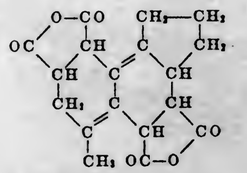
2,405,539
ENCLOSURE
Charles C. Willis, Bound Brook, N. J., assignor to Crown Fastener Corporation, Warren, R. I., a corporation of Delaware
Application March 2, 1945, Serial No. 580,669
18 Claims. (Cl. 135—5)



9. In a structure of the kind described, the combination of an overhead member surrounding the area to be enclosed; a fastener stringer secured to said member and a curtain having a cooperating fastener stringer secured to the upper edge thereof; means for suspending the curtain from said overhead member; and slider means operable to couple and uncouple the said stringers while the curtain is suspended by the said means.

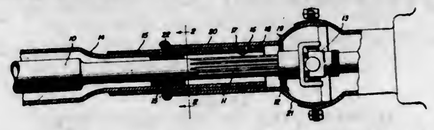
2,405,540
NONBENZENOID COMPOUNDS
Lewis W. Butz, Beltsville, Md., assignor to the United States of America, as represented by the Secretary of Agriculture
No Drawing. Original application December 12, 1942, Serial No. 468,795. Divided and this application July 10, 1945, Serial No. 604,289
1 Claim. (Cl. 260—344.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The 1 - methyl-5,6-propano-2,3,4,6,7,8-hexahydronaphthalene - 3,4,7,8 - tetracarboxylic-3,4;7,8-dianhydride, having substantially the structure:



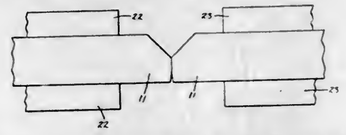
2,405,541
METHOD AND APPARATUS FOR REPAIRING PROPELLER SHAFT HOUSINGS
Theodore C. Gerner, Oklahoma City, Okla.
Application March 18, 1946, Serial No. 655,315
19 Claims. (Cl. 64—3)

1. A method of repairing a propeller shaft housing which has become worn at its junction with its universal joint bell housing, which includes removing the worn bell housing, fastening an enlarged external bearing surface upon and embracing the warm portion of said propeller shaft



housing about its entire circumference, and fitting an oversize bell housing on said bearing surface.

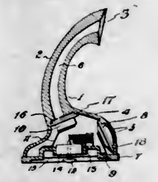
2,405,542
FUSION WELDING
Frank A. Wassell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 13, 1943, Serial No. 502,091
12 Claims. (Cl. 219—10)



1. The method of fusion welding metallic parts having joining edges about ⅛ inch thick which when molten assume large globular formations whose surfaces do not readily intermingle to form a weld, said method comprising preparing said joining edges of said parts and positioning said parts relatively to one another so that the top edge portions of said joining edges of said parts make a good contact with one another along their lengths and so that when said top edge portions of said joining edges are in contact with one another their bottom edge portions are sufficiently spaced from one another along their lengths by an outwardly opening gap which separates the bottom edge portions of said joining edges of said parts by an amount sufficient to permit said joining edges of said parts to drop down and away from one another without coming into contact with one another when rendered molten during welding, supporting said parts with their said joining edges in contact with one another and so that their bottom edge portions at said joining edges are free to drop down when rendered molten, progressively applying heat lengthwise of the top edge portions of said joining edges of said parts to render said joining edges sufficiently molten to drop down and away from one another and form a gap between said parts, and as said joining edges of said parts become molten and drop down and away from one another supplying molten filler material in sufficient quantity to fill the gap formed between said parts at said molten joining edges and thereby complete a weld between said parts.

2,405,543
TELEPHONE SET
Knut Hugo Blomberg, New York, N. Y., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden
Application December 30, 1942, Serial No. 470,625
4 Claims. (Cl. 179—103)

1. In a telephone instrument of the hand set type, a base plate, a receiver and a transmitter attached to said base plate, a body separate from the base plate forming an enclosure for and electrically independent of the receiver and transmitter and constituting the handle, the ear piece and mouth piece of the instrument, said body having

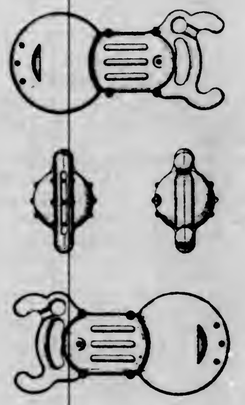


sound passages related with the receiver and the transmitter.

DESIGNS

AUGUST 6, 1946

145,346
DESIGN FOR A PORTABLE POWER-DRIVEN HAND TOOL UNIT
Fred E. Anderson, Sheridan, Oreg.
Application March 19, 1945, Serial No. 118,590
Term of patent 14 years
(Cl. D54—14)



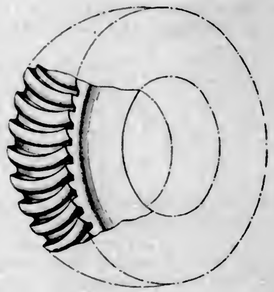
The ornamental design for a portable power-driven hand tool unit, as shown.

145,347
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application January 12, 1946, Serial No. 125,488
Term of patent 7 years
(Cl. D92—1)



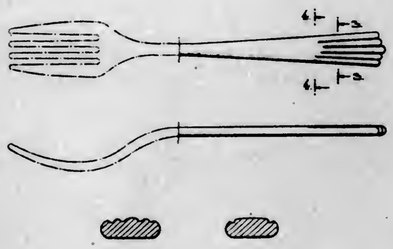
The ornamental design for a liturgical fabric or similar article, substantially as shown and described.

145,348
DESIGN FOR AN AIRCRAFT TIRE
Charles A. Bigelow, Houston, Tex.
Application November 19, 1945, Serial No. 123,864
Term of patent 14 years
(Cl. D90—20)



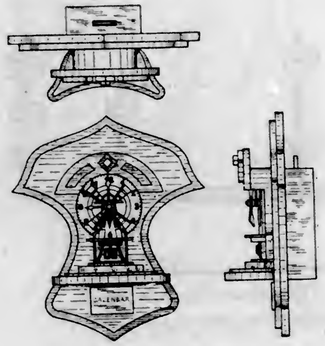
The ornamental design for an aircraft tire, substantially as shown and described.

145,349
DESIGN FOR A FORK OR SIMILAR ARTICLE
Joseph Brunetti, Carlstadt, N. J., assignor to Plastic Art Toy Corporation of America, Rutherford, N. J., a corporation of New Jersey
Application February 16, 1946, Serial No. 126,628
Term of patent 7 years
(Cl. D54—12)



The ornamental design for a fork or similar article, substantially as shown.

145,350
DESIGN FOR A COMBINED WALL CLOCK, MONEY BANK, AND CALENDAR
Leonard D. Cherneff, Seattle, Wash.
Application November 13, 1945, Serial No. 123,719
Term of patent 14 years
(Cl. D74—5)



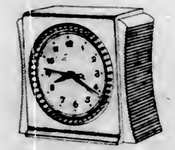
The ornamental design for a combined wall clock, money bank, and calendar, as shown and described.

145,351
DESIGN FOR AN ALARM CLOCK
Francesco Collura, New York, N. Y., assignor to Telechron Inc., a corporation of Maine
Application January 21, 1946, Serial No. 125,802
Term of patent 7 years
(Cl. D42—7)



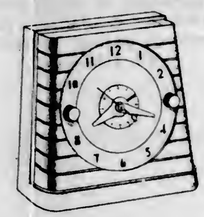
The ornamental design for an alarm clock, as shown.

145,352
DESIGN FOR A CLOCK OR SIMILAR ARTICLE
Francesco Collura, New York, N. Y., assignor to Telechron Inc., a corporation of Maine
Application January 21, 1946, Serial No. 125,804
Term of patent 7 years
(Cl. D42—7)



The ornamental design for a clock or similar article, as shown.

145,353
DESIGN FOR AN ALARM CLOCK
Francesco Collura, New York, N. Y., assignor to Telechron Inc., a corporation of Maine
Application January 21, 1946, Serial No. 125,805
Term of patent 7 years
(Cl. D42—7)



The ornamental design for an alarm clock, as shown.

145,354
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Alice Veronica Corso, New York, N. Y.
Application March 30, 1946, Serial No. 128,110
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a tablecloth or similar article, substantially as shown and described.

145,355
DESIGN FOR A BRACELET LINK OR SIMILAR ARTICLE
Jack Dubinsky and Andrew Insko, Chicago, Ill.
Application January 12, 1946, Serial No. 125,494
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet link or similar article, as shown and described.

145,356
DESIGN FOR A BRACELET
Thomas Kelliher, Attleboro, Mass., assignor to American Metal Crafts Company, Attleboro, Mass., a corporation of Massachusetts
Application October 4, 1945, Serial No. 122,515
Term of patent 14 years
(Cl. D45—4)

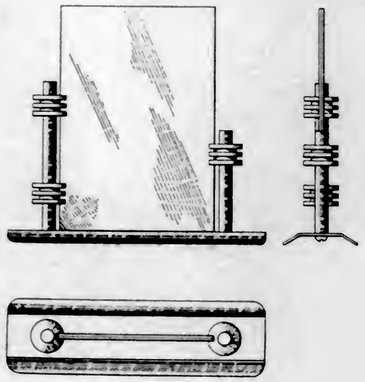
The ornamental design for a bracelet, as shown and described.

145,357
DESIGN FOR A WATCH BRACELET
Robert Lambert, Fullerton, Nebr.
Application January 11, 1946, Serial No. 125,450
Term of patent 7 years
(Cl. D45—4)



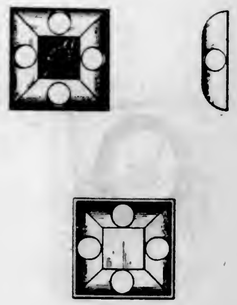
The ornamental design for a watch bracelet, as shown.

145,358
DESIGN FOR A PICTURE FRAME OR SIMILAR ARTICLE
Rudi W. Mandl, Long Island City, N. Y.
Application December 22, 1945, Serial No. 124,989
Term of patent 7 years
(Cl. D29—20)



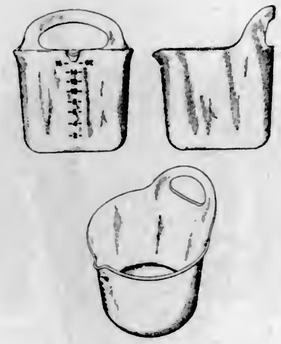
The ornamental design for a picture frame or similar article, as shown.

145,359
DESIGN FOR A PLASTIC UNIT FOR HANDBAGS OR THE LIKE
Alfred C. Manovill, New York, N. Y., assignor to Ideal Plastic Corporation, Long Island City, N. Y., a corporation of New York
Application April 19, 1946, Serial No. 128,768
Term of patent 3½ years
(Cl. D87—3)



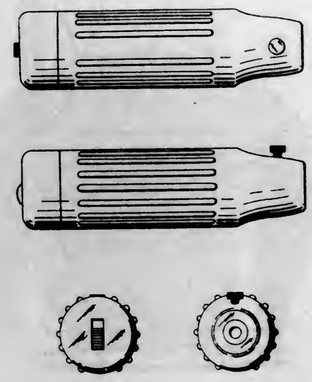
The ornamental design for a plastic unit for handbags or the like, substantially as shown.

145,360
DESIGN FOR A COSMETIC CUP
Claudia Martucci, San Francisco, Calif.
Application August 23, 1945, Serial No. 121,589
Term of patent 14 years
(Cl. D44—9)



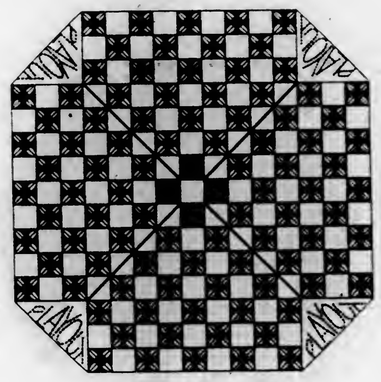
The ornamental design for a cosmetic cup, substantially as shown and described.

145,361
DESIGN FOR A WORK-ILLUMINATING TOOL
Robert S. Rains, Los Angeles, Calif., assignor to R-W Manufacturing Company, Los Angeles, Calif., a firm
Application June 15, 1945, Serial No. 120,118
Term of patent 3½ years
(Cl. D48—24)



The ornamental design for a work-illuminating tool, substantially as shown.

145,362
DESIGN FOR A GAME BOARD
Martin R. Rice, Birmingham, Ala.
Application March 5, 1945, Serial No. 118,283
Term of patent 14 years
(Cl. D34—5)



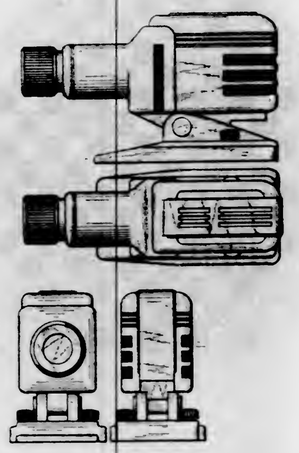
The ornamental design for a game board, as shown and described.

145,363
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Ludwig G. Rohner, New York, N. Y.
Application March 30, 1946, Serial No. 128,109
Term of patent 3½ years
(Cl. D92—26)



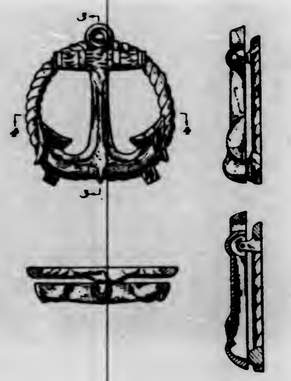
The ornamental design for a tablecloth or similar article, substantially as shown and described.

145,364
DESIGN FOR A SLIDE PROJECTOR
Lewis Jay Rubin, New York, N. Y., assignor to Universal Camera Corporation, New York, N. Y., a corporation of New York
Application October 10, 1945, Serial No. 122,721
Term of patent 14 years
(Cl. D61—1)



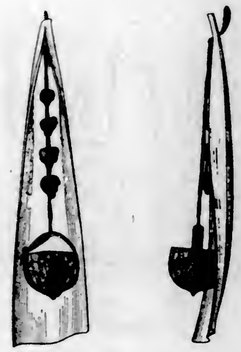
The ornamental design for a slide projector, as shown.

145,365
DESIGN FOR A DOOR KNOCKER
Joseph Stephens, Inglewood, Calif.
Application November 30, 1945, Serial No. 124,216
Term of patent 7 years
(Cl. D10—7)



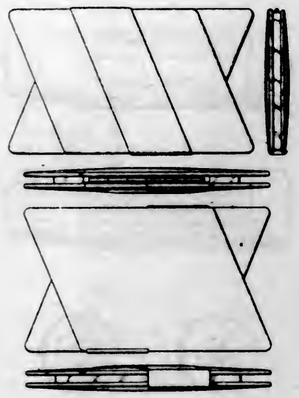
The ornamental design for a door knocker, as shown.

145,366
DESIGN FOR A HANGING FLOWER VASE
Frederick J. Stollsteimer, Miami Beach, Fla.
Application October 2, 1945, Serial No. 122,455
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a hanging flower vase, as shown.

145,367
DESIGN FOR A COMPACT
Jack Warren Thomsen, Chicago, Ill.
Application February 27, 1946, Serial No. 126,956
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a compact, as shown.

145,368
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,590
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

145,369
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,591
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

145,370
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,593
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

145,371
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,594
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

145,372
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,595
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

145,373
DESIGN FOR A SWEATER
Berté A. Wiechmann, Portland, Oreg., assignor to Jantzen Knitting Mills, a corporation of Oregon
Application March 16, 1946, Serial No. 127,596
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a sweater, substantially as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ace-Hi Hat Reducer Mfg. Co.: *See*—
Miller, Irving B.

Alan's Baking Co.: *See*—
Goldman, Maurice.

Allied American Steel Corporation, Chicago, Ill. Children's strollers. Serial No. 496,363; Aug. 6. Class 19.

Alpinol Corporation, New York, N. Y. Medicinal preparations. Serial No. 497,437; Aug. 6. Class 6.

American Decalcomania Company, Inc., Chicago, Ill. Decalcomanias. Serial No. 496,943; Aug. 6. Class 38.

Ampco Metal, Inc., Milwaukee, Wis. Electric terminals and contacts, trolley shoes, switch contacts, etc. Serial No. 479,323; Aug. 6. Class 21.

Associated Manufacturers: *See*—
Freyd, Paul R.

Baron Hartsough, Los Angeles, Calif. Electric speaker units. Serial No. 488,691; Aug. 6. Class 21.

Belgrade Fabrics, Inc., New York, N. Y. Synthetic rubber coated cotton textile fabrics. Serial No. 487,819; Aug. 6. Class 42.

Bic Manufacturing Corporation, New York, N. Y. Clothes line supports, clothes line tighteners, and clothes line pulleys. Serial No. 494,300; Aug. 6. Class 13.

Blue Ridge Manufacturers, Incorporated, Baltimore, Md. Overalls, work pants, dungarees, etc. Serial No. 494,424; Aug. 6. Class 39.

Bol, Ltd., New York, N. Y. Optical film viewing apparatus and optical apparatus for viewing printed matter. Serial No. 488,445; Aug. 6. Class 26.

Bol, Ltd., New York, N. Y. Printed and otherwise reproduced record cards. Serial No. 488,446; Aug. 6. Class 38.

Bromberg, Louis, Brooklyn, N. Y. Pianos. Serial No. 474,370; Aug. 6. Class 36.

Burnett, Lloyd, doing business as The Mill-Stream Sanitary & Pest Control Co., Cincinnati, Ohio. Insecticide. Serial No. 497,012; Aug. 6. Class 6.

Capsuto, Elias, doing business as Well-Maid Apron Co., Chicago, Ill. Aprons and women's dresses. Serial No. 493,653; Aug. 6. Class 39.

Casterline, Willard B., doing business as Dr. Quack Candy Co., Chicago, Ill. Candy. Serial No. 476,197; Aug. 6. Class 46.

Cellulo Company, The, Sandusky, Ohio. Filtermass. Serial No. 498,395; Aug. 6. Class 31.

Chemical Manufacturing & Distributing Company, Easton, Pa. Self-polishing waxes, floor, furniture, and automobile polishing waxes and furniture polishes. Serial No. 487,354; Aug. 6. Class 16.

Citrus Foods Co., Inc., La Habra, Calif. Frozen lemon juice. Serial No. 496,427; Aug. 6. Class 46.

Clark, J. S., Company, The, Detroit, Mich. Portable dust collectors. Serial No. 483,960; Aug. 6. Class 23.

Coaltoter Conveyer Co., Chicago, Ill. Portable power driven belt conveying apparatus. Serial No. 489,102; Aug. 6. Class 23.

Cogswell Company, New York, N. Y. Children's suits, dresses, playsuits, etc. Serial No. 493,658; Aug. 6. Class 39.

Commonwealth Plywood Company Limited, Ste. Therese, Quebec, Canada. Plywood. Serial No. 496,431; Aug. 6. Class 12.

Consolidated Cosmetics, Chicago, Ill. Powder puffs and clothes brushes. Serial No. 496,689; Aug. 6. Class 29.

Coro Inc., New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. Serial No. 483,422; Aug. 6. Class 28.

Coro, Inc. Finger rings, earrings, jewelry clips, etc. Serial No. 494,031; Aug. 6. Class 28.

Dandy Publishing Company, New York, N. Y. Publications containing cartoons and comics published from time to time. Serial No. 489,449; Aug. 6. Class 38.

Darby, Harry, doing business as Harry Darby, Manufacturer, Kansas City, Kans. Fire doors for buildings, metal doors, metal concrete forms, and penstocks. Serial No. 465,735; Aug. 6. Class 12.

Darby, Harry, Manufacturer: *See*—
Darby, Harry.

Didisheim, Goldschmidt Fils et Cie, Fabrique Juvenia, La Chaux-de-Fonds, Switzerland. Watches, watch parts, clocks, etc. Serial No. 494,313; Aug. 6. Class 27.

Donahey, John W., Hudson, Ohio. Trailers. Serial No. 494,892; Aug. 6. Class 19.

Dr. Quack Candy Co.: *See*—
Casterline, Willard B.

Dossert Mfg. Corp., Brooklyn, N. Y. Electrical lug connectors. Serial No. 494,662; Aug. 6. Class 21.

Dromona & Maine Limited, Cullybackey, Northern Ireland. Cotton and linen piece goods. Serial No. 494,894; Aug. 6. Class 42.

Dynamatic Corporation, Kenosha, Wis. Dynamometers. Serial No. 487,607; Aug. 6. Class 26.

Elsbeth Novelties: *See*—
Moser, Elizabeth S.

Five-In-One Ventilator Company: *See*—
Shortlidge, Wentworth H.

Follsain Metals Ltd., Lutterworth, near Rugby, England. Electrical appliances and parts thereof. Serial No. 477,604; Aug. 6. Class 21.

French, Thomas, & Sons, Ltd., New York, N. Y. Ladder web for Venetian blinds. Serial No. 494,498; Aug. 6. Class 40.

Freyd, Paul R., doing business as Associated Manufacturers, Providence, R. I. Brooches, earrings, pins, etc. Serial No. 496,440; Aug. 6. Class 28.

Gagnon, Armand, Montreal, Quebec, Canada. Leather shoes and slippers. Serial No. 490,113; Aug. 6. Class 39.

Gailstyn Company, The, New York, N. Y. Kitchen, table, and household cutlery and parts thereof. Serial No. 495,372; Aug. 6. Class 23.

Gellin Co., The, Cleveland, Ohio. Industrial floor composition—namely, asphalt and asphalt cement, concrete, etc. Serial No. 478,672; Aug. 6. Class 12.

Gemex Company, Union, N. J. Watch bracelets, watch straps, neck chains, etc. Serial No. 489,395; Aug. 6. Class 28.

Georgie Porgie Company: *See*—
Willey, R. F.

Germanow-Simon Machine Co., Rochester, N. Y. Watch crystals. Serial No. 495,027; Aug. 6. Class 33.

Globe Knitwear Co., Philadelphia, Pa. Sweaters. Serial No. 494,898; Aug. 6. Class 39.

Globe Laboratories, Fort Worth, Tex. Fluid suspension of a sulfa drug. Serial No. 498,135; Aug. 6. Class 6.

Goldman, Maurice, doing business as Alan's Baking Co., Utica, N. Y. Cookies. Serial No. 496,233; Aug. 6. Class 46.

Goldwag, Hyman, Brooklyn, N. Y. Watches. Serial No. 497,792; Aug. 6. Class 27.

Grand Specialties Company, Chicago, Ill. Work holding clamps. Serial No. 495,377; Aug. 6. Class 23.

Greater New York Bedding Company: *See*—
Lipps, Morris.

Guidry, Delferes E., Port Lavaca, Tex. Medicinal preparation. Serial No. 498,062; Aug. 6. Class 6.

Haas Manufacturing Co., Chicago, Ill. Liquid fuel burning lighters. Serial No. 495,736; Aug. 6. Class 34.

Hallam, Sleigh & Cheston, Birmingham, England. Complete frames for windows and wind shields, glazing strips, etc. Serial No. 479,342; Aug. 6. Class 19.

Harter, Ed., Inc., Toledo, Ohio. Candies. Serial No. 488,220; Aug. 6. Class 46.

Henry, Paul, doing business as Raitronics, Ltd., Los Angeles, Calif. Electrical relays. Serial No. 479,874; Aug. 6. Class 21.

Hillyard Chemical Company, St. Joseph, Mo. Ready-mixed paint. Serial No. 494,843; Aug. 6. Class 16.

Hlavaty Insulations: *See*—
Hlavaty, Rudolf F.

Hlavaty, Rudolf F., doing business as Hlavaty Insulations, Cicero, Ill. Sheet material resistant to acid, flame, and water. Serial No. 495,235; Aug. 6. Class 12.

Hobby Hill, Chicago, Ill. Toys. Serial No. 484,025; Aug. 6. Class 22.

Holophane Company, Inc., New York, N. Y. Glass, plastics, combinations of glass and metal, etc. Serial No. 488,525; Aug. 6. Class 34.

Homelite Corporation, East Port Chester, Conn. Gasoline-engine-driven blower units, etc. Serial No. 494,324; Aug. 6. Class 34.

International Braid Company, Providence, R. I. Support for Venetian blind slats. Serial Nos. 494,329–33; Aug. 6. Class 40.

International Shoe Company, St. Louis, Mo. Boots and shoes of leather, fabric, and/or combinations thereof. Serial No. 474,853; Aug. 6. Class 39.

Johnson & Johnson, New Brunswick, N. J. Toothbrush bristles. Serial No. 493,125; Aug. 6. Class 1.

Kinslow, Henry M., Pasadena, Calif. Scooter-type wheeled vehicles. Serial No. 497,252; Aug. 6. Class 19.

Klink Citrus Association, Ivanhoe, Calif. Fresh citrus fruits. Serial No. 490,067; Aug. 6. Class 46.

Kompolite Co., Inc., Brooklyn, N. Y. Fireproof and non-smoke producing high strength hydraulic cement composition. Serial No. 472,390; Aug. 6. Class 12.

Kraft, Mike, doing business as Vitabev Bottling Co., Philadelphia, Pa. Non-alcoholic, maltless beverage. Serial No. 494,564; Aug. 6. Class 45.

Lektrolite Corporation, New York, N. Y. Cigar, cigarette, and pipe lighters of the catalytic type and parts, etc. Serial No. 494,086; Aug. 6. Class 34.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,036; Aug. 6. Class 4.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,038; Aug. 6. Class 4.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,042; Aug. 6. Class 4.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,044; Aug. 6. Class 4.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,049; Aug. 6. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,055; Aug. 6. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,059; Aug. 6. Class 4.
Lipps, Morris, doing business as Greater New York Bedding Company, Brooklyn, N. Y. Bed bolsters. Serial No. 491,165; Aug. 6. Class 32.
Lumberman's Door & Trim Company, The, Cleveland, Ohio. Combination storm and screen panel structures. Serial No. 499,643; Aug. 6. Class 12.
Mac's Super Gloss Co., Los Angeles, Calif. Wax for floors, furniture, and automobiles. Serial No. 491,103; Aug. 6. Class 16.
Meicraft, Saginaw, Mich. Miniature model internal combustion engines, miniature fuel tanks, miniature carburetors. Serial No. 495,082; Aug. 6. Class 23.
Mendelsohn, Rose R., doing business as National Novelties, Chicago, Ill. Cold wave kits. Serial No. 487,912; Aug. 6. Class 50.
Merryweather Products Company, Akron, Ohio. Fireplace fixture or front. Serial No. 489,339; Aug. 6. Class 34.
Midland Grocery Company, The, Columbus, Ohio. Canned fruits and vegetables, canned fish, canned soup, etc. Serial No. 493,890; Aug. 6. Class 46.
Miller, Irving B., doing business as Ace-Hi Hat Reducer Mfg. Co., Chicago, Ill. Hat size reducer in the nature of a strip of flexible material. Serial No. 493,017; Aug. 6. Class 39.
Mill-Stream Sanitary & Pest Control Co., The: *See*—
Burnett, Lloyd.
Moench, R. G., & Co., Inc., New York, N. Y. Edible powdered mixture. Serial No. 498,646–7; Aug. 6. Class 46.
Moncey Products Corp., Chicago, Ill. Shoes and boots. Serial No. 493,447; Aug. 6. Class 39.
Moser, Elizabeth S., doing business as Elsbeth Novelties, Fort Wayne, Ind. Fanciful configuration of living creatures, such as insects, for personal wear, etc. Serial No. 495,398; Aug. 6. Class 28.
Murray, Edgar A., Co., Detroit, Mich. Insecticide or insect exterminator. Serial No. 489,820; Aug. 6. Class 6.
Murray, Edgar A., Co., Detroit, Mich. Insecticide or insect exterminator. Serial No. 489,822; Aug. 6. Class 6.
Nagao, Shimpei, doing business as Soya Bean Products Company, Garland, Utah. Soya bean sauce. Serial No. 475,396; Aug. 6. Class 46.
National Novelties: *See*—
Mendelsohn, Rose R.
National Oil Products Company, Harrison, N. J. Chemical composition. Serial Nos. 492,152–3; Aug. 6. Class 6.
North American Philips Company, Inc., Dobbs Ferry, N. Y. X-ray apparatus. Serial No. 496,458; Aug. 6. Class 26.
Northeastern Products, Inc., Boston, Mass. Insecticide. Serial No. 493,813; Aug. 6. Class 6.
Oakes & Company, doing business as Tru-Test, Chicago, Ill. Electric tools. Serial No. 480,614; Aug. 6. Class 21.
Pacific Mills, Boston, Mass., and New York, N. Y. Woolen fabrics in the piece. Serial No. 495,689; Aug. 6. Class 42.
Park & Tilford, New York, N. Y. Perfume, toilet water, face powder, etc. Serial No. 498,167; Aug. 6. Class 6.
Penick, S. B., & Company, New York, N. Y. Perfume base used as a constituent in the manufacture of perfumes. Serial No. 497,406; Aug. 6. Class 6.
Pereles Bros., Inc., Milwaukee, Wis. Shoe heels. Serial No. 487,436; Aug. 6. Class 39.
Perry Knitting Company, The, Perry, N. Y. Sleeping garments. Serial No. 494,626; Aug. 6. Class 39.
Peter Pan Manufacturing Co., Boston, Mass. Infants' and children's overalls, coveralls, crawlers, etc. Serial No. 496,151; Aug. 6. Class 39.
Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. Timers, starters, and voltage limiters, etc. Serial No. 487,522; Aug. 6. Class 21.
Piezo Manufacturing Corporation, New York, N. Y. Pipe and cigarette tobacco, cigarettes, and cigars. Serial No. 493,212; Aug. 6. Class 17.
Pollard, Frank L., Company, Oakland, Calif. Clothes racks for drying clothes. Serial No. 497,565; Aug. 6. Class 24.
Portland Footwear Co., Portland, Maine. Leather shoes for women. Serial No. 491,118; Aug. 6. Class 39.
Rain-Beau Products Company, Canton, Mass. Fishing lines. Serial No. 493,522; Aug. 6. Class 22.
Raitronics, Ltd.: *See*—
Henry, Paul.
Reeves Brothers, Inc., New York, N. Y. Work shirts, pants, work coats, etc. Serial No. 495,905; Aug. 6. Class 39.
Refined Products Company, Lyndhurst, N. J. Soap substitute applied to textiles and leather as a finishing agent and detergent. Serial Nos. 493,509–11; Aug. 6. Class 4.
Reflecto Letters Co., New York, N. Y. Luminous letters and numbers. Serial No. 489,146; Aug. 6. Class 50.
Replica Products Company, New York, N. Y. Offset lithography chemical solutions. Serial No. 498,311; Aug. 6. Class 6.
Reynolds International Pen Company, Chicago, Ill. Ink. Serial No. 492,397; Aug. 6. Class 11.
Rice-Stix Dry Goods Company, St. Louis, Mo. Radio receiving sets. Serial No. 496,274; Aug. 6. Class 21.
Riley, Stephen, Co.: *See*—
Riley, Stephen E.
Riley, Stephen E., doing business as Stephen Riley Co., Los Angeles, Calif. Detergent preparations for use in bathing. Serial No. 487,526; Aug. 6. Class 4.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Piece goods of cotton, rayon, wool, etc. Serial Nos. 495,907–8; Aug. 6. Class 42.
Robbins, Reginald, doing business under the name Stratosphere Products Company, Los Angeles, Calif. Liquid anti-freeze composition. Serial Nos. 497,742–3; Aug. 6. Class 6.
Robertson, H. H., Company, Pittsburgh, Pa. Paints. Serial No. 483,148; Aug. 6. Class 16.
Rosenthal, S., & Co., Inc., Cincinnati, Ohio. Publication issued periodically. Serial No. 497,043; Aug. 6. Class 38.
Rubin, Samuel, New York, N. Y. Simulated pearls, cultured pearls, jewelry for personal wear, etc. Serial No. 491,288; Aug. 6. Class 28.
Rutlee Chemical Company, Inc., Perth Amboy, N. J., and Washington, D. C. Antacid preparation for internal use. Serial No. 497,202; Aug. 6. Class 6.
Safian, Felix, New York, N. Y. Misses' and junior misses' dresses, dress and jacket ensembles, jackets, etc. Serial No. 499,079; Aug. 6. Class 39.
Schlitters, Michael J., doing business as Screw Machine Tool Company, Detroit, Mich. Screw machine and turret lathe tool holders and parts. Serial No. 496,521; Aug. 6. Class 23.
Screw Machine Tool Company: *See*—
Schlitters, Michael J.
Sears, Roebuck and Co., Chicago, Ill. Nest eggs, portable stock and poultry feeders and waterers, etc. Serial No. 479,534; Aug. 6. Class 50.
Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Flush valve bulbs. Serial No. 469,366; Aug. 6. Class 13.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for use in treating skin conditions. Serial No. 494,367; Aug. 6. Class 6.
Shortlidge, Wentworth H., doing business as Five-In-One Ventilator Company, Pittsburgh, Pa. Window ventilators. Serial No. 498,718; Aug. 6. Class 34.
Singer Manufacturing Company, The, Elizabeth, N. J. Family and manufacturing sewing machines, their parts and attachments, etc. Serial No. 473,547; Aug. 6. Class 23.
Southern Bargain House, Inc., Richmond, Va. Felt base floor coverings. Serial No. 493,027; Aug. 6. Class 20.
Southern Canning Company, Ltd., Houston, Tex. Canned dog food. Serial No. 498,658; Aug. 6. Class 46.
Soya Bean Products Company: *See*—
Nagao, Shimpei.
Special Products Company, Silver Spring, Md. Radio analyzing apparatus. Serial No. 494,466; Aug. 6. Class 26.
Sport Products Inc., Cincinnati, Ohio. Tennis rackets. Serial No. 491,033; Aug. 6. Class 22.
Steinman Bros., New York, N. Y. Handbags and purses. Serial No. 496,171; Aug. 6. Class 3.
Stratosphere Products Company: *See*—
Robbins, Reginald.
Street & Smith Publications, Inc., New York, N. Y. Column in a periodical published at intervals. Serial No. 496,933; Aug. 6. Class 38.
Tingue, Brown & Co., New York, N. Y. Printing press blankets. Serial No. 497,055; Aug. 6. Class 50.
Tru-Test: *See*—
Oakes & Company.
Universal Engineering Corporation, Cedar Rapids, Iowa. Crushers, screeners, conveyors, etc. Serial No. 470,360; Aug. 6. Class 23.
Universal Zonolite Insulation Co., Chicago, Ill. Exfoliated vermiculite for soil conditioning and plant germination. Serial No. 492,805; Aug. 6. Class 10.
Vitabev Bottling Co.: *See*—
Kraft, Mike.
Vogel, Louis, Chicago, Ill. Finger rings, wedding bands and mountings therefor. Serial No. 496,674; Aug. 6. Class 28.
Well-Maid Apron Co.: *See*—
Capsuto, Elias.
Wesson Company, Ferndale, Mich. Milling cutters. Serial No. 495,924; Aug. 6. Class 23.
Willey, R. F., doing business as Georgie Porgie Company, Council Bluffs, Iowa. Cereal breakfast foods and popcorn. Serial No. 490,000; Aug. 6. Class 46.
Wilmington Hosiery Mills, Inc., Wilmington, Del. Nylon yarn. Serial No. 491,224; Aug. 6. Class 48.
Wilson, Thomas B., Minneapolis, Minn. Lockets. Serial No. 492,810; Aug. 6. Class 28.
Windsor-Lloyd Products, Inc., Philadelphia, Pa. Asphalt roofing paper. Serial No. 477,727; Aug. 6. Class 12.
Worthington Products Co., Inc., Arlington, Va. Preparation to prevent fog or mist upon glass surfaces. Serial No. 489,029; Aug. 6. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

Aktiebolaget Södertelje, Tändsticksfabrik, Södertelje, Sweden, to Jönköpings och Vulcans Tändsticksfabriks-aktiebolag, Jönköping, Sweden. Safety-matches, phosphoric matches, and matches of other kinds. 54,699; re-renewed June 26, 1946. O. G. Aug. 6. Class 9.
Alpha-Craft Company: *See*—
Meyers, Louis G.
American Glue Co., Boston, Mass., to Eastman Gelatin Corporation, Peabody, Mass. Gelatine. 50,675; re-renewed Mar. 27, 1946. O. G. Aug. 6. Class 46.
American Sales Book Company Limited, Toronto, Ontario, Canada, and Niagara Falls and Elmira, to Moore Business Forms, Inc., Niagara Falls, N. Y. Paper sheets, strips, rolls, etc. 210,442; renewed Mar. 16, 1946. O. G. Aug. 6. Class 37.
American Steel Foundries, Chicago, Ill. Brake rigging, brake heads, brake beams, etc. 217,699; renewed Sept. 7, 1946. O. G. Aug. 6. Class 19.
Anderson, William T., doing business as Indianapolis Dental Specialty Co., Indianapolis, Ind. Centrifugal casting machines. 422,657; Aug. 6; Serial No. 485,469; published May 14, 1946. Class 23.
Appliance Manufacturing Company, Alliance, Ohio. Laundry equipment. 422,680; Aug. 6; Serial No. 477,832; published May 7, 1946. Class 24.
Arvey Corporation, Chicago, Ill., and Detroit, Mich. Coated and uncoated fibre base composition boards and panels. 422,643; Aug. 6; Serial No. 481,603; published May 14, 1946. Class 12.
Associated Manufacturers: *See*—
Freyd, Paul R.
Automotive Products Distributor, Ltd.: *See*—
Stratton, Archie T.
Baker, Walter, & Company, Inc.: *See*—
Baker, Walter, & Company Limited.
Baker, Walter, & Company Limited, Boston, to Walter Baker & Company, Inc., Dorchester, Mass. Cocoa, chocolate, broma, and cocoa preparations. 55,841; re-renewed Aug. 21, 1946. O. G. Aug. 6. Class 46.
Balstone, Cooke & Rayonese Limited, Manchester, England. Textile piece goods. 422,680; Aug. 6; Serial No. 489,433; published Mar. 26, 1946. Class 42.
Bareco Oil Company: *See*—
Brownell Corporation, The.
Basford, H. R., Co., San Francisco, Calif. Hand operated cutting tool. 422,662; Aug. 6; Serial No. 486,136; published May 14, 1946. Class 23.
Bean Sprout Growers' Association, Duluth, Minn. Canned bean sprout chop suey vegetables and canned bean sprouts. 422,687; Aug. 6; Serial No. 491,308; published May 7, 1946. Class 46.
Behrens, E. H., & Co., Inc., to F. Schumacher & Co., New York, N. Y. Dresses. 217,615; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.
Bell & Gossett Company, Morton Grove, Ill. Air eliminating device. 422,624; Aug. 6; Serial No. 472,498; published May 14, 1946. Class 34.
Bemis Bro. Bag Company, St. Louis, Mo. Waterproof shipping bags. 422,691; Aug. 6; Serial No. 491,961; published May 14, 1946. Class 2.
Benrose Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 422,622; Aug. 6. Serial No. 469,145; published May 1, 1945. Class 42.
Boettinger, Rudolph, doing business as J. Randolph & Co., Englewood, N. J. Non-abrasive knife sharpener and a combination kitchen tool, etc. 422,677; Aug. 6; Serial No. 488,846; published May 7, 1946. Class 23.
Boott Mills, Lowell, Mass. Capes, men's and women's coats; children's play coats, hats, etc. 217,729; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.
Borgfeldt, Geo., & Co., to Geo. Borgfeldt Corporation, New York, N. Y. Stuffed toy animals. 215,256; renewed July 13, 1946. O. G. Aug. 6. Class 22.
Borgfeldt, Geo., Corporation: *See*—
Borgfeldt, Geo., & Co.
Brewster Aeronautical Corporation, Long Island City, N. Y. Household aluminum ware. 422,713; Aug. 6; Serial No. 493,099; published May 7, 1946. Class 13.
Brown & Sharpe Manufacturing Company, Providence, R. I. Calipers, dividers, and try-squares. 56,130; re-renewed Aug. 28, 1946. O. G. Aug. 6. Class 26.
Brownell Corporation, The, Sioux Falls, S. Dak., to Bareco Oil Company, Tulsa, Okla. Lubricating oils and greases. 207,921; renewed Jan. 12, 1946. O. G. Aug. 6. Class 15.
Bruun, A/S L. E., Export: *See*—
Tupman Thurlow Sales Co., Inc., The.
Byck Bros. & Company, Incorporated, Louisville, Ky. Costume jewelry. 422,689; Aug. 6; Serial No. 491,624; published May 7, 1946. Class 28.
Carter-Crume Co. Limited, The, to Moore Business Forms, Inc., Niagara Falls, N. Y. Autographic registers. 50,846; re-renewed Mar. 13, 1946. O. G. Aug. 6. Class 37.
Carter-Crume Co. Limited, The, to Moore Business Forms, Inc., Niagara Falls, N. Y. Duplicate sales-slip books and paper pads therefor. 50,583; re-renewed Mar. 27, 1946. O. G. Aug. 6. Class 37.
Carter, Otis A., doing business as Carter's Chickery, Eldorado, Ill. Live poultry, baby chicks, and eggs. 216,940; renewed Aug. 24, 1946. O. G. Aug. 6. Class 46.
Carter's Chickery: *See*—
Carter, Otis A.
Cello Products Incorporated, New York, N. Y., to E. I. du Pont de Nemours and Company, Wilmington, Del. An article of manufacture comprising a reticular metallic base covered with a thin transparent or translucent elastic body or film firmly adhering to the strands of said base and used in the construction of temporary buildings of all sorts, etc. 210,481; renewed Mar. 16, 1946. O. G. Aug. 6. Class 12.
Central Radio Laboratories, to Globe-Union Inc., Milwaukee, Wis. Rheostats and resistance devices. 217,658; renewed Sept. 7, 1946. O. G. Aug. 6. Class 21.
Circo Products Company, Cleveland, Ohio. Degreasers. 422,647; Aug. 6; Serial No. 482,611; published May 7, 1946. Class 23.
Circo Products Company, Cleveland, Ohio. Degreasers. 422,648; Aug. 6; Serial No. 482,612; published May 14, 1946. Class 23.
Clark, L. Yancey, doing business as Georgia Pine Turpentine Company, New York, N. Y., to The Glidden Company, Cleveland, Ohio. Flotation oils, pine oils, and pine-tar oil. 217,392; renewed Aug. 31, 1946. O. G. Aug. 6. Class 15.
Coaltoter Conveyer Co., Chicago, Ill. Portable power-driven belt conveying apparatus. 422,626; Aug. 6; Serial No. 475,837; published May 7, 1946. Class 28.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods of cotton, rayon, wool, etc. 422,705; Aug. 6; Serial No. 492,684; published Apr. 30, 1946. Class 42.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods of cotton, rayon, wool, etc., or combinations thereof. 422,711; Aug. 6; Serial No. 493,043; published Apr. 30, 1946. Class 42.
Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 55,846; re-renewed Aug. 21, 1946. O. G. Aug. 6. Class 4.
Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soaps. 55,886; re-renewed Aug. 21, 1946. O. G. Aug. 6. Class 4.
Colgate & Company, to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 217,427; renewed Aug. 31, 1946. O. G. Aug. 6. Class 4.
Colgate-Palmolive-Peet Company: *See*—
Colgate & Co.
Palmolive Company, The.
Columbian Steel Tank Company, Kansas City, Mo. Automotive express vehicle bodies, boats for rowing, etc., barges, etc. 422,632; Aug. 6; Serial No. 478,497; published May 14, 1946. Class 19.
Commonwealth Products Company: *See*—
Grossman, Henry.
Continental Screw Company, New Bedford, Mass. Fastenings of the following nature: screws—wood, lag, cap, etc. 422,631; Aug. 6; Serial No. 477,971; published May 7, 1946. Class 13.
Crest Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 422,695; Aug. 6; Serial No. 492,181; published Apr. 30, 1946. Class 42.
Crest Specialty, Not Inc., Chicago, Ill. Collar stays. 422,690; Aug. 6; Serial No. 491,807; published May 7, 1946. Class 28.
Crown Overall Mfg. Company, The: *See*—
Larned, Carter and Company.
Crypto Locks Inc., New York, N. Y. Locks. 422,719; Aug. 6; Serial No. 493,483; published May 7, 1946. Class 25.
Crystal, David, Inc., New York, N. Y. Rayon piece goods. 422,627; Aug. 6; Serial No. 475,946; published Feb. 27, 1945. Class 42.
Davies-Young Soap Company, The, Dayton, Ohio. Collar and cuff soap. 217,508; renewed Aug. 31, 1946. O. G. Aug. 6. Class 4.
Deltox Rug Company, Oshkosh, Wis. Grass rugs. 217,160; renewed Aug. 24, 1946. O. G. Aug. 6. Class 42.
Designers for Industry, Inc., Cleveland, Ohio. Special machines. 422,629; Aug. 6; Serial No. 477,101; published May 7, 1946. Class 23.
Detroit Stamping Company, Detroit, Mich. Toggle clamps, toggle pliers, mechanical arbor spacers, etc. 422,618; Aug. 6; Serial No. 458,364; published May 7, 1946. Class 23.
Dohrmann Hotel Supply Co., San Francisco, Calif. Electric stoves, electric food tables, electric coffee urns, etc. 422,669; Aug. 6; Serial No. 487,601; published May 14, 1946. Class 21.

Dominion Chemical Co., Inc., New York, N. Y. Roof cement. 422,706; Aug. 6; Serial No. 492,693; published May 14, 1946. Class 12.

Dunlop Milling Company, The, Clarksville, Tenn., to Igleheart Brothers Incorporated, New York, N. Y. Self-rising flour. 214,832; renewed July 6, 1946. O. G. Aug. 6. Class 46.

Du Pont, E. I., de Nemours and Company: *See*— Cello Products Incorporated.

Duramold Aircraft Corporation, Dover, Del., and New York, N. Y. Airplanes and airplane parts. 422,619; Aug 6; Serial No. 466,345; published Apr. 30, 1946. Class 19.

Eagle Pencil Company, to Eagle Pencil Company, New York, N. Y. Metallic tips for lead-pencils. 52,807; re-renewed May 15, 1946. O. G. Aug. 6, Class 37.

Eagle Pencil Company, to Eagle Pencil Company, New York, N. Y. Lead-pencils. 55,058–62; re-renewed Aug. 7, 1946. O. G. Aug. 6. Class 37.

Eastman Gelatine Corporation: *See*— American Glue Co.

Eastman Oil Well Survey Company, Denver, Colo. Oil well tools. 422,666; Aug. 6; Serial No. 487,075; published May 7, 1946. Class 23.

Empire Brush Works, Port Chester, N. Y. Hair brushes. 422,645–6; Aug. 6; Serial Nos. 482,525–6; published May 14, 1946. Class 29.

Engineering Products Corporation, Incorporated, The, New York, N. Y. Dust marks to prevent the inhaling of dust and other deleterious matter, etc. 216,531; renewed Aug. 10, 1946. O. G. Aug. 6. Class 44.

Englander Co., Inc., The: *See*— Fort Pitt Bedding Company.

Engravocraft Company: *See*— Wyckoff, N.

Farbenindustrie, J. G., Aktiengesellschaft, Ludwig-shafen-on-Rhine, Germany, to General Dyestuff Corporation, New York, N. Y. Wetting-out agents; emulsifying agents and solvents, etc. 216,879; renewed Aug. 24, 1946. O. G. Aug. 6. Class 6.

Farrah, John, & Harrogate Toffee, Limited, Harrogate, England. Toffee, ginger nuts, chocolates. 210,991; renewed Mar. 30, 1946. O. G. Aug. 6. Class 46.

Farrah, John, & Harrogate Toffee, Limited, Harrogate, England. Toffee. 210,992; renewed Mar. 30, 1946. O. G. Aug. 6. Class 46.

Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Hydraulic rubber presses, hose-making machines, rubber calendars, etc. 422,642; Aug. 6; Serial No. 481,180; published May 7, 1946. Class 23.

Fort Pitt Bedding Company, Pittsburgh, Pa., assignor to The Englander Co., Inc., Chicago, Ill. Mattresses and box springs. 422,673; Aug. 6; Serial No. 488,517; published May 14, 1946. Class 32.

Fort Pitt Bedding Company, Pittsburgh, Pa., assignor to The Englander Co., Inc., Chicago, Ill. Mattresses and box springs. 422,674; Aug. 6; Serial No. 488,520; published May 14, 1946. Class 32.

Freedman, Leonard, & Sons, New York, N. Y. Woven or other fabrics in strips, sheets, or continuous rolls. 422,656; Aug. 6; Serial No. 485,404; published May 7, 1946. Class 50.

Freyd, Paul R., doing business as Associated Manufacturers, Providence, R. I. Brooches, earrings, pins, etc. 422,664; Aug. 6; Serial No. 486,762; published May 14, 1946. Class 28.

General Dyestuff Corporation: *See*— J. G. Farbenindustrie Aktiengesellschaft.

General Refractories Company, Philadelphia, Pa. Standard refractory brick. 422,618; Aug. 6; Serial No. 466,282; published May 14, 1946. Class 12.

Georgia Pine Turpentine Company: *See*— Clark, L. Yancey.

Glidden Company, The: *See*— Clark, L. Yancey.

Globe-Union Inc.: *See*— Central Radio Laboratories.

Goodrich, B. F., Company, The, New York, N. Y. Rubber vehicle tires. 210,385; renewed Mar. 16, 1946. O. G. Aug. 6. Class 35.

Goodrich, B. F., Company, The, New York, N. Y. Rubber-covered hose. 210,614; renewed Mar. 16, 1946. O. G. Aug. 6. Class 35.

Goodrich, B. F., Company, The, New York, N. Y. Sheet-rubber coverings for surfaces of receptacles, etc. 212,041; renewed Apr. 27, 1946. O. G. Aug. 6. Class 50.

Gretsch, Fred, Manufacturing Co., The: *See*— Stivers, James J.

Griffin, G. W., Co., Franklin, N. H. Hack saw blades. 422,692; Aug. 6; Serial No. 492,042; published May 7, 1946. Class 23.

Grossman, Henry, doing business as Commonwealth Products Company, Philadelphia, Pa. Bathtubs, portable showers, shower receptors, and laundry trays. 422,659; Aug. 6; Serial No. 485,817; published May 7, 1946. Class 13.

Haas, J. G., Soap Co., St. Louis, Mo., to Procter & Gamble Company, The, Cincinnati, Ohio. Laundry soap. 55,457; re-renewed Aug. 14, 1946. O. G. Aug. 6. Class 4.

Hall Grain Company, New Iberia, La. Blend of cane syrup and corn syrup. 422,681; Aug. 6; Serial No. 489,582; published May 7, 1946. Class 46.

Harris, B. W., Manufacturing Co., Inc., St. Paul, Minn. Textile fabrics in the piece, of wool, worsted, cotton, etc. 422,700; Aug. 6; Serial No. 492,374; published May 14, 1946. Class 42.

Heckethorn Manufacturing & Supply Co., Littleton, Colo. Cameras, photo printing frames and boxes, photo trimming boards, etc. 422,670; Aug. 6; Serial No. 487,619; published May 7, 1946. Class 26.

Helman, Arthur S., Inc., New York, N. Y. "Jersette" rayon print materials. 422,615; Aug. 6; Serial No. 464,921; published Jan. 11, 1944. Class 42.

Henrose Co. Inc., The, New York, N. Y. Piece goods. 422,625; Aug. 6; Serial No. 474,751; published Feb. 13, 1945. Class 42.

Hirsch, A., Company, Chicago, Ill. Finger rings. 422,671; Aug. 6; Serial No. 487,620; published May 14, 1946. Class 28.

Hirsch, Clement L., doing business as Packers Canning Company, Los Angeles, Calif. Canned dog and cat food. 422,726; Aug. 6; Serial No. 495,141; published May 14, 1946. Class 46.

Horst, E. Clemens, Company, San Francisco, Calif. Hops. 217,023; renewed Aug. 24, 1946. O. G. Aug. 6. Class 1.

Howell, R. R., Co., Minneapolis, Minn. Overhead electric traveling-truck hoists. 422,693; Aug. 6; Serial No. 492,051; published May 7, 1946. Class 23.

Humanatone Company: *See*— Stivers, James J.

Igleheart Brothers Incorporated: *See*— Dunlop Milling Company, The. Phoenix Flour Mill.

Improved Products, Incorporated, Culver City, Calif. Powder base for making imitation banana flavored pudding. 422,663; Aug. 6; Serial No. 486,372; published May 14, 1946. Class 46.

Independent Oil Burner Corp., Jamaica, N. Y. Oil burners. 422,675; Aug. 6; Serial No. 488,694; published May 14, 1946. Class 34.

Indianapolis Dental Specialty Co.: *See*— Anderson, William T.

Inland Engineering Company, to Kensington Steel Company, Chicago, Ill. Conveyor chains. 214,896; renewed July 6, 1946. O. G. Aug. 6. Class 13.

Inland Engineering Company, to Kensington Steel Company, Chicago, Ill. Repair parts for trench-excavating machines, concaves; jaw plates, etc. 217,278; renewed Aug. 31, 1946. O. G. Aug. 6. Class 23.

International Detrola Corporation: *See*— Utah Radio Products Company.

Jelke, John F., Company, Chicago, Ill. Oleomargarine. 422,665; Aug. 6; Serial No. 486,785; published May 14, 1946. Class 46.

Johns-Manville Corporation: *See*— Johns-Manville, Incorporated.

Johns-Manville, Incorporated, to Johns-Manville Corporation, New York, N. Y. Sectional pipe covering. 210,529; renewed Mar. 16, 1946. O. G. Aug. 6. Class 12.

Johns-Manville, Incorporated, to Johns-Manville Corporation, New York, N. Y. Heat-insulating materials. 212,154; renewed Apr. 27, 1946. O. G. Aug. 6. Class 12.

Johns-Manville, Incorporated, to Johns-Manville Corporation, New York, N. Y. Flax packing. 212,510; renewed May 4, 1946. O. G. Aug. 6. Class 35.

Jönköpings och Vulcans Tändsticksfabriksaktiebolag: *See*— Aktiebolaget Södertelje, Tändsticksfabrik.

Kalart Company, Inc., The, Stamford, Conn. Camera attachments and accessories. 422,688; Aug. 6; Serial No. 491,575; published May 7, 1946. Class 26.

Kann, S., Sons Company, The, Washington, D. C. Ladies', misses', and children's shoes. 215,864; renewed July 27, 1946. O. G. Aug. 6. Class 39.

Kann, S., Sons Company, The, Washington, D. C. Women's dresses. 216,374; renewed Aug. 10, 1946. O. G. Aug. 6. Class 39.

Kensington Steel Company: *See*— Inland Engineering Company.

Kilgore Manufacturing Company, The: *See*— Kilgore Mfg. Co., The.

Kilgore Mfg. Co., The, to The Kilgore Manufacturing Company, Westerville, Ohio. Ammunition, particularly paper caps for toy pistols. 196,278; renewed Mar. 17, 1945. O. G. Aug. 6. Class 9.

King Leathers Incorporated, Indiana, Pa. Purses, wallets, and pocketbooks. 422,716; Aug. 6; Serial No. 493,365; published May 14, 1946. Class 3.

Knapway Devices, Inc., Kansas City, Mo. Paper cups. 422,720; Aug. 6; Serial No. 493,495; published May 14, 1946. Class 2.

Lake Hamilton Cooperative, Inc., Lake Hamilton, Fla. Fresh citrus fruits. 422,651; Aug. 6; Serial No. 483,535; published May 7, 1946. Class 46.

Larned, Carter and Company, Detroit, Mich., to The Crown Overall Mfg. Company, Cincinnati, Ohio. Workingmen's clothing. 217,784; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.

Leach Company, Oshkosh, Wis. Logging tools and electrical pole-line construction tools. 214,035; renewed June 8, 1946. O. G. Aug. 6. Class 23.

Leo, Paul, doing business as Precision Mechanical Laboratory, New York, N. Y. Machine cutting tools. 422,676; Aug. 6; Serial No. 488,763; published May 7, 1946. Class 23.

Levine, William, doing business as William Vine, Los Angeles, Calif. Motion picture films carrying sound recordings. 422,649; Aug. 6; Serial No. 483,073; published May 7, 1946. Class 26.

Linton, P. & A., Co. Inc., Providence, R. I. Earrings. 210,023; renewed March 9, 1946. O. G. Aug. 6. Class 28.

Linton, P. & A., Co., Inc., Providence, R. I. Earrings. 210,804; renewed Mar. 23, 1946. O. G. Aug. 6. Class 28.

Louisiana Hosiery & Notion Co.: *See*— Louisiana Paper Company, Ltd.

Louisiana Paper Company, Ltd., doing business as Louisiana Hosiery & Notion Co., Shreveport, La. Hosiery. 215,880; renewed July 27, 1946. O. G. Aug. 6. Class 39.

Lowe, Donald and Company, Limited, Peebles, Scotland. Woven woolen piece of pure new wool. 422,667; Aug. 6; Serial No. 487,088; published Feb. 26, 1946. Class 42.

Lucas, John, & Company, Inc.: *See*— Lucas, John, & Company Incorporated.

Lucas, John, & Company Incorporated, to John Lucas & Company, Inc., Philadelphia, Pa. Paint lacquers and enamels. 207,321; renewed Dec. 29, 1945. O. G. Aug. 6. Class 16.

Manufacture des Montres Universal Perret et Berthoud S. A. (Universal Watch Factory, Perret & Berthoud Ltd.), Geneva, Switzerland. Watches and parts thereof. 422,614; Aug. 6; Serial No. 462,418; published Apr. 30, 1946. Class 27.

March Engineering Company, Oshkosh, Wis. Hydraulic jacks and cylinders and rams. 422,685; Aug. 6; Serial No. 490,541; published May 14, 1946. Class 23.

Mark, Clayton, & Company, Chicago, to Clayton Mark & Company, Evanston, Ill. Cup leathers for well valves. 216,075; renewed Aug. 3, 1946. O. G. Aug. 6. Class 35.

Mason, Albert G., to White Sewing Machine Corporation, Cleveland, Ohio. Oscillating, rotating, and vibrating shuttle or looper sewing-machines, sewing-machine covers, tables, etc. 56,289; re-renewed Sept. 4, 1946. O. G. Aug. 6. Class 23.

McDonald & Son Golf Ball Co., West Chicago, Ill., Golf balls. 422,660–1; Aug. 6; Serial Nos. 486,051–2; published May 14, 1946. Class 22.

Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece. 422,707; Aug. 6; Serial No. 492,725; published Apr. 30, 1946. Class 42.

Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece. 422,708; Aug. 6; Serial No. 492,729; published May 7, 1946. Class 42.

Meadtex Fabrics Co., New York, N. Y. Textile fabrics in the piece. 422,712; Aug. 6; Serial No. 493,069; published Apr. 30, 1946. Class 42.

Meis, Charles, Shoe Company, The, Cincinnati, Ohio. Leather shoes. 217,625; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.

Merchants Coffee Co., of New Orleans, Ltd., New Orleans, La. Coffee. 422,725; Aug. 6; Serial No. 494,856; published May 14, 1946. Class 46.

Merita, Inc., New York, N. Y. Powder puffs and powder mitts. 422,717; Aug. 6; Serial No. 493,378; published May 7, 1946. Class 29.

Merrell, Wm. S., Company, The: *See*— Merrell, Wm. S., Co., The.

Merrell, Wm. S., Co., The, to The Wm. S. Merrell Company, Cincinnati, Ohio. Emulsion of cod-liver oil. 213,748; renewed June 1, 1946. O. G. Aug. 6. Class 6.

Meyers, Louis G., doing business as Alpha-Craft Company, New York, N. Y. Costume jewelry. 422,714–15; Aug. 6; Serial Nos. 493,270–1; published May 7, 1946. Class 28.

Mills, H. E., Limited, London, England, to H. E. Mills, Limited, Lr. Broughton Salford, Lancashire, England. Mackintoshes and showerproof coats, cloaks, capes, etc. 217,669; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.

Minot, Hooper & Co., New York, N. Y. Sheeting. 54,311; re-renewed June 26, 1946. O. G. Aug. 6. Class 42.

Minute Tapioca Company, Inc.: *See*— Whitman Grocery Company.

Moore Business Forms, Inc.: *See*— American Sales Book Company Limited. Carter-Crume Co. Limited, The.

Mukamal Company, New York, N. Y. Sugar. 422,694; Aug. 6; Serial No. 492,081; published May 7, 1946. Class 46.

National Silver Company, New York, N. Y. Sterling silver and silver plated flatware, hollow ware, and tableware. 422,722; Aug. 6; Serial No. 494,104; published May 7, 1946. Class 28.

Natural Vision Equipment Corporation, New York, N. Y. Cameras, motion picture cameras, sensitized photographic films, etc. 422,617; Aug. 6; Serial No. 465,847; published May 14, 1946. Class 26.

Nutt Bros., Los Angeles, Calif. Cookies and macaroons. 211,460; renewed Apr. 13, 1946. O. G. Aug. 6. Class 46.

Old Ben Coal Corporation, Chicago, Ill. Coal. 217,601; renewed Sept. 7, 1946. O. G. Aug. 6. Class 1.

Oliveros, Constant A., doing business as Oliveros Manufacturing Co., Houston, Tex. Bird calls. 422,678; Aug. 6; Serial No. 489,082; published May 14, 1946. Class 22.

Oliveros Manufacturing Co.: *See*— Oliveros, Constant A.

Pacific Mills, Boston, Mass., and New York, N. Y. Woolen fabrics in the piece. 422,699; Aug. 6; Serial No. 492,335; published Apr. 30, 1946. Class 42.

Packers Canning Company: *See*— Hirsch, Clement L.

Palmolive Company, The, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet and shaving soaps. 217,499; renewed Aug. 31, 1946. O. G. Aug. 6. Class 4.

Paragon Products Service: *See*— Schramm, Bernard G.

Phoenix Flour Mill, Evansville, Ind., to Igleheart Brothers Incorporated, New York, N. Y. Wheat-flour. 55,706; re-renewed Aug. 21, 1946. O. G. Aug. 6. Class 46.

Platt & Brahm Coal Co., Chicago, Ill. Coal. 217,581; renewed Sept. 7, 1946. O. G. Aug. 6. Class 1.

Pointer, Robert W., doing business as Pointer-Willamette Company, Portland, Oreg. Semi-trailers and full trailers. 422,672; Aug. 6; Serial No. 488,284; published May 14, 1946. Class 19.

Pointer-Willamette Company: *See*— Pointer, Robert W.

Precision Mechanical Laboratory: *See*— Leo, Paul.

Procter & Gamble Company, The: *See*— Haas, J. G., Soap Co.

Rain-Beau Products Company, Canton, Mass. Fishing lines. 422,682; Aug. 6; Serial No. 489,678; published May 14, 1946. Class 22.

Rand Rubber Company, Brooklyn, N. Y. Plastic sheet material. 422,644; Aug. 6; Serial No. 482,119; published May 7, 1946. Class 50.

Randolph, J., & Co.: *See*— Boettinger, Rudolph.

Raybestos-Manhattan, Inc., Passaic, N. J. Brake linings and clutch facings. 422,723; Aug. 6; Serial No. 494,360; published May 14, 1946. Class 35.

Reading Batteries, Inc., Reading and Temple, Pa. Storage batteries. 422,702; Aug. 6; Serial No. 492,463; published May 7, 1946. Class 21.

Rhodes, Ernest L., Co., Inc., Atlanta, Ga. Ladies' hats. 207,761; renewed Jan. 12, 1946. O. G. Aug. 6. Class 39.

Rite-Way Products Company, Chicago, Ill. Rotary vacuum pumps. 422,653; Aug. 6; Serial No. 483,874; published May 14, 1946. Class 23.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, sheeting, and pillow cases. 422,634–5; Aug. 6; Serial Nos. 479,196–7; published May 7, 1946. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, sheeting, and pillowcases. 422,636–7; Aug. 6; Serial Nos. 479,200–1; published Apr. 16, 1946. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, sheeting, and pillowcases. 422,638; Aug. 6; Serial No. 479,206; published May 7, 1946. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, sheeting, and pillowcases. 422,639; Aug. 6; Serial No. 479,207; published Apr. 16, 1946. Class 42.

Riverside & Dan River Cotton Mills, Inc., Danville, Va. Sheets, sheeting, and pillowcases. 422,640; Aug. 6; Serial No. 479,212; published Apr. 16, 1946. Class 42.

Robeson Process Company, New York, N. Y. Adhesive employed as a binder or bonding agent in the manufacture of briquetted coal, etc. 217,451; renewed Aug. 31, 1946. O. G. Aug. 6. Class 5.

Rubinowitz, Frank, Mfg. Co. Inc., New York, N. Y. Bath robes. 217,618; renewed Sept. 7, 1946. O. G. Aug. 6. Class 39.

Safeway Stores, Incorporated, assignee: *See*— Safeway Stores, Inc., of Nevada.

Safeway Stores, Inc., of Nevada, Reno, Nev., and Oakland, Calif., assignor to Safeway Stores, Incorporated, Oakland, Calif. Canned olives. 422,612; Aug. 6; Serial No. 456,569; published May 7, 1946. Class 46.

St. Paul Hydraulic Hoist Company, Minneapolis, Minn. Hydraulic operated units for raising or tilting truck bodies. 422,668; Aug. 6; Serial No. 487,487; published May 14, 1946. Class 23.

Schramm, Bernard G., doing business as Paragon Products Service, Toledo, Ohio. Pyrophoric lighters. 422,724; Aug. 6; Serial No. 494,575; published May 14, 1946. Class 34.

Schuckl & Co., Inc., doing business as Sunnyvale Packing Co., Sunnyvale, Calif. Canned soups. 422,683; Aug. 6; Serial No. 490,034; published May 7, 1946. Class 46.

Schulze and Burch Biscuit Co.: *See*— Schulze, Paul, Biscuit Co.

Schulze, Paul, Biscuit Co., to Schulze and Burch Biscuit Co., Chicago, Ill. Bakery goods described as cookies, cakes, and wafers. 216,841; renewed Aug. 24, 1946. O. G. Aug. 6. Class 46.

Schumacher, F., & Co.: *See*— Behrens, E. H., & Co.

Sears, Roebuck and Co., Chicago, Ill. Electric stock prods and electric water heaters. 422,616; Aug. 6; Serial No. 465,081; published May 7, 1946. Class 21.
Sears, Roebuck and Co., Chicago, Ill. Milk coolers and milk filter discs. 422,641; Aug. 6; Serial No. 479,533; published May 14, 1946. Class 31.
Security Products Corporation, Plainfield, N. J. Portable hand fire extinguishers. 422,697–8; Aug. 6; Serial Nos. 492,283–4; published May 14, 1946. Class 23.
Shapleigh Hardware Company: *See*—
Simmons Hardware Company.
Simmons Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Scythes and grasshooks. 56,116; re-renewed Aug. 28, 1946. O. G. Aug. 6. Class 23.
Simmons Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Scissors, shears, and hair-clippers. 56,153; re-renewed Aug. 28, 1946. O. G. Aug. 6. Class 23.
Simmons Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Drawing-knives and box-scrapers. 56,154; re-renewed Aug. 28, 1946. O. G. Aug. 6. Class 23.
Smidth, F. L., & Co., New York, N. Y. Portland cement. 216,099; renewed Aug. 3, 1946. O. G. Aug. 6. Class 12.
Speidel Corporation, Providence, R. I. Watch bracelets, not including watches. 422,701; Aug. 6; Serial No. 492,402; published May 14, 1946. Class 28.
Spring Tool and Machine Co., New York, N. Y. Pyrophoric cigarette lighters. 422,704; Aug. 6; Serial No. 492,664; published May 14, 1946. Class 34.
Standard Development Corporation, New York, N. Y. Asphalt composition. 422,610; Aug. 6; Serial No. 474,554; published May 14, 1946. Class 16.
Standard Oil Company, Louisville, Ky. Vapor oil, coal spray oil, fuel oil, and burner oil. 422,658; Aug. 6; Serial No. 485,662; published May 7, 1946. Class 15.
Standard Varnish Works, New York, to Standard Varnish Works, Staten Island, N. Y. Primers, surfacers or paint undercoatings, etc. 213,945; renewed June 8, 1946. O. G. Aug. 6. Class 16.
Standard Varnish Works, New York, to Standard Varnish Works, Staten Island, N. Y. Varnishes, paint enamels, lacquers, etc. 213,987; renewed June 8, 1946. O. G. Aug. 6. Class 16.
Stivers, James J., doing business as Humanatone Company, New York, to The Fred Gretsch Manufacturing Co., Brooklyn, N. Y. Nasal wind musical instrument. 208,915; renewed Feb. 9, 1946. O. G. Aug. 6. Class 36.
Stonecutter Mills Corporation, Spindale, N. C. Piece goods of rayon and/or cotton. 422,633; Aug. 6; Serial No. 478,770; published Mar. 26, 1946. Class 42.
Stratton, Archie T., doing business as Automotive Products Distributor, Ltd., Cleveland, Ohio. Lubricating oil for addition to gasoline, fuel oil, or cylinder oil. 422,620; Aug. 6; Serial No. 467,823; published May 7, 1946. Class 15.
Sun Garden Packing Co., San Jose, Calif. Canned fruits, canned vegetables, canned tomato paste, etc. 422,621; Aug. 6; Serial No. 468,480; published May 7, 1946. Class 46.
Sunnyvale Packing Co.: *See*—
Schuckl & Co., Inc.
Sunset Line & Twine Co., San Francisco, Calif. Fishing lines. 422,623; Aug. 6; Serial No. 471,059; published May 14, 1946. Class 22.
Superior Separator Company, Minneapolis, Minn. Tractor mounted loaders and stackers. 422,679; Aug. 6; Serial No. 489,422; published May 14, 1946. Class 23.
Surrette Storage Battery Co., Inc., Salem, Mass. Electrical storage batteries. 422,628; Aug. 6; Serial No. 477,045; published May 7, 1946. Class 21.
Syracuse Ornamental Co., Syracuse, N. Y. Plastic trays. 422,650; Aug. 6; Serial No. 483,240; published May 7, 1946. Class 2.
Takamine Laboratory, Inc., Clifton, N. J. Preparation to be used in bread making, etc. 214,330; renewed June 23, 1946. O. G. Aug. 6. Class 46.
Tarr & Wonson, Ltd., Gloucester, Mass. Preservative paint. 53,961–2; re-renewed June 19, 1946. O. G. Aug. 6. Class 16.
Tenalith Products, Inc., New York, N. Y. Tiles, bricks, wall coverings, and sheets. 422,721; Aug. 6; Serial No. 493,934; published May 14, 1946. Class 12.
Thomas, M & W, Co., New York, N. Y. Silk and rayon piece goods. 422,710; Aug. 6; Serial No. 492,971; published Apr. 30, 1946. Class 42.
Thomson-Porcelite Paint Co.: *See*—
Thomson Wood Finishing Co., The.
Thomson Wood Finishing Co., The, to Thomson-Porcelite Paint Co., Philadelphia, Pa. Varnishes, varnish stains, paint enamels, etc. 216,825; renewed Aug. 24, 1946. O. G. Aug. 6. Class 16.
Toch Brothers, New York, to Toch Brothers, Incorporated, Staten Island, N. Y. Damp-resisting paints. 54,799; re-renewed July 31, 1946. O. G. Aug. 6. Class 16.
Toch Brothers, Incorporated: *See*—
Toch Brothers.
Toch Brothers, Incorporated, New York, to Toch Brothers, Incorporated, Staten Island, N. Y. Waterproofing paint. 216,987; renewed Aug. 24, 1946. O. G. Aug. 6. Class 16.
Tupman Thurlow Sales Co., Inc., The, New York, N. Y., assignor to A/S L. E. Brunn Export, Copenhagen, Denmark. Cooked hams, cooked shoulders, cooked picnics, etc. 422,611; Aug. 6; Serial No. 445,024; published May 7, 1946. Class 46.
Union News Company, The, New York, N. Y. Chocolates. 215,493; renewed July 20, 1946. O. G. Aug. 6. Class 46.
United Advertising Corporation, New Haven, Conn. Charcoal broilers. 422,703; Aug. 6; Serial No. 492,599; published May 14, 1946. Class 34.
Universal Handicrafts Service Inc., New York, N. Y. Yarn winding frames. 422,655; Aug. 6; Serial No. 485,310; published May 7, 1946. Class 23.
Universal Ribbon Company, New York, N. Y. Ribbons. 422,686; Aug. 6; Serial No. 491,295; published Apr. 23, 1946. Class 42.
Utah Radio Products Company, assignor to International Detrola Corporation, Detroit, Mich. Sound recording and sound reproducing equipment. 422,652; Aug. 6; Serial No. 483,750; published May 7, 1946. Class 21.
Vandam, Albert H., Co., Inc., New York, N. Y. Textile fabrics in the piece. 422,654; Aug. 6; Serial No. 484,331; published May 7, 1946. Class 42.
Ventura Citrus Association, Ventura, Calif. Fresh citrus fruits. 213,061–3; renewed May 18, 1946. O. G. Aug. 6. Class 46.
Ventura Citrus Association, Ventura, Calif. Fresh citrous fruits. 217,374; renewed Aug. 31, 1946. O. G. Aug. 6. Class 46.
Vietmeyer Bros. Co.: *See*—
Vietmeyer Bros., Inc.
Vietmeyer Bros., Inc., to Vietmeyer Bros. Co., Jersey City, N. J. Bread. 204,139; renewed Oct. 6, 1945. O. G. Aug. 6. Class 46.
Vine, William: *See*—
Levine, William.
Waterbury Battery Company, The, Waterbury, Conn. Primary batteries and parts thereof. 216,123; renewed Aug. 3, 1946. O. G. Aug. 6. Class 21.
Waterbury Battery Company, The, Waterbury, Conn. Primary batteries and parts thereof. 217,583; renewed Sept. 7, 1946. O. G. Aug. 6. Class 21.
Weisenberg, Joseph M., New York, N. Y. Articles for infants. 422,718; Aug. 6; Serial No. 493,414; published May 7, 1946. Class 42.
Wesley & Winter, Inc., Newark, to Wesley & Winter, Inc., Linden, N. J. Writing paper and mailing envelopes. 216,537; renewed Aug. 10, 1946. O. G. Aug. 6. Class 37.
White Sewing Machine Corporation: *See*—
Mason, Albert G.
Whitman Grocery Company, Orange, Mass., to Minute Tapioca Company, Inc., New York, N. Y. Prepared gelatin. 56,183; re-renewed Aug. 28, 1946. O. G. Aug. 6. Class 46.
Wyckoff, N., doing business as Engravocraft Company, Chicago, Ill. Links made from precious and semi-precious metal. 422,684; Aug. 6; Serial No. 490,274; published Apr. 30, 1946. Class 28.
Yale Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 422,696; Aug. 6; Serial No. 492,244; published Apr. 30, 1946. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Old Ben Coal Corporation. 217,601; renewed Sept. 7, 1946. O. G. Aug. 6.
Coal. Platt & Brahm Coal Co. 217,581; renewed Sept. 7, 1946. O. G. Aug. 6.
Hops. E. Clemens Horst Company. 217,023; renewed Aug. 24, 1946. O. G. Aug. 6.

CLASS 2

Bags, Waterproof shipping. Bemis Bro. Bag Company. 422,691; Aug. 6; Serial No. 491,961; published May 14, 1946.
Cups, Paper. Knapway Devices, Inc. 422,720; Aug. 6; Serial No. 493,495; published May 14, 1946.
Trays, Plastic. Syracuse Ornamental Co. 422,650; Aug. 6; Serial No. 483,240; published May 7, 1946.

CLASS 3

Purses, wallets, and pocketbooks. King Leathers Incorporated. 422,716; Aug. 6; Serial No. 493,365; published May 14, 1946.

CLASS 4

Soap. Colgate & Co. 55,846; re-renewed Aug. 21, 1946. O. G. Aug. 6.

Soap, Collar and cuff. Davies-Young Soap Company. 217,508; renewed Aug. 31, 1946. O. G. Aug. 6.
Soap, Laundry. J. G. Haas Soap Co. 55,457; re-renewed Aug. 14, 1946. O. G. Aug. 6.
Soap, Toilet. Colgate & Company. 217,427; renewed Aug. 31, 1946. O. G. Aug. 6.
Soaps. Colgate & Co. 55,886; re-renewed Aug. 21, 1946. O. G. Aug. 6.
Soaps, Toilet and shaving. Palmolive Company. 217,449; renewed Aug. 31, 1946. O. G. Aug. 6.

CLASS 5

Adhesive employed as a binder or bonding agent in the manufacture of coal, etc. Robeson Process Company. 217,451; renewed Aug. 31, 1946. O. G. Aug. 6.

CLASS 6

Cod-liver oil, Emulsion of. Wm. S. Merrell Co. 213,748; renewed June 1, 1946. O. G. Aug. 6.
Wetting-out agents; emulsifying agents, and solvents, etc. J. G. Farbenindustrie Aktiengesellschaft. 216,879; renewed Aug. 24, 1946. O. G. Aug. 6.

CLASS 9

Ammunition, particularly paper caps for toy pistols. Kilgore Manufacturing Company. 196,278; renewed Mar. 17, 1945. O. G. Aug. 6.
Safety-matches, phosphoric matches, and matches of other kinds. Aktiebolaget Södertelje, Tändsticksfabrik. 54,699; re-renewal June 26, 1946. O. G. Aug. 6.

CLASS 12

Brick, Standard refractory. General Refractories Company. 422,618; Aug. 6; Serial No. 466,282; published May 14, 1946.
Cement, Portland. F. L. Smidth & Co. 216,099; renewed Aug. 3, 1946. O. G. Aug. 6.
Cement, Roof. Dominion Chemical Co., Inc. 422,706; Aug. 6; Serial No. 492,693; published May 14, 1946.
Fibre base composition boards and panels, Coated and uncoated. Arvey Corporation. 422,643; Aug. 6; Serial No. 481,603; published May 14, 1946.
Heat-insulating materials. Johns-Manville, Incorporated. 212,154; renewed Apr. 27, 1946. O. G. Aug. 6.
Pipe covering, Sectional. Johns-Manville, Incorporated. 210,529; renewed Mar. 16, 1946. O. G. Aug. 6.
Reticular metallic base covered with a thin transparent or translucent elastic body or film firmly adhering to the strands of said base and used in the construction of temporary buildings of all sorts, etc., An article of manufacture comprising a. Cello Products Incorporated. 210,481; renewed Mar. 16, 1946. O. G. Aug. 6.
Tiles, bricks, wall coverings and sheets. Tenalith Products, Inc. 422,721; Aug. 6; Serial No. 493,934; published May 14, 1946.

CLASS 13

Aluminum ware, Household. Brewster Aeronautical Corporation. 422,713; Aug. 6; Serial No. 493,099; published May 7, 1946.
Bathtubs, portable showers, shower receptors, and laundry trays. H. Grossman. 422,659; Aug. 6; Serial No. 485,817; published May 7, 1946.
Chains, Conveyor. Inland Engineering Company. 214,896; renewed July 6, 1946. O. G. Aug. 6.
Fastenings of the following nature: secrews—wood, lag, cap; bolts, nuts, etc. Continental Screw Company. 422,631; Aug. 6; Serial No. 477,971; published May 7, 1946.

CLASS 15

Oil, coal spray oil, fuel oil, and burner oil, Vapor. Standard Oil Company. 422,658; Aug. 6; Serial No. 485,662; published May 7, 1946.
Oil for addition to gasoline, fuel oil, or cylinder oil, Lubricating. A. T. Stratton. 422,620; Aug. 6; Serial No. 467,823; published May 7, 1946.
Oils and greases, Lubricating. Brownell Corporation. 207,921; renewed Jan. 12, 1946. O. G. Aug. 6.
Oils, pine oils, and pine-tar oil, Flotation. L. Y. Clark. 217,392; renewed Aug. 31, 1946. O. G. Aug. 6.

CLASS 16

Asphalt composition. Standard Development Corporation. 422,610; Aug. 6; Serial No. 474,554; published May 14, 1946.
Paint lacquers and enamels. John Lucas & Company Incorporated. 207,321; renewed Dec. 29, 1945. O. G. Aug. 6.
Paint, Preservative. Tarr & Wonson, Ltd. 53,961–2; re-renewed June 19, 1946. O. G. Aug. 6.
Paint, Waterproofing. Toch Brothers, Incorporated. 216,987; renewed Aug. 24, 1946. O. G. Aug. 6.
Paints, Damp-resisting. Toch Brothers. 54,799; re-renewed July 31, 1946. O. G. Aug. 6.
Primers, surfacers, or paint undercoatings, etc. Standard Varnish Works. 213,945; renewed June 8, 1946. O. G. Aug. 6.
Varnishes, paint enamels, lacquers, etc. Standard Varnish Works. 213,987; renewed June 8, 1946. O. G. Aug. 6.
Varnishes, varnish stains, paint enamels, etc. Thomson Wood Finishing Co. 216,825; renewed Aug. 24, 1946. O. G. Aug. 6.

CLASS 19

Brake rigging, brake heads, brake beams, etc. American Steel Foundries. 217,699; renewed Sept. 7, 1946. O. G. Aug. 6.
Semi-trailers and full trailers. R. W. Pointer. 422,672; Aug. 6; Serial No. 488,284; published May 14, 1946.
Vehicle bodies, boats for rowing, etc., barges, etc., Automotive express. Columbian Steel Tank Company. 422,632; Aug. 6; Serial No. 478,497; published May 14, 1946.

CLASS 21

Airplanes and airplane parts. Duramold Aircraft Corporation. 422,619; Aug. 6; Serial No. 466,345; published Apr. 30, 1946.
Batteries and parts thereof, Primary. Waterbury Battery Company. 216,123; renewed Aug. 3, 1946. O. G. Aug. 6.
Batteries and parts thereof, Primary. Waterbury Battery Company. 217,583; renewed Sept. 7, 1946. O. G. Aug. 6.
Electric stock prods and electric water heaters. Sears, Roebuck and Co. 422,616; Aug. 6; Serial No. 465,081; published May 7, 1946.
Electrical storage batteries. Surrette Storage Battery Co., Inc. 422,628; Aug. 6; Serial No. 477,045; published May 7, 1946.
Rheostats and resistance devices. Central Radio Laboratories. 217,658; renewed Sept. 7, 1946. O. G. Aug. 6.
Sound recording and sound reproducing equipment. Utah Radio Products Company. 422,652; Aug. 6; Serial No. 483,750; published May 7, 1946.
Storage batteries. Reading Batteries, Inc. 422,702; Aug. 6; Serial No. 492,463; published May 7, 1946.
Stoves, electric food tables, electric coffee urns, etc., Electric. Dohrmann Hotel Supply Co. 422,669; Aug. 6; Serial No. 487,601; published May 14, 1946.

CLASS 22

Bird calls. C. A. Oliveros. 422,678; Aug. 6; Serial No. 489,082; published May 14, 1946.
Fishing lines. Rain-Beau Products Company. 422,682; Aug. 6; Serial No. 489,678; published May 14, 1946.
Fishing lines. Sunset Line & Twine Co. 422,623; Aug. 6; Serial No. 471,059; published May 14, 1946.
Golf balls. McDonald & Son Golf Ball Co. 422,660–1; Aug. 6; Serial Nos. 486,051–2; published May 14, 1946.
Toy animals, Stuffed. G. Borgfeldt & Co. 215,256; renewed July 13, 1946. O. G. Aug. 6.

CLASS 23

Blades, Hack saw. G. W. Griffin Co. 422,692; Aug. 6; Serial No. 492,042; published May 7, 1946.
Casting machines, Centrifugal. W. T. Anderson. 422,657; Aug. 6; Serial No. 485,469; published May 14, 1946.
Clamps, toggle pliers, mechanical arbor spacers, etc., Toggle. Detroit Stamping Company. 422,613; Aug. 6; Serial No. 458,364; published May 7, 1946.
Conveying apparatus, Portable power-driven belt. Coaltoter Conveyer Co. 422,626; Aug. 6; Serial No. 475,837; published May 7, 1946.
Degreasers. Circo Products Company. 422,647; Aug. 6; Serial No. 482,611; published May 7, 1946.
Degreasers. Circo Products Company. 422,648; Aug. 6; Serial No. 482,612; published May 14, 1946.
Drawing-knives and box-scrapers. Simmons Hardware Company. 56,154; re-renewed Aug. 28, 1946. O. G. Aug. 6.
Fire extinguishers, Portable hand. Security Products Corporation. 422,697–8; Aug. 6; Serial Nos. 492,283–4; published May 14, 1946.
Frames, Yarn winding. Universal Handicrafts Service Inc. 422,655; Aug. 6; Serial No. 485,310; published May 7, 1946.
Hoists, Overhead electric traveling-trunk. R. R. Howell Co. 422,603; Aug. 6; Serial No. 492,051; published May 7, 1946.
Hydraulic operated units for raising or tilting truck bodies. St. Paul Hydraulic Hoist Company. 422,668; Aug. 6; Serial No. 487,487; published May 14, 1946.
Jacks and cylinders and rams, Hydraulic. March Engineering Company. 422,685; Aug. 6; Serial No. 490,541; published May 14, 1946.
Loaders and stackers, Tractor mounted. Superior Separator Company. 422,679; Aug. 6; Serial No. 489,422; published May 14, 1946.
Presses, hose-making machines, rubber calenders, etc., Hydraulic rubber. Farrel-Birmingham Company, Incorporated. 422,642; Aug. 6; Serial No. 481,180; published May 7, 1946.
Pumps, Rotary vacuum. Rite-Way Products Company. 422,653; Aug. 6; Serial No. 483,874; published May 14, 1946.
Repair parts for trench-excavating machines, concaves, jaw plates, etc. Inland Engineering Company. 217,278; renewed Aug. 31, 1946. O. G. Aug. 6.
Scissors, shears, and hair-clippers. Simmons Hardware Company. 56,153; re-renewed Aug. 28, 1946. O. G. Aug. 6.
Scythes and grasshooks. Simmons Hardware Company. 56,116; re-renewed Aug. 28, 1946. O. G. Aug. 6.

Sewing-machines, sewing-machine covers, tables, etc., Oscillating, rotating, and vibrating shuttle or looper. A. G. Mason. 56,288; re-renewed Aug. 28, 1946. O. G. Aug. 6.
Sharpener and a combination kitchen tool, etc., Non-abrasive knife. R. Boettinger. 422,677; Aug. 6; Serial No. 488,846; published May 7, 1946.
Special machines. Designers for Industry, Inc. 422,629; Aug. 6; Serial No. 477,101; published May 7, 1946.
Tool, Hand operated cutting. H. R. Basford Co. 422,662; Aug. 6. Serial No. 486,136; published May 14, 1946.
Tools and electrical pole-line construction tools, Logging. Leach Company. 214,035; renewed June 8, 1946. O. G. Aug. 6.
Tools, Machine cutting. P. Leo. 422,676; Aug. 6; Serial No. 488,763; published May 7, 1946.
Tools, Oil well. Eastman Oil Well Survey Company. 422,666; Aug. 6; Serial No. 487,075; published May 7, 1946.

CLASS 24

Laundry equipment. Appliance Manufacturing Company. 422,630; Aug. 6; Serial No. 477,832; published May 7, 1946.

CLASS 25

Locks. Crypto Locks Inc. 422,719; Aug. 6; Serial No. 493,483; published May 7, 1946.

CLASS 26

Calipers, dividers, and try-squares. Brown & Sharpe Manufacturing Company. 56,130; re-renewed Aug. 28, 1946. O. G. Aug. 6.
Camera attachments and accessories. Kalart Company, Inc. 422,688; Aug. 6; Serial No. 491,575; published May 7, 1946.
Cameras, motion picture cameras, sensitized photographic films, etc. Natural Vision Equipment Corporation. 422,617; Aug. 6; Serial No. 465,847; published May 14, 1946.
Cameras, photo printing frames and boxes, photo trimming boards, etc. Heckethorn Manufacturing & Supply Co. 422,670; Aug. 6; Serial No. 487,619; published May 7, 1946.
Films carrying sound recordings, Motion picture. W. Levine. 422,649; Aug. 6; Serial No. 483,073; published May 7, 1946.

CLASS 27

Links made from precious and semi-precious metal. N. Wyckoff. 422,684; Aug. 6; Serial No. 490,274; published Apr. 30, 1946.
Watches and parts thereof. Manufacture des Montres Universal Perret et Berthoud S. A. (Universal Watch Factory, Perret & Berthoud Ltd.). 422,614; Aug. 6; Serial No. 462,418; published Apr. 30, 1946.

CLASS 28

Bracelets, not including watches, Watch. Speidel Corporation. 422,701; Aug. 6; Serial No. 492,402; published May 14, 1946.
Brooches, earrings, pins, etc. P. R. Freyd. 422,664; Aug. 6; Serial No. 486,762; published May 14, 1946.
Earrings. P. & A. Linton Co. Inc. 210,023; renewed Mar. 9, 1946. O. G. Aug. 6.
Earrings. P. & A. Linton Co., Inc. 210,804; renewed Mar. 23, 1946. O. G. Aug. 6.
Flatware, hollow ware, and tableware, Sterling silver and silver-plated. National Silver Company. 422,722; Aug. 6; Serial No. 494,104; published May 7, 1946.
Jewelry, Costume. Byck Bros. & Company, Incorporated. 422,689; Aug. 6; Serial No. 491,624; published May 7, 1946.
Jewelry, Costume. L. G. Meyers. 422,714–15; Aug. 6; Serial Nos. 493,270–1; published May 7, 1946.
Rings, Finger. A. Hirsch Company. 422,671; Aug. 6; Serial No. 487,620; published May 14, 1946.
Stays, Collar. Crest Specialty, Not Inc. 422,690; Aug. 6; Serial No. 491,807; published May 7, 1946.

CLASS 29

Brushes, Hair. Empire Brush Works. 422,645–6; Aug. 6; Serial Nos. 482,525–6; published May 14, 1946.
Puffs and powder mitts, Powder. Merita, Inc. 422,717; Aug. 6; Serial No. 493,378; published May 7, 1946.

CLASS 31

Coolers and milk filter discs, Milk. Sears, Roebuck and Co. 422,641; Aug. 6; Serial No. 479,533; published May 14, 1946.

CLASS 32

Mattresses and box springs. Fort Pitt Bedding Company. 422,673; Aug. 6; Serial No. 488,517; published May 14, 1946.
Mattresses and box springs. Fort Pitt Bedding Company. 422,674; Aug. 6; Serial No. 488,520; published May 14, 1946.

CLASS 34

Broilers, Charcoal. United Advertising Corporation. 422,703; Aug. 6; Serial No. 492,599; published May 14, 1946.
Burners, Oil. Independent Oil Burner Corp. 422,675; Aug. 6; Serial No. 488,694; published May 14, 1946.
Eliminating device, Air. Bell & Gossett Company. 422,624; Aug. 6; Serial No. 472,498; published May 14, 1946.
Lighters, Pyrophoric. B. G. Schramm. 422,724; Aug. 6; Serial No. 494,575; published May 14, 1946.
Lighters, Pyrophoric cigarette. Spring Tool and Machine Co. 422,704; Aug. 6; Serial No. 492,664; published May 14, 1946.

CLASS 35

Flax packing. Johns-Manville, Incorporated. 212,510; renewed May 4, 1946. O. G. Aug. 6.
Hose, Rubber-covered. B. F. Goodrich Company. 210,614; renewed Mar. 16, 1946. O. G. Aug. 6.
Leathers for well valves, Cup. C. Mark & Company. 216,075; renewed Aug. 3, 1946. O. G. Aug. 6.
Linings and clutch facings, Brake. Raybestos-Manhattan, Inc. 422,723; Aug. 6; Serial No. 494,360; published May 14, 1946.
Tires, Rubber vehicle. B. F. Goodrich Company. 210,383; renewed Mar. 16, 1946. O. G. Aug. 6.

CLASS 36

Musical instrument, Nasal wind. J. J. Stivers. 208,915; renewed Feb. 9, 1946. O. G. Aug. 6.

CLASS 37

Lead-pencils. Eagle Pencil Company. 55,058–62; renewed Aug. 7, 1946. O. G. Aug. 6.
Paper and mailing envelopes, Writing. Wesley & Winter, Inc. 216,537; renewed Aug. 10, 1946. O. G. Aug. 6.
Paper sheets, strips, rolls, etc. American Sales Book Company Limited. 210,442; renewed Mar. 16, 1946. O. G. Aug. 6.
Registers, Autographic. Carter-Crume Co. Limited. 50,346; re-renewed Mar. 13, 1946. O. G. Aug. 6.
Sales-slip books and paper pads therefor, Duplicate, etc. Carter-Crume Co. Limited. 50,583; re-renewed Mar. 27, 1946. O. G. Aug. 6.
Tips for lead-pencils, Metallic. Eagle Pencil Company. 52,807; re-renewed May 15, 1946. O. G. Aug. 6.

CLASS 39

Capes, men's and women's coats; children's play coats, hats, etc. Boott Mills. 217,729; renewed Sept. 7, 1946. O. G. Aug. 6.
Clothing, Workingmen's. Larned, Carter and Company. 217,784; renewed Sept. 7, 1946. O. G. Aug. 6.
Dresses. E. H. Behrens & Co. Inc. 217,615; renewed Sept. 7, 1946. O. G. Aug. 6.
Dresses, Women's. S. Kann Sons Company. 216,374; renewed Aug. 10, 1946. O. G. Aug. 6.
Hats, Ladies'. Ernest L. Rhodes Co., Inc. 207,761; renewed Jan. 12, 1946. O. G. Aug. 6.
Hosiery. Louisiana Paper Company, Ltd. 215,880; renewed July 27, 1946. O. G. Aug. 6.
Mackintoshes and showerproof coats, cloaks, capes, etc. H. E. Mills, Limited. 217,669; renewed Sept. 7, 1946. O. G. Aug. 6.
Robes, Bath. F. Rubinowitz Mfg. Co. Inc. 217,618; renewed Sept. 7, 1946. O. G. Aug. 6.
Shoes, Ladies', misses', and children's. S. Kann Sons Company. 215,864; renewed July 27, 1946. O. G. Aug. 6.
Shoes, Leather. C. Meis Shoe Company. 217,625; renewed Sept. 7, 1946. O. G. Aug. 6.

CLASS 42

Articles for infants. J. M. Weisenberg. 422,718; Aug. 6; Serial No. 493,414; published May 7, 1946.
Fabric in the piece, Textile. Crest Fabrics Corp. 422,695; Aug. 6; Serial No. 492,181; published Apr. 30, 1946.
Fabrics in the piece, Textile. Meadtex Fabrics Co. 422,707; Aug. 6; Serial No. 492,725; published Apr. 30, 1946.
Fabrics in the piece, Textile. Meadtex Fabrics Co. 422,708; Aug. 6; Serial No. 492,729; published May 7, 1946.
Fabrics in the piece, Textile. Meadtex Fabrics Co. 422,712; Aug. 6; Serial No. 493,069; published Apr. 30, 1946.
Fabrics in the piece, Textile. Albert H. Vandam Co., Inc. 422,654; Aug. 6; Serial No. 484,331; published May 7, 1946.
Fabrics in the piece, Textile. Yale Fabrics Corp. 422,696; Aug. 6; Serial No. 492,244; published Apr. 30, 1946.
Fabrics in the piece, Woolen. Pacific Mills. 422,699; Aug. 6; Serial No. 492,335; published Apr. 30, 1946.
Jersette rayon print materials. Arthur S. Helman, Inc. 422,615; Aug. 6; Serial No. 464,921; published Jan. 11, 1944.
Piece goods. Henrose Co. Inc. 422,625; Aug. 6; Serial No. 474,751; published Feb. 13, 1945.
Piece goods of cotton, rayon, wool, etc. Cohn-Hall-Marx Co. 422,705; Aug. 6; Serial No. 492,684; published Apr. 30, 1946.
Piece goods of cotton, rayon, wool, etc., or combinations thereof. Cohn-Hall-Marx Co. 422,711; Aug. 6; Serial No. 493,043; published Apr. 30, 1946.
Piece goods of rayon and/or cotton. Stonecutter Mills Corporation. 422,633; Aug. 6; Serial No. 478,770; published Mar. 26, 1946.
Rayon piece goods. David Crystal Inc. 422,627; Aug. 6; Serial No. 475,946; published Feb. 27, 1945.

Ribbons. Universal Ribbon Company. 422,686; Aug. 6; Serial No. 491,295; published Apr. 23, 1946.
Rugs, Grass. Deltox Rug Company. 217,160; renewed Aug. 24, 1946. O. G. Aug. 6.
Sheeting, Minot. Hooper & Co. 54,311; re-renewed June 26, 1946. O. G. Aug. 6.
Sheets, sheeting, and pillow cases. Riverside & Dan River Cotton Mills, Inc. 422,634–5; Aug. 6; Serial Nos. 479,196–7; published May 7, 1946.
Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 422,636–7; Aug. 6; Serial Nos. 479,200–1; published Apr. 16, 1946.
Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 422,638; Aug. 6; Serial No. 479,206; published May 7, 1946.
Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 422,639; Aug. 6; Serial No. 479,207; published Apr. 16, 1946.
Sheets, sheeting, and pillowcases. Riverside & Dan River Cotton Mills, Inc. 422,640; Aug. 6; Serial No. 479,212; published Apr. 16, 1946.
Silk and rayon piece goods. M & W Thomas Co. 422,710; Aug. 6; Serial No. 492,971; published Apr. 30, 1946.
Textile fabrics in the piece. Benrose Fabrics Corporation. 422,622; Aug. 6; Serial No. 469,145; published May 1, 1945.
Textile fabrics in the piece, of wool, worsted, cotton, etc. B. W. Harris Manufacturing Co., Inc. 422,700; Aug. 6; Serial No. 492,374; published May 14, 1946.
Textile piece goods. Balstone, Cooke & Rayonese Limited. 422,680; Aug. 6; Serial No. 489,433; published Mar. 26, 1946.
Woolen piece goods of pure new wool, Woven. Lowe, Donald and Company, Limited. 422,667; Aug. 6; Serial No. 487,088; published Feb. 26, 1946.

CLASS 44

Masks to prevent the inhaling of dust and other deleterious matter, etc., Dust. Engineering Products Corporation, Incorporated. 216,531; renewed Aug. 10, 1946. O. G. Aug. 6.

CLASS 46

Bakery goods described as cookies, cakes, and wafers. Paul Schulze Biscuit Co. 216,841; renewed Aug. 24, 1946. O. G. Aug. 6.
Bread. Vietmeyer Bros., Inc. 204,139; renewed Oct. 6, 1945. O. G. Aug. 6.
Canned bean sprout chop suey vegetables and canned bean sprouts. Bean Sprout Growers' Association. 422,687; Aug. 6; Serial No. 491,308; published May 7, 1946.
Canned dog and cat food. Clement L. Hirsch. 422,726; Aug. 6; Serial No. 495,141; published May 14, 1946.
Canned fruits, canned vegetables, canned tomato paste, etc. Sun Garden Packing Co. 422,621; Aug. 6; Serial No. 468,480; published May 7, 1946.
Canned olives. Safeway Stores, Inc., of Nevada. 422,612; Aug. 6; Serial No. 456,569; published May 7, 1946.
Canned soups. Schuckl & Co., Inc. 422,683; Aug. 6; Serial No. 490,034; published May 7, 1946.
Chocolates. Union News Company. 215,493; renewed July 20, 1946. O. G. Aug. 6.
Cocoa, chocolate, broma, and cocoa preparations. Walter Baker & Company Limited. 55,841; re-renewed Aug. 21, 1946. O. G. Aug. 6.
Coffee. Merchants Coffee Co., of New Orleans, Ltd. 422,725; Aug. 6; Serial No. 494,856; published May 14, 1946.
Cookies and macaroons. Nutt Bros. 211,460; renewed Apr. 13, 1946. O. G. Aug. 6.
Flour, Self-rising. Dunlop Milling Company. 214,832; renewed July 6, 1946. O. G. Aug. 6.
Fruits, Fresh citrus. Lake Hamilton Cooperative, Inc. 422,651; Aug. 6; Serial No. 483,535; published May 7, 1946.
Fruits, Fresh citrous. Ventura Citrus Association. 213,061–3; renewed May 18, 1946. O. G. Aug. 6.
Fruits, Fresh citrous. Ventura Citrus Association. 217,374; renewed Aug. 31, 1946. O. G. Aug. 6.
Gelatin, Prepared. Whitman Grocery Company. 56,183; re-renewed Aug. 28, 1946. O. G. Aug. 6.
Gelatine. American Glue Co. 50,675; re-renewed Mar. 27, 1946. O. G. Aug. 6.
Hams, cooked shoulders, cooked picnics, etc., Cooked. Tupman Thurlow Sales Co., Inc. 422,611; Aug. 6; Serial No. 445,024; published May 7, 1946.
Oleomargarine. John F. Jelke Company. 422,665; Aug. 6; Serial No. 486,785; published May 14, 1946.
Poultry, baby chicks, and eggs, Live. O. A. Carter. 216,940; renewed Aug. 24, 1946. O. G. Aug. 6.
Powder base for making imitation banana flavored pudding. Improved Products, Incorporated. 422,663; Aug. 6; Serial No. 486,372; published May 14, 1946.
Preparation to be used in bread making, etc. Takamine Laboratory, Inc. 214,330; renewed June 23, 1946. O. G. Aug. 6.
Sugar. Mukamal Company. 422,694; Aug. 6; Serial No. 492,081; published May 7, 1946.
Syrup and corn syrup, Blend of cane. Hall Grain Company. 422,681; Aug. 6; Serial No. 489,582; published May 7, 1946.
Toffee. John Farrah & Harrogate Toffee, Limited. 210,992; renewed Mar. 30, 1946. O. G. Aug. 6.
Toffee, ginger nuts, chocolates. John Farrah & Harrogate Toffee, Limited. 210,991; renewed Mar. 30, 1946. O. G. Aug. 6.
Wheat-flour. Phoenix Flour Mill. 55,706; re-renewed Aug. 21, 1946. O. G. Aug. 6.

CLASS 50

Coverings for surfaces of receptacles, etc., Sheet-rubber. B. F. Goodrich Company. 212,041; renewed Apr. 27, 1946. O. G. Aug. 6.
Fabrics in strips, sheets or continuous rolls, Woven or other. Leonard Freedman & Sons. 422,656; Aug. 6; Serial No. 485,404; published May 7, 1946.
Sheet material, Plastic. Rand Rubber Company. 422,644; Aug. 6; Serial No. 482,119; published May 7, 1946.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Scholes, Richard T., Hinsdale, Ill. Rail fastening means. Re. 22,776; Aug. 6.

LIST OF DESIGN PATENTEES

American Metal Crafts Company, assignee: *See*—
Kelliher, Thomas.

Anderson, Fred E., Sheridan, Oreg. Portable power driven hand tool unit. 145,346; Aug. 6.

Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 145,347; Aug. 6.

Bigelow, Charles A., Houston, Tex. Aircraft tire. 145,348; Aug. 6.

Brunetti, Joseph, Carlstadt, assignor to Plastic Art Toy Corporation of America, Rutherford, N. J. Fork or similar article. 145,349; Aug. 6.

Cherneff, Leonard D., Seattle, Wash. Combined wall clock, money bank, and calendar. 145,350; Aug. 6.

Collura, Francesco, New York, N. Y., assignor to Telechron Inc. Alarm clock. 145,351; Aug. 6.

Collura, Francesco, New York, N. Y., assignor to Telechron Inc. Clock or similar article. 145,352; Aug. 6.

Collura, Francesco, New York, N. Y., assignor to Telechron Inc. Alarm clock. 145,353; Aug. 6.

Corso, Alice V., New York, N. Y. Tablecloth or similar article. 145,354; Aug. 6.

Dubinsky, Jack, and A. Insko, Chicago, Ill. Bracelet link or similar article. 145,355; Aug. 6.

Ideal Plastic Corporation, assignee: *See*—
Manovill, Alfred C.

Insko, Andrew: *See*—
Dubinsky, Jack, and Insko.

Jantzen Knitting Mills, assignee: *See*—
Wiechmann, Berté A.

Kelliher, Thomas, assignor to American Metal Crafts Company, Attleboro, Mass. Bracelet. 145,356; Aug. 6.

Lambert, Robert, Fullerton, Nebr. Watch bracelet. 145,357; Aug. 6.

Mandl, Rudi W., Long Island City, N. Y. Picture frame or similar article. 145,358; Aug. 6.

Manovill, Alfred C., New York, assignor to Ideal Plastic Corporation, Long Island City, N. Y. Plastic unit for handbags or the like. 145,359; Aug. 6.

Martucci, Claudia, San Francisco, Calif. Cosmetic cup. 145,360; Aug. 6.

Plastic Art Toy Corporation of America, assignee: *See*—
Brunetti, Joseph.

R-W Manufacturing Company, assignee: *See*—
Rains, Robert S.

Rains, Robert S., assignor to R-W Manufacturing Company, Los Angeles, Calif. Work-illuminating tool. 145,361; Aug. 6.

Rice, Martin R., Birmingham, Ala. Game board. 145,362; Aug. 6.

Rohner, Ludwig G., New York, N. Y. Tablecloth or similar article. 145,363; Aug. 6.

Rubin, Lewis J., assignor to Universal Camera Corporation, New York, N. Y. Slide projector. 145,364; Aug. 6.

Stephens, Joseph, Inglewood, Calif. Door knocker. 145,365; Aug. 6.

Stollsteimer, Frederick J., Miami Beach, Fla. Hanging flower vase. 145,366; Aug. 6.

Telechron Inc., assignee: *See*—
Collura, Francesco.

Thomsen, Jack W., Chicago, Ill. Compact. 145,367; Aug. 6.

Universal Camera Corporation, assignee: *See*—
Rubin, Lewis J.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,368; Aug. 6.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,369; Aug. 6.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,370; Aug. 6.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,371; Aug. 6.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,372; Aug. 6.

Wiechmann, Berté A., Portland, Oreg., assignor to Jantzen Knitting Mills. Sweater. 145,373; Aug. 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrams, Cecil P., Anoka, Minn. Apparatus for inspecting manufactured articles. 2,405,483; Aug. 6.
Acco Products, Inc., assignee: *See*—
Kern, Emil.
Aero Engineering Corporation, assignee: *See*—
Briner, Emil A.
Aerojet Engineering Corporation, assignee: *See*—
Summerfield, Martin.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Butz, Lewis W.
Nudenberg, Walter.
Aircraft Marine Products, Inc., assignee: *See*—
Carlson, Vernon E., and Freedom.
Airways Lighting Corporation, assignee: *See*—
Lamb, Clyde K.
Aktiengesellschaft Brown, Boveri & Cie., assignee: *See*—
Giger, Walter.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Transmission control network. 2,405,174; Aug. 6.
Allied Chemical & Dye Corporation, assignee: *See*—
Greenberg, Richard B.
Aluminum Company of America, assignee: *See*—
Stowe, Vernon M.
Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill. Receptacle dispensing carton. 2,405,107; Aug. 6.
American Air Filter Company, Inc., assignee: *See*—
Dahlman, Verner.
American Can Company, assignee: *See*—
Bierman, George H.
Goodrich, Frank W.
Nordquist, Ronald E. J.
American Cyanamid & Chemical Corporation, assignee: *See*—
Clark, Le Roy V.
American Cyanamid Company, assignee: *See*—
Kienle, Roy H., and Amick.
Mensing, Carl E.
Pepper, Foster L.
Royer, George L., and Stearns.
American Isteg Steel Corporation, assignee: *See*—
Stites, Joseph D.
American-La France-Foamite Corporation, assignee: *See*—
White, Clifford B.
American Telephone and Telegraph Company, assignee: *See*—
Bemis, Edwin W.
Schroeppel, Harold H.
Willis, Milton P.
American Viscose Corporation, assignee: *See*—
Richardson, Arthur B., and Thompson.
Amick, Chester A.: *See*—
Kienle, Roy H., and Amick.
Anderson, Alva E., New York, N. Y., and A. L. Samuel, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency oscillator. 2,405,175; Aug. 6.
Anderson, Edwin F., Buffalo, N. Y., assignor to Pillsbury Flour Mills Company, Minneapolis, Minn. Bag waxing machine. 2,405,391; Aug. 6.
Appleford Paper Products, Ltd., assignee: *See*—
Smith, Ernest.
Armour and Company, assignee: *See*—
Josh, George.
Asiatic Petroleum Company, Limited, The: *See*—
Lubbock, Isaac, Gollin, Lindsay, and Poole.
Atchison, Leonard W., Schenectady, N. Y., assignor to General Electric Company. Refrigerating apparatus. 2,405,392; Aug. 6.
Atkins, George T., Jr., Highlands, Tex., assignor to Standard Oil Development Company. Batch distillation. 2,405,393; Aug. 6.
Augsburger, Dale: *See*—
Jack, Delbert E., and Augsburger.
Austin, Dwight E., Kent, Ohio, assignor to General Motors Corporation, Detroit, Mich. Coach body. 2,405,394; Aug. 6.
Autogiro Company of America, assignee: *See*—
Campbell, Harris S.
Stanley, Paul H.
Automatic Pump & Softener Corporation, assignee: *See*—
Whitlock, Fred W.
Automotive Products Company, Limited, assignee: *See*—
Brock, William H. J.
Aviation Corporation, The, assignee: *See*—
Faust, William S., and Lavo.

Bahlke, William H., Chicago, and M. T. Carpenter, Flossmoor, assignors to Standard Oil Company, Chicago, Ill. Acetylene process. 2,405,395; Aug. 6.
Ballhe, George, Brooklyn, N. Y. Combination cushion and life preserver. 2,405,484; Aug. 6.
Baker, Richard F.: *See*—
Hillier, James, and Baker.
Baker-Roos, Inc., assignee: *See*—
Negovan, Albert, Stratton, and Roggie.
Barber, Roy E., Berkeley, Calif. Safety clip. 2,405,176; Aug. 6.
Bardons and Oliver, Inc., assignee: *See*—
Kylin, Oskar and H. O., and Valentino.
Barium Steel Corporation, assignee: *See*—
Smith, Arthur D.
Barkstrom, Elmer E., Chicago, and L. Williams, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,405,485; Aug. 6.
Barnard, Oral E., Montreal, Quebec, assignor to Dominion Merchants Company Limited, St. Laurent, Quebec, Canada. Automatic fire extinguisher. 2,405,125; Aug. 6.
Batchelder, George W., Mantua, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of tetryl. 2,405,340; Aug. 6.
Bates, John E., Lansing, Mich. Control means for fuel feed systems. 2,405,126; Aug. 6.
Bauer, Philip J., Basic Township, Nev. Sampling machine. 2,405,486; Aug. 6.
Baumgartner, Richard A.: *See*—
Sharpe, Donald B., and Baumgartner.
Bazley, Carl E., Schenectady, N. Y., assignor to General Electric Company. Electromagnet. 2,405,396; Aug. 6.
Beach, Justice H., Canton, assignor to The Hoover Company, North Canton, Ohio. Valve. 2,405,127; Aug. 6.
Bear Brand Hosiery Co., assignee: *See*—
Nyhuis, Bert.
Beckett, John C., U. S. Navy. Stud welding. 2,405,177; Aug. 6.
Bedford, Alda V., Princeton, and K. R. Wendt, Hightstown, N. J., assignors to Radio Corporation of America. Signal correction circuit. 2,405,280; Aug. 6.
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric circuit. 2,405,397; Aug. 6.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Anderson, Alva E., and Samuel.
Black, Robert, Jr., and Romanow.
Blattner, David G., and Clayden.
Bollman, John H.
Davis, Gustoff W.
Dehn, Joseph W., and Goddard.
Harry, William R.
Hartley, Ralph V. L.
Holbrook, Bernard D., and Logan.
Inglis, Alfred H.
Mason, Warren P.
Myers, Oscar.
Newhouse, Russell C.
Southworth, George C.
Watson, Edward F.
Bemis, Edwin W., East Orange, N. J., assignor to American Telephone and Telegraph Company. Object locater. 2,405,281; Aug. 6.
Bendix Aviation Corporation, assignee: *See*—
Lehman, Samuel K., and Taylor.
Neild, William G.
Benioff, Hugo, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass. Sound transmitter and receiver. 2,405,185; Aug. 6.
Benioff, Hugo, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass. Piezoelectric vibrator. 2,405,186; Aug. 6.
Benioff, Hugo, La Canada, Calif., assignor to Submarine Signal Company, Boston, Mass. Piezoelectric transducer. 2,405,187; Aug. 6.
Berquist, Leonard G., Niles, Mich., assignor to National-Standard Company. Forming machine. 2,405,128; Aug. 6.
Beste, Marion D.: *See*—
Reed, Raymond E., Tenenbaum, and Beste.
Bible, Walter E., Denver, Colo., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Vacuum cleaning system. 2,405,129; Aug. 6.
Bierman, George H., River Forest, Ill., assignor to American Can Company, New York, N. Y. Soldering machine. 2,405,178; Aug. 6.

Binks, Squire, Toronto, Ontario, Canada. Toy gun. 2,405,341; Aug. 6.
Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Variable ratio compressor. 2,405,282; Aug. 6.
Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Elastic fluid mechanism. 2,405,283; Aug. 6.
Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Centrifugal compressor. 2,405,284; Aug. 6.
Black, Robert, Jr., South Orange, and F. F. Romanow, Berkeley Heights, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical device. 2,405,179; Aug. 6.
Blackwelder, Ernest F., et al.: *See*—
Gordon, George C., and Blackwelder.
Blanchard, Werner J., C. S. J. MacNeil, J. F. Haines, and T. B. Martin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Controllable pitch propeller. 2,405,285; Aug. 6.
Blattner, David G., Mountain Lakes, N. J., and F. W. Clayden, Bronxville, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulator. 2,405,180; Aug. 6.
Blomberg, Knut H., New York, N. Y., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone set. 2,405,543; Aug. 6.
Bloomfield, Samuel, Wichita, assignor to C. E. Hovey, Kansas City, Mo., trustee. Screw driver. 2,405,130; Aug. 6.
Bokovoy, Samuel A., Verona, and H. Stuntz, Nutley, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Frequency determining unit. 2,405,181; Aug. 6.
Bollman, John H., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra-sonic ranging device. 2,405,182; Aug. 6.
Bonard, Claude, administrator: *See*—
Dreyfus, Henry, Bryans, and Drewitt.
Boone, Paul D.: *See*—
Turk, Amos, and Boone.
Botten, John B., Russell Township, Geauga County, Ohio. Bucket locking means. 2,405,131; Aug. 6.
Bourne, Harry K., Rugby, England, assignor to General Electric Company. Electric vapor lamp apparatus and operation. 2,405,286; Aug. 6.
Bowser, S. F., & Company, Incorporated, assignee: *See*—
Marvel, Harvey E.
Brand, Samuel, Binghamton, and J. M. Cunningham, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Record controlled accounting machine. 2,405,287; Aug. 6.
Brandt, Robert L., New York, assignor, by mesne assignments, to R. B. Colgate, Lloyd Neck, N. Y. Mixing method. 2,405,487; Aug. 6.
Brazil Babasu Corporation, assignee: *See*—
Grupe, William F.
Briner, Emil A., East Orange, N. J., assignor to Aero Engineering Corporation. Variable pitch propeller. 2,405,488; Aug. 6.
Brittain, Eric H.: *See*—
Tuerck, Karl H. W., and Brittain.
Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Railroad journal box. 2,405,132; Aug. 6.
Brock, William H. J., assignor of one-half to Automotive Products Company, Limited, Leamington Spa, England. Coupling device for pipes or tubes. 2,405,489; Aug. 6.
Brosius, Edgar E., Pittsburgh, Pa. Charging machine. 2,405,342; Aug. 6.
Brown, Glenn C., Taylor Ridge, assignor of one-half to C. Etzel, Rock Island, Ill. Amusement device for carnivals. 2,405,108; Aug. 6.
Brown, Reynolds D., Jr., Blue Bell, assignor to Philco Corporation, Philadelphia, Pa. Means for translating mechanical energy. 2,405,109; Aug. 6.
Brown, Walter J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Method and means for measuring surface roughness. 2,405,133; Aug. 6.
Brown, Walter J., Cleveland Heights, and J. E. Shomer, Lakewood, assignors to The Brush Development Company, Cleveland, Ohio. Distance measuring system. 2,405,134; Aug. 6.
Brush Development Company, The, assignee: *See*—
Brown, Walter J.
Brown, Walter J., and Shomer.
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Endoethylene halocyclopentanoindanes. 2,405,183; Aug. 6.
Bryans, Frank: *See*—
Dreyfus, Henry, Bryans, and Drewitt.
Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Car truck. 2,405,398; Aug. 6.
Budd, Edward G., Manufacturing Company, assignee: *See*—
Dean, Albert G.
Ledwinka, Joseph, and Kelly.
Lindsay, Alexander R.
Budd Wheel Company, assignee: *See*—
Eksergian, Carolus L., and Coombes.
Bugg, Kenly C., and H. L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg. Tube beading and expanding tool and method. 2,405,399; Aug. 6.
Bullard, Edwin: *See*—
Mossberg, Harold F., and Bullard.
Bullock, James, Richmond, Calif. Drill. 2,405,110; Aug. 6.
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Aromatizing with consumption of hydrogen. 2,405,184; Aug. 6.
Butt, Herbert G., Winthrop, Mass. Pipe vise. 2,405,288; Aug. 6.
Butterfield, John P., assignor to Chrysler Corporation, Highland Park, Mich. Releasable pin. 2,405,400; Aug. 6.
Butz, Lewis W., Beltsville, Md., assignor to the United States of America, as represented by the Secretary of Agriculture. Nonbenzenoid compounds. 2,405,540; Aug. 6.
Butzbach, Orville K., assignor to The Studebaker Corporation, South Bend, Ind. Transmission. 2,405,135; Aug. 6.
Cade, John W.: *See*—
Sturgess, John, Cade, and Savitz.
Calgon Inc., assignee: *See*—
Taylor, Ambrose G.
Cambell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Control system for rotative winged aircraft. 2,405,188; Aug. 6.
Carborundum Company, The, assignee: *See*—
Sharpe, Donald B., and Baumgartner.
Cardwell, Lloyd, Oak Park, Ill. Retaining wall. 2,405,289; Aug. 6.
Carey, Philip, Manufacturing Company, assignee: *See*—
Perrault, Lewis.
Carlisle, William A., Sr., assignee: *See*—
Goss, Worth C. and O. P. M.
Carlson, Vernon E., Short Hills, and T. C. Freedom, Scotch Plains, assignors to Aircraft Marine Products, Inc., Elizabeth, N. J. Electrical connection. 2,405,111; Aug. 6.
Carpenter, Charles R., Robbinsdale, Minn. Apparatus for treating fibrous materials. 2,405,401; Aug. 6.
Carpenter, Morris T.: *See*—
Bahlke, William H., and Carpenter.
Carroll, Hubert O., Painesville, Ohio. Convertible combination storm sash and screen. 2,405,112; Aug. 6.
Carter, Lionel A., Webster Groves, Mo. Self-locking bolt or nut. 2,405,402; Aug. 6.
Cawein, Madison, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television signal amplifier. 2,405,290; Aug. 6.
Champion Paper and Fibre Company, The, assignee: *See*—
Gates, Louis E.
Chemical Concentrates Corp., assignee: *See*—
Levin, David.
Chemical Construction Corporation, assignee: *See*—
Hitchon, Carl K., and Pennell.
Chenicek, Joseph A., and R. B. Thompson, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of isoparaffins. 2,405,490; Aug. 6.
Chittum, James P., and G. E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Rubber hydrochloride compositions. 2,405,343; Aug. 6.
Chronis, Steve, Corona, N. Y., assignor, by mesne assignments, to Solar Aircraft Company, San Diego, Calif. Carbon arc electrode holder. 2,405,403; Aug. 6.
Chrysler Corporation, assignee: *See*—
Butterfield, John P.
Herreshoff, Alexander G.
Slack, Frederic W., and Utz.
Cincinnati Industries Inc., assignee: *See*—
Rowe, William W.
Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,405,404; Aug. 6.
Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Ironing machine. 2,405,491; Aug. 6.
Clark, Le Roy V., New Castle, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y. Stabilized explosive. 2,405,189; Aug. 6.
Clausen, De Witt: *See*—
Yeomans, Lucien I., and Clausen.
Clayden, Francis W.: *See*—
Blattner, David G., and Clayden.
Claytor, Edward M.: *See*—
Jorgensen, Clarence H., and Claytor.
Clemons, John E., San Antonio, and J. G. Nelson, Houston, Tex. Rhumb line calculator or distance and course computer. 2,405,113; Aug. 6.
Cloutier, Leo, Fall River, Mass. Bowling ball polisher. 2,405,344; Aug. 6.
Coats, Gilbert E., Fort Dodge, Iowa. Loading machine. 2,405,114; Aug. 6.
Cole, Bernard T., Burbage, assignor to B. Toone (Nottingham) Limited, Nottingham, England. Picker mechanism and machines, especially knitting machines, incorporating such mechanism. 2,405,405; Aug. 6.
Colgate, Robert B., assignee: *See*—
Brandt, Robert L.

Combridge, George A., Los Angeles, Calif. Welding rod holder. 2,405,406; Aug. 6.
Conley, John E., Memphis, Tenn. Railway frog. 2,405,407; Aug. 6.
Conn, C. G., Ltd., assignee: *See*—
Kent, Earle L.
Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Preparation of synthetic gels. 2,405,408; Aug. 6.
Continental Can Company, Inc., assignee: *See*—
Fukal, Alfred F.
Coombes, Joseph H.: *See*—
Eksergian, Carolus L., and Coombes.
Cooper, Alfred, and D. E. Partington, assignors to Expanded Rubber Company Limited, Croydon, England. Manufacture of expanded thermoplastic resinous compositions. 2,405,345; Aug. 6.
Corbett, John P., Van Nuys, Calif. Baseball base. 2,405,492; Aug. 6.
Corbett, Lawrence B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Printing screen. 2,405,291; Aug. 6.
Corning Glass Works, assignee: *See*—
Smith, Gail P.
Cowdry, Cecil L.: *See*—
Halford, Frank B., and Cowdrey.
Creed, Frederick G., Croydon, assignor to Floating Stations Limited, London, England. Floating structure. 2,405,115; Aug. 6.
Cross, Carroll N., Middleboro, Mass. Picture mount. 2,405,409; Aug. 6.
Crown Fastener Corporation, assignee: *See*—
Willis, Charles C.
Cullen, Abbie B., Oxford, Miss. Building construction. 2,405,116; Aug. 6.
Cunningham, James M.: *See*—
Brand, Samuel, and Cunningham.
Curlee, Harvey P., near Charlotte, N. C. Nut blanching machine. 2,405,292; Aug. 6.
Dahlman, Verner, assignor to American Air Filter Company, Inc., Louisville, Ky. Open-faced air filter frame. 2,405,293; Aug. 6.
Darling, Lewis A., Elkins Park, Pa., assignor of eighty per cent to Peerless Turbine Corporation, Wilmington, Del. Fluid turbine. 2,405,190; Aug. 6.
Davenport, Arthur, Macclesfield, England. Feeding mechanism for ring doubling and like frames. 2,405,410; Aug. 6.
Davis, Edward P., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Curing abrasive binders and abrasive articles produced thereby. 2,405,191; Aug. 6.
Davis, Gustoff W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,405,192; Aug. 6.
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Bolster construction for rail car underframes. 2,405,117; Aug. 6.
Dean, John, Harrisonburg, Va. Radio range orientator. 2,405,493; Aug. 6.
Dean, Walter B., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Axle drive, especially for railway vehicles. 2,405,193; Aug. 6.
Deere & Company, assignee: *See*—
Silver, Walter H.
Dehn, Joseph W., Great Neck, and M. C. Goddard, Garden City, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,405,194; Aug. 6.
Delano, William R. P., Syosset, N. Y., and W. E. Meissner, Newark, N. J., assignors to Gallowhur Chemical Corporation, New York, N. Y. Solar distillation apparatus. 2,405,118; Aug. 6.
Delucchi, Anthony W., assignor of one-half to H. A. Stagnaro, Stockton, Calif. Drive-in serving system. 2,405,294; Aug. 6.
Dictograph Products Company, Inc., assignee: *See*—
Koch, Henry.
Disney, Charles P., Toronto, Ontario, Canada. Constructing piers. 2,405,295; Aug. 6.
Distillers Company Limited, The, assignee: *See*—
Tuerck, Karl H. W., and Brittain.
Tuerck, Karl H. W., and Lichtenstein.
Dittrich, Francis J., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Double deck vehicle. 2,405,136; Aug. 6.
Dixon, Joseph, Crucible Company, assignee: *See*—
Nichols, Charles R., Jr.
Dodge Manufacturing Corporation, assignee: *See*—
Firth, David.
Doehler Die Casting Company, assignee: *See*—
Harrison, George.
Dole Refrigerating Company, assignee: *See*—
Kleist, Herman W.
Dominion Merchants Company, assignee: *See*—
Barnard, Oral E.
Dorst, Stanley O.: *See*—
Robinson, Preston, and Dorst.
Drake, Alden M., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Work holder for gauge lapping machines. 2,405,346; Aug. 6.
Drewitt, James G. N.: *See*—
Dreyfus, Henry, Bryans, and Drewitt.
Dreyfus, Henry, deceased; C. Bonard, administrator, F. Bryant, and J. G. N. Drewitt, London, England. Conversion of di-b-alkenyl ethers to alkadienes and alkali metal alkenylates. 2,405,347; Aug. 6.
Du Bose, George P., assignee, et al.: *See*—
Gordon, George C., and Blackwelder.
Duke, Paul W., U. S. Navy. Film magazine. 2,405,195; Aug. 6.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Batchelder, George W.
Sease, Virgil B., and Woodward.
Dupuy, Charles F. J., Mahwah, N. J., assignor to O-Cedar Corp'n, Chicago, Ill. Air treating apparatus. 2,405,494; Aug. 6.
Duriron Company, Inc., The, assignee: *See*—
Jack, Delbert E., and Augsburger.
Dybvig, Edwin S., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,405,411; Aug. 6.
Eby, Hugh H., Philadelphia, Pa., assignor to Hugh H. Eby, Inc. Contact-making wire clamp or connector. 2,405,412; Aug. 6.
Eby, Hugh H., Inc., assignee: *See*—
Eby, Hugh H.
Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Aircraft supercharger arrangement. 2,405,413; Aug. 6.
Eisemann Corporation, assignee: *See*—
Tabb, Warner T.
Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Recoilless gun mechanism. 2,405,414; Aug. 6.
Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket projectile. 2,405,415; Aug. 6.
Eksergian, Carolus L., and J. H. Coombes, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Brake arrangement. 2,405,119; Aug. 6.
Elder, Charles J., Muncie, Ind., assignor to The Moore Company. Bedspring. 2,405,296; Aug. 6.
Elliot, Donald C., West Springfield, and O. H. Paul, Chicopee, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Oil burner. 2,405,196; Aug. 6.
Enfield Rolling Mills Limited, assignee: *See*—
Sykes, John.
Engelheart, Alexis C., Houston, Tex. Automobile sunshade. 2,405,348; Aug. 6.
Eterpen S. A.: *See*—
Van Spankeren, Gerardo H.
"Eterpen" Sociedad Anonima Financiera, assignee: *See*—
Van Spankeren, Gerardo H.
Etzel, Clarence, assignee: *See*—
Brown, Glenn C.
Evans, Douglas N., Gary, Ind. Bearing seal cartridge. 2,405,120; Aug. 6.
Ewing Development Company, assignee: *See*—
Ewing, Walkley B.
Ewing, Walkley B., Frankfort, assignor to Ewing Development Company, Bay City, Mich. Machine for making sun screens. 2,405,197; Aug. 6.
Ewing, Walkley B., Frankfort, assignor to Ewing Development Company, Bay City, Mich. Means for controlling advancement of stock. 2,405,198; Aug. 6.
Expanded Rubber Company Limited, assignee: *See*—
Cooper, Alfred, and Partington.
Farnsworth Television and Radio Corporation, assignee: *See*—
Cawein, Madison.
Halstead, William S., and Lord.
Faust, Clifford E.: *See*—
Kehrer, Ernest, and Faust.
Faust, William S., and H. J. Lavo, Williamsport, Pa., assignors to The Aviation Corporation, New York, N. Y. Fluid pressure gauge. 2,405,199; Aug. 6.
Federal Reserve Bank of Philadelphia, assignee: *See*—
Birmann, Rudolph.
Federal Telephone and Radio Corporation, assignee: *See*—
Bokovoy, Samuel A., and Stuntz.
Fehr, Paul, Zug, Switzerland, assignor to Landis & Gyr A. G. Counting device for overvoltage. 2,405,121; Aug. 6.
Feldman, Max, Miami Beach, Fla. Safety razor. 2,405,200; Aug. 6.
Fellows Gear Shaper Company, The, assignee: *See*—
Miller, Edward W.
Fibro-Mold Specialties, Inc., assignee: *See*—
Skolnik, Max.
Firth, David, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Shaft bearing. 2,405,122; Aug. 6.
Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Telegraphic printing apparatus. 2,405,297; Aug. 6.
Fleischer, John, Van Dyke, Mich. Twist drill. 2,405,298; Aug. 6.

Floating Stations Limited, assignee: *See*—
Creed, Frederick G.
Foulkes, Thomas E., Ilford, England. Storage arrangement. 2,405,416; Aug. 6.
Fouré, Jacques: *See*—
Gadoux, Eugène M., and Fouré.
Franck, George E., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Forming closed metal capsules. 2,405,201; Aug. 6.
Franklin, Robert B., Dallas, Tex., assignor to Playground Equipment Company. Amusement apparatus. 2,405,495; Aug. 6.
Freedom, Thomas C.: *See*—
Carlson, Vernon E., and Freedom.
Freund, Walter, Tel Aviv, Palestine. Accumulator. 2,405,349; Aug. 6.
Fruth, Hal F., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Apparatus for grinding the surfaces of small objects. 2,405,417; Aug. 6.
Fry, John J., Bremerton, Wash. Reglet. 2,405,202; Aug. 6.
Fuel Charger Corporation, assignee: See—
Parsons, Ben G.
Fukal, Alfred F., Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Globe. 2,405,418; Aug. 6.
Fyler, George W., Stratford, Conn., assignor to General Electric Company. Antenna system. 2,405,123; Aug. 6.
G-M Laboratories Inc., assignee: *See*—
McMaster, Archie J., and Jacobson.
Gadoux, Eugène M., Cormeilles-en-Parisis, and J. Fouré, Paris France. Two stroke engine. 2,405,350; Aug. 6.
Gagas, Stanley, Perkasie, Pa. Sinker head. 2,405,351; Aug. 6.
Gaiser, Martin W., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Adjustment system. 2,405,419; Aug. 6.
Gale, Shirley I., Plainfield, J. M. Moran, South Plainfield, and W. B. Heins, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Method and apparatus for analyzing iron sludge. 2,405,137; Aug. 6.
Gallowhur Chemical Corporation, assignee: *See*—
Delano, William R. P., and Meissner.
Galvin Manufacturing Corporation, assignee: *See*—
Fruth, Hal F.
Holthouse, Harry B.
Garnett, A. J., Limited, assignee: *See*—
Langford, Ernest E., and Garnett.
Garnett, Arthur T.: *See*—
Langford, Ernest E., and Garnett.
Gates, Louis E., assignor to The Champion Paper and Fibre Company, Canton, N. C. Apparatus for breaking foam. 2,405,138; Aug. 6.
General Controls Co., assignee: *See*—
Ray, William R.
General Electric Company, assignee: *See*—
Atchison, Leonard W.
Bazley, Carl E.
Bedford, Burnice D.
Bourne, Harry K.
Edwards, Martin A.
Fyler, George W.
Jewell, Richard G.
Leeds, Laurance M.
Seaver, John D.
Sinks, Allen T.
Valentine, Frank E.
Wassell, Frank A.
Westendorp, Willem F.
General Motors Corporation, assignee: *See*—
Austin, Dwight E.
Blanchard, Werner J., MacNeil, Haines, Martin.
Brittain, Richard J., Jr.
Clark, Kendall.
Dybvig, Edwin S.
Gaiser, Martin W.
Jorgensen, Clarence H., and Claytor.
Mann, Cecil A.
Martin, Edward J.
Smith, Glen A.
Storer, John E., Jr.
Van Degrift, Thomas C.
Werner, Calvin J.
General Radio Company, assignee: *See*—
Tuttle, William N.
Gentil, Raymond, assignee: *See*—
Voreaux, Paul J.
Geoghegan, Eamonn D. A., assignor to Tobe Deutschmann Corporation, Canton, Mass. Support for capacitors. 2,405,139; Aug. 6.
Gerner, Theodore C., Oklahoma City, Okla. Method and apparatus for repairing propeller shaft housings. 2,405,541; Aug. 6.
Giger, Walter, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Dual power thermal locomotive. 2,405,352; Aug. 6.
Gilbert & Barker Manufacturing Company, assignee: *See*—
Elliot, Donald C., and Paul.
Speare, Leolyn F.
Gilliland, Prentice, Los Angeles, Calif. Garment holder. 2,405,124; Aug. 6.
Gingras, Edward F., Buffalo, N. Y. Driving belt. 2,405,496; Aug. 6.
Glaze, Leavitt B., assignor to P. Henry, Los Angeles, Calif. Clamping device. 2,405,251; Aug. 6.
Gleason Works, assignee: *See*—
Wildhaber, Ernest.
Goddard, Myron C.: *See*—
Dehn, Joseph W., and Goddard.
Godwin, Gordon, Montreal, Quebec, assignor to The Ontario Paper Company Limited, Thorold, Ontario, Canada. Trailer. 2,405,299; Aug. 6.
Goldsmith, Alfred N., assignor to Radio Corporation of America, New York, N. Y. Secret communication system. 2,405,252; Aug. 6.
Goldstein, Maxwell K., Washington, D. C. Phase type direct indicating direction finder. 2,405,203; Aug. 6.
Gollin, Geoffrey J.: *See*—
Lubbock, Isaac, Gollin, Lindsay, and Poole.
Goodman, Adolph, Brooklyn, N. Y. Over and under scale. 2,405,497; Aug. 6.
Goodrich, Frank W., Newark, N. J., assignor to American Can Company, New York, N. Y. Cutting device. 2,405,204; Aug. 6.
Gordon, George C., and E. F. Blackwelder, Rio Vista, Calif., assignors of twenty-one and one-fourth per cent to C. A. Loucks, thirty-six and one-fourth per cent to L. K. Schmidt, twenty-one and one-fourth per cent to A. M. Jongeneel, and twenty-one and one-fourth per cent to G. P. Du Bose. Beet harvester. 2,405,205; Aug. 6.
Goss, Oliver P. M.: *See*—
Goss, Worth C. and O. P. M.
Goss, Worth C. and O. P. M., assignors to W. A. Carlisle, Sr., Seattle, Wash. Activating primary carbon. 2,405,206; Aug. 6.
Green, Samuel G., Gray, Ga. Gun feed mechanism. 2,405,207; Aug. 6.
Greenburg, Richard B., Melrose Park, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Recovery of xylenes. 2,405,300; Aug. 6.
Green-ee, Mumzelle La M., San Antonio, Tex. Cigarette light concealer. 2,405,506; Aug. 6.
Gregg, Jon, Flemington, N. J. Shoe sole. 2,405,498; Aug. 6.
Grey, David S., assignor to Polaroid Corporation, Cambridge, Mass. Optical system. 2,405,301; Aug. 6.
Griffith, Dinsmore L., and L. G. Hendrickson, Flin Flon, Manitoba, assignors to Hudson Bay Mining and Smelting Company, Limited, Winnipeg, Manitoba, Canada. Composition for purifying electrolytes. 2,405,302; Aug. 6.
Grimm, Walter, Zurich-Oerlikon, assignor to L. H. Kapp & Co., Zurich, Switzerland. Liquid level switch. 2,405,140; Aug. 6.
Grupe, William F., Lyndhurst, N. J., assignor to Brazil Babassu Corporation, New York, N. Y. Apparatus for cracking nuts. 2,405,303; Aug. 6.
Guanella, Gustav, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y. Secret signaling. 2,405,500; Aug. 6.
Guyer, Reynolds, and R. J. Hennessey, assignors to Waldorf Paper Products Company, St. Paul, Minn. Container for frozen foods. 2,405,499; Aug. 6.
Guyon, Walter W., Rochester, N. Y. Sheet attaching mechanism. 2,405,420; Aug. 6.
Guyon, Walter W., Rochester, N. Y. Attaching a plurality of sheets. 2,405,421; Aug. 6.
Hagerstown Leather Company, assignee: *See*—
Thomas, Harry I.
Haines, John F.: *See*—
Blanchard, Werner J., MacNeil, Haines, and Martin.
Halford, Frank B., Edgware, and C. L. Cowdrey, Hitchin, assignors to D. Napier & Son Limited, London, England. Cooling of engines in aircraft. 2,405,422; Aug. 6.
Halstead, William S., Huntington, and B. C. Lord, Valley Stream, N. Y., assignors, by mesne assignments, to Farnsworth Television & Radio Corporation, Fort Wayne, Ind. Signaling system. 2,405,501; Aug. 6.
Hanhart, Walter, Riehen, assignor to Society of Chemical Industry of Basle, Basel, Switzerland. Polyazo dyestuffs of the stilbene series and making same. 2,405,353; Aug. 6.
Hansen, Jane W.: *See*—
Hansen, Verner J. and J. W.
Hansen, Verner J. and J. W., Arlington, Va. Curtain saver. 2,405,354; Aug. 6.
Harasta, Clarence J., assignee, et al.: *See*—
Lynn, Robert M.
Harasta, Mildred A., assignee, et al.: *See*—
Lynn, Robert M.
Harris, Frederic R., New York, N. Y. Hydraulic shock absorber. 2,405,502; Aug. 6.
Harris, Thomas A., Hampton, Va. Control-force reducing device. 2,405,208; Aug. 6.
Harrison, George, Berwyn, Ill., assignor to Doehler Die Casting Company New York, N. Y. Rod-casting machine and method. 2,405,355; Aug. 6.
Harry, William R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signal device. 2,405,209; Aug. 6.
Hart, Harry L.: *See*—
Bugg, Kenly C., and Hart.
Hartley, Ralph V. L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,405,211; Aug. 6.

Havel, Arthur, Ainsworth, Iowa. Lagging and making the same. 2,405,304; Aug. 6.

Hayes, William F., Detroit, Mich. Composition panel board. 2,405,423; Aug. 6.

Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Hydroxylating pot type burner. 2,405,212; Aug. 6.

Heinz, Winfield B.: *See*—
Gale, Shirley I., Moran, and Heinz.

Hendrickson, Luther G.: *See*—
Griffith, Dinsmore L., and Hendrickson.

Hennessey, Russell J.: *See*—
Guyer, Reynolds, and Hennessey.

Hennessy, John F., Denver, Colo., and J. I. Thulander, Chicago, assignors to Geo. D. Roper Corporation, Rockford, Ill. Oven door seal. 2,405,305; Aug. 6.

Henry, Paul, assignee: *See*—
Glaze, Leavitt B.

Hercules Powder Company, assignee: *See*—
Lefren, Edward K.

Heritage, Clark C., assignor to Wood Conversion Company, Cloquet, Minn. Process and apparatus for production of fiber from vegetable matter. 2,405,213; Aug. 6.

Herreshoff, Alexander G., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Fastening device. 2,405,424; Aug. 6.

Hibbard, Robert L., Jr., et al., executors: *See*—
Hibbard, Robert L.

Hibbard, Robert L., deceased, Bellevue, assignor of one-half to W. K. Stamets, Mars, Pa.; S. C. and R. L. Hibbard, Jr., and H. M. Junkin, executors. Conveyer table. 2,405,141; Aug. 6.

Hibbard, Stewart C., et al., executors: *See*—
Hibbard, Robert L.

Hickey, James, Portland, Oreg. Buttonhole attachment for sewing machines. 2,405,253; Aug. 6.

Higgins, Waldo W., Whitefish Bay, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrical insulator. 2,405,425; Aug. 6.

Hill, Dudley L., Peekskill, N. Y. Cultivating implement. 2,405,503; Aug. 6.

Hillier, James, Cranbury, and R. F. Baker, Princeton, N. J., assignors to Radio Corporation of America. Electronic microanalyzer monitoring. 2,405,306; Aug. 6.

Hinde & Dauch Company, The, assignee: *See*—
Larkin, Daniel A.

Hitchon, Carl K., Stamford, Conn., and J. D. Pennell, Jr., assignors to Chemical Construction Corporation, New York, N. Y. Production of alumina. 2,405,426; Aug. 6.

Holbrook, Bernard D., Madison, and M. A. Logan, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call distributing system. 2,405,214; Aug. 6.

Holt, Ray G., Euclid, assignor to Pesco Products Co., Cleveland, Ohio. Pressure switch. 2,405,142; Aug. 6.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heating system. 2,405,143; Aug. 6.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heating system. 2,405,144; Aug. 6.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heating system. 2,405,145; Aug. 6.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Heater. 2,405,427; Aug. 6.

Hoover Company, The, assignee: *See*—
Beach, Justice H.
Bible, Walter E.
Sutton, Otis B.
Troxler, Charles G.

Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Mold core. 2,405,254; Aug. 6.

Horton, Karl R., Portland, Oreg. Venetian blind. 2,405,255; Aug. 6.

Hossfeld, Ralph L.: *See*—
Salvesen, Jorgen R., Hossfeld, and Lovin.

Hovey, C. Earl, assignee, trustee: *See*—
Bloomfield, Samuel.

Hoyt, Richard A.: *See*—
Levi, Ormonde S., and Hoyt.

Huber, Walter, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Turbomachine. 2,405,146; Aug. 6.

Hudson Bay Mining and Smelting Company, Limited, assignee: *See*—
Griffith, Dinsmore L., and Hendrickson.

Hughes, Everett C.: *See*—
Burk, Robert E., and Hughes.

Hulse, George E.: *See*—
Chittum, James P., and Hulse.

Hutter, William H., Chicago, Ill. Phonograph needle. 2,405,307; Aug. 6.

Hygrade Sylvania Corporation, assignee: *See*—
Mueller, William P., and Kiser.

I. T. E. Circuit Breaker Company: *See*—
Scott, William M., Jr.

Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George E.

Infilco Incorporated, assignee: *See*—
McBride, George A.

Inglis, Alfred H., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signal device. 2,405,210; Aug. 6.

International Business Machines Corporation, assignee: *See*—
Brand, Samuel, and Cunningham.
Corbett, Lawrence B.
Fitch, Clyde J.

International Minerals & Chemical Corporation, assignee: *See*—
Manning, Paul D. V.

International Standard Electric Corporation, assignee: *See*—
Labin, Emile.

Jack, Delbert E., and D. Augsburger, assignors to The Duriron Company, Inc., Dayton, Ohio. Heat exchanger. 2,405,256; Aug. 6.

Jack, Joe F., Arcadia, Calif. Dry firing cartridge. 2,405,308; Aug. 6.

Jacobson, James H., Chicago, Ill. Load transference unit. 2,405,428; Aug. 6.

Jacobson, Larry: *See*—
McMaster, Archie J., and Jacobson.

Jacobson, Walter V., Apponaug, assignor to Universal Winding Company, Cranston, R. I. Winding machine. 2,405,215; Aug. 6.

Jaeger Machine Company, assignee: *See*—
Mandt, Obert G.

Jahn, Leroy B., Montevideo, Minn. Spring construction. 2,405,356; Aug. 6.

Jarret, George T., assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Friction clutch. 2,405,357; Aug. 6.

Jewell, Richard G., Swampscott, Mass., assignor to General Electric Company. Position indicator. 2,405,429; Aug. 6.

Johnson, William D., Chicago, Ill. Metal wagon body. 2,405,358; Aug. 6.

Jongeneel, Albert M., assignee, et al: *See*—
Gordon, George C., and Blackwelder.

Jorgensen, Clarence H., and E. M. Claytor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. System of control for supercharged engines. 2,405,309; Aug. 6.

Josh, George, Crown Point, Ind., assignor to Armour and Company, Chicago, Ill. Packaging surgical string material. 2,405,216; Aug. 6.

Junkin, Hays M., et al., executors: *See*—
Hibbard, Robert L.

Juvinall, James W., La Grange Park, and G. Stuhlfauth, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Glassworking apparatus. 2,405,504; Aug. 6.

Kapp, L. H., & Co., assignee: *See*—
Grimm, Walter.

Kauffman, Clayton O., Fullerton, Calif. House type dishwasher. 2,405,147; Aug. 6.

Keahey, Frank S., assignor to Kirsch Company, Sturgis, Mich. Coupling. 2,405,148; Aug. 6.

Kehrer, Ernest, Belle Vernon, and C. E. Faust, Monessen, assignors to Pittsburgh Steel Company, Pittsburgh, Pa. Fence machine. 2,405,257; Aug. 6.

Kellogg, M. W., Company, The, assignee: *See*—
Hopkins, Robert K.

Kelly, Daniel P. J., assignee: *See*—
Stubbins, William.

Kelly, John W.: *See*—
Ledwinka, Joseph, and Kelly.

Kempthorn, David C., Akron, assignor to The Sun Rubber Company, Barberton, Ohio. Hollow rubber article and apparatus for producing same. 2,405,149; Aug. 6.

Kent, Earle L., assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for analyzing rotational unbalances. 2,405,430; Aug. 6.

Kern, Emil, Long Island City, N. Y., assignor to Acco Products, Inc. Perforating device. 2,405,150; Aug. 6.

Kienle, Roy H., and C. A. Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Arylamine salts of anthraquinonesulphonic acids as printing aids. 2,405,151; Aug. 6.

Kiernan, Adele, Racine, Wis. Hair curling device. 2,405,431; Aug. 6.

Kilchenmann, Walter, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Packing for cylindrical parts. 2,405,152; Aug. 6.

Kirsch Company, assignee: *See*—
Keahey, Frank S.
Kirsch, Guy W.

Kirsch, Guy W., Sturgis, assignor to Kirsch Company, St. Joseph, Mich. Venetian blind adjusting means. 2,405,153; Aug. 6.

Kiser, Nathiniel L.: *See*—
Mueller, William P., and Kiser.

Kleidon, Albert J., New Brighton, Minn. Ladder hoist. 2,405,505; Aug. 6.

Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Cooling apparatus. 2,405,432; Aug. 6.

Knox, Samuel L. G., New York, N. Y. Elastic fluid engine. 2,405,359; Aug. 6.

Koch, Henry, Jamaica, assignor to Dictograph Products Company, Inc., New York, N. Y. Bone conduction audiphone. 2,405,433; Aug. 6.

Korte, Edward H., Brooklyn, N. Y. Mechanical movement. 2,405,360; Aug. 6.

Krainer, Edgar H., Milwaukee, Wis., assignor to The Oilgear Company. Broaching machine. 2,405,434; Aug. 6.

Kylin, Henrik O.: *See*—
Kylin, Oskar and H. O., and Valentino.

Kylin, Oskar and H. O., and M. L. Valentino, Cleveland Heights, assignors to Bardons and Oliver, Inc., Cleveland, Ohio. Machine tool. 2,405,435; Aug. 6.

Labin, Emile, assignor to International Standard Electric Corporation, New York, N. Y. Impulse oscillator. 2,405,217; Aug. 6.

Lake, George R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Desulpharizing hydrocarbons. 2,405,258; Aug. 6.

Lamb, Clyde K., assignor to Airways Lighting Corporation, Cleveland, Ohio. Work carriage. 2,405,259; Aug. 6.

Lambach, Fritz, Tenafly, and W. Siegel, Union City, assignors to Robert Reiner, Inc., Weehawken, N. J. Electrically operated stop motion for warping or beaming plants. 2,405,218; Aug. 6.

Lambert Brake Corporation, assignee: *See*—
Lambert, Homer T.

Lambert, Homer T., assignor to Lambert Brake Corporation, St. Joseph, Mich. Disk brake. 2,405,219; Aug. 6.

Landis & Gyr A. G., assignee: *See*—
Fehr, Paul.

Langford, Ernest E., and A. T. Garnett, assignors to A. J. Garnett Limited, London, England. Portable holdall, case, and bag. 2,405,261; Aug. 6.

Larkin, Daniel A., Sandusky, Ohio, assignor to The Hinde & Dauch Company. Basket handle. 2,405,310; Aug. 6.

Laughlin, Kenneth C., Wilmington, Del., assignor to Standard Oil Development Company. Catalytic dehydrogenation. 2,405,436; Aug. 6.

Lavo, Harry J.: *See*—
Faust, William S., and Lavo.

Ledwinka, Joseph, Philadelphia, and J. W. Kelly, Elkins Park, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Combined body and chassis structure. 2,405,260; Aug. 6.

Leeds, Laurance M., Rotterdam Junction, N. Y., assignor to General Electric Company. Impedance matching transformer. 2,405,437; Aug. 6.

Lees-Bradner Company, The, assignee: *See*—
Schurr, Charles H.

Lefren, Edward K., Port Ewen, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Charger for explosives. 2,405,507; Aug. 6.

Lehman, Samuel K., Brooklyn, N. Y., and M. L. Taylor, Ridgewood, assignors to Bendix Aviation Corporation, Teterboro, N. J. Deicer unloading valve. 2,405,362; Aug. 6.

Levey, Fred'k H., Co., Inc., assignee: *See*—
Wilson, Mitchell.

Levi, Ormonde S., Toledo, Ohio, and R. A. Hoyt, Auburn, Maine, assignors, by mesne assignments, to Verd-A-Ray Processing Company, Toledo, Ohio. Electric light bulb. 2,405,261; Aug. 6.

Levin, David, assignor to Chemical Concentrates Corp., Philadelphia, Pa. Fire extinguishing composition and making same. 2,405,438; Aug. 6.

Lichtenstein, Hans J.: *See*—
Tuerck, Karl H. W., and Lichtenstein.

Lindemuth, Lewis B., Port Washington, assignor to Steel Ingot Production, Inc., New York, N. Y. Checker for open hearth regenerative furnaces. 2,405,868; Aug. 6.

Lindsay, Alexander R., Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Splash guard for vehicles, especially trucks. 2,405,262; Aug. 6.

Lindsay, Allan: *See*—
Lubbock, Isaac, Gollin, Lindsay, and Poole.

Lindsay, Allen R., Cleveland Heights, Ohio. Electrolytic stencil. 2,405,508; Aug. 6.

Lipe-Rollway Corporation, assignee: *See*—
Jarret, George T.

Lithomat Corporation, assignee: *See*—
Mullen, William G.

Livadas, Louis, Springfield, Ohio. Device for slicing butter or the like. 2,405,311; Aug. 6.

Logan, Mason A.: *See*—
Holbrook, Bernard D., and Logan.

Logan, Robert C., Dos Palos, Calif. Dairyman's glove. 2,405,154; Aug. 6.

Lord, Benjamin C.: *See*—
Halstead, William S., and Lord.

Loucks, Claude A., assignee, et al.: *See*—
Gordon, George C., and Blackwelder.

Lovin, Robert J.: *See*—
Salvesen, Jorgen R., Hossfeld, and Lovin.

Lubbock, Isaac, G. J. Gollin, A. Lindsay, and H. J. Poole; said Lubbock, Gollin, and Lindsay assignors to The Asiatic Petroleum Company, Limited, London, England. Explosive operated valve. 2,405,439; Aug. 6.

Lynn, Julia M., assignee, et al.: *See*—
Lynn, Robert M.

Lynn, Robert M., Pasadena, Calif., assignor of twenty-five per cent to C. J. Harasta, twenty-five per cent to J. M. Lynn, and twenty-five per cent to M. A. Harasta. Bomb sight. 2,405,263; Aug. 6.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,405,389; Aug. 6.

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,405,390; Aug. 6.

Mackay Radio and Telegraph Company, assignee: *See*—
Alford, Andrew.

MacLaury, Waldo M., Cold Spring Harbor, N. Y. Handtruck. 2,405,155; Aug. 6.

MacNeil, Charles S. J.: *See*—
Blanchard, Werner J., MacNeil, Haines, and Martin.

Mandt, Obert G., Upper Arlington, assignor to The Jaeger Machine Company, Columbus, Ohio. Loading machine. 2,405,312; Aug. 6.

Manley, H. Glen, assignee: *See*—
Riess, August H.

Mann, Cecil A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for applying molten metal on strip stock. 2,405,220; Aug. 6.

Mann, Cecil A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for impregnating strip stock. 2,405,221; Aug. 6.

Mann, Cecil A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for making composite strip stock. 2,405,222; Aug. 6.

Manning, Paul D. V., Glencoe, Ill., assignor to International Minerals & Chemical Corporation. Hydrolysate-neutralization process. 2,405,223; Aug. 6.

Marathon Corporation, assignee: *See*—
Salvesen, Jorgen R., Hossfeld, and Lovin.

Margolin, Meyer, Elgin, Ill. Novel shoe construction. 2,405,224; Aug. 6.

Marinsky, Davis, New York, assignor of one-half to L. H. Morin, Bronx, N. Y. Slider for separable fasteners. 2,405,509; Aug. 6.

Markley, Howard R., Oklahoma City, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion process and apparatus. 2,405,364; Aug. 6.

Marsh, Nat H., Baytown, Tex., assignor to Standard Oil Development Company. Isomerization of olefins. 2,405,440; Aug. 6.

Marsh Wall Products, Inc., assignee: *See*—
Robinson, Joseph, Jr.

Martin, Edward J., Pleasant Ridge, assignor to General Motors Corporation, Detroit, Mich. Gun sighting device. 2,405,441; Aug. 6.

Martin, Glenn L., Company, The, assignee: *See*—
Ruebensaal, Clayton F.

Martin, Paul J., Detroit, Mich. Toy bomber airplane. 2,405,313; Aug. 6.

Martin, Thomas B.: *See*—
Blanchard, Werner J., MacNeil, Haines, and Martin.

Marvel, Harvey E., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Control mechanism for dispensing apparatus. 2,405,264; Aug. 6.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signal system. 2,405,225; Aug. 6.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Low frequency projector or hydrophone. 2,405,226; Aug. 6.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Geometrical instrument. 2,405,227; Aug. 6.

Masters, Robert W., Erlton, N. J., assignor to Radio Corporation of America. Transmission coupling circuit. 2,405,314; Aug. 6.

Maye, Robert D., Flint, Mich. Auxiliary gasoline container. 2,405,442; Aug. 6.

Mayrath, Robert L., Dodge City, Kans. Automatic altitude control device. 2,405,228; Aug. 6.

Maytag, Daniel C., Laurel, Iowa. Electric welding apparatus. 2,405,510; Aug. 6.

McAlpine, Charles H., Hamburg, Pa. Blood pressure testing apparatus. 2,405,265; Aug. 6.

McBride, George A., Barrington, assignor to Infilco Incorporated, Chicago, Ill. Purification of sugar juice. 2,405,315; Aug. 6.

McBride, John W., Burbank, Calif. Stringed musical instrument. 2,405,316; Aug. 6.

McCollum, Henry J. De N., deceased, Chicago, Ill.; T. McCollum, executrix. Heater. 2,405,317; Aug. 6.

McCollum, Thelma, executrix: *See*—
McCollum, Henry J. De N.

McFall, Theodore F., El Cerrito, Calif. Illuminated sign. 2,405,266; Aug. 6.

McFall, Thurlow E., Sparta, Mich. Piston ring spacer. 2,405,318; Aug. 6.

McIntyre, Sidney S., Sedro-Woolley, Wash. Hoist. 2,405,156; Aug. 6.

McKee, Stanley H., assignor to Youngstown Welding & Engineering Co., Youngstown, Ohio. Pickling apparatus. 2,405,157; Aug. 6.

McMaster, Archie J., Deerfield, and L. Jacobson, assignors to G-M Laboratories Inc., Chicago, Ill. Relay. 2,405,319; Aug. 6.

Mees, Frank S., Swampscott, Mass. Platform sole. 2,405,443; Aug. 6.

Meissner, William E.: *See*—
Delano, William R. P., and Meissner.

Mensing, Carl E., Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Multiple contact counter-current extractor. 2,405,158; Aug. 8.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Method and machine for finishing the teeth of gear shaving cutters and the like. 2,405,159; Aug. 6.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Davis, Edward P.

Mistell, René, New York, N. Y. Notice impelling device. 2,405,320; Aug. 6.

Moen, Edwin, New London, Conn. Self-addressing envelope. 2,405,511; Aug. 6.

Moore, Bart, Jr., assignee: *See*—
Turner, William L.

Moore Business Forms, Inc., assignee: *See*—
Seeley, Harry E.

Moore Company, The, assignee: *See*—
Elder, Charles J.

Moran, James M.: *See*—
Gale, Shirley I., Moran, and Heinz.

Moreau, Jorge E.: *See*—
Moreau, Santiago and M. H. and J. E.

Moreau, Marcelo H.: *See*—
Moreau, Santiago, and M. H. and J. E.

Moreau, Santiago, M. H., and J. E., Buenos Aires, Argentina. Radiographic filter. 2,405,444; Aug. 6.

Morin, Louis H., assignee: *See*—
Marinsky, Davis.

Morse, John F., Hudson, Ohio. Photographic developing tank. 2,405,160; Aug. 6.

Morway, Arnold J.: *See*—
Zimmer, John C., and Morway.

Mossberg, Harold F., and E. Bullard, assignors to O. F. Mossberg & Sons, Inc., New Haven, Conn. Firearm rear sight. 2,405,512; Aug. 6.

Mossberg, O. F., & Sons, Inc., assignee: *See*—
Mossberg, Harold F., and Bullard.

Mueller, William P., and N. L. Kiser, assignors to Hygrade Sylvania Corporation, Emporium, Pa. Electrical oscillatory system and apparatus. 2,405,229; Aug. 6.

Mullen, William G., Winchester, assignor to Lithomat Corporation, Boston, Mass. Photogravure printing plate. 2,405,513; Aug. 6.

Myers, Arthur B., Butte Falls, Oreg. Power chain saw frame and jointing block therefor. 2,405,365; Aug. 6.

Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,405,230; Aug. 6.

Myhren, Arne J., and E. W. Nelson, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of zinc borate. 2,405,366; Aug. 6.

Napier, D., & Son Limited, assignee: *See*—
Halford, Frank B., and Cowdrey.

National-Standard Company, assignee: *See*—
Berquist, Leonard G.

Negovan, Albert, Chicago, Ill., E. R. Stratton, and W. O. Roggie, assignors to Baker-Roos, Inc., Indianapolis, Ind. Shore. 2,405,321; Aug. 6.

Neild, William G., Warren Point, assignor to Bendix Aviation Corporation, Teterboro, N. J. Carbon pile voltage regulator. 2,405,514; Aug. 6.

Nelson, Earl W.: *See*—
Myhren, Arne J., and Nelson.

Nelson, John G.: *See*—
Clemons, John E., and Nelson.

New Castle Products, assignee: *See*—
Shearer, William A., Shephard, and Watkins.

Newhouse, Russell C., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Aircraft blind landing system. 2,405,231; Aug. 6.

New Jersey Zinc Company, The, assignee: *See*—
Myhren, Arne J., and Nelson.
Peirce, Willis M.

Neyzi, Ahmet H., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Amplifier coupling device. 2,405,515; Aug. 6.

Nichols, Charles R., Jr., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil machine. 2,405,367; Aug. 6.

Nicodemus, Clarence, Chauvin, Alberta, Canada. Tractor drawn freight hauling car. 2,405,161; Aug. 6.

Niles-Bement-Pond Company, assignee: *See*—
Drake, Alden M.

Nisbet, Thomas D., Rocky River, Ohio. Fluid pump. 2,405,322; Aug. 6.

Nixon, Jeddy D., New Braunfels, Tex. System and apparatus for flowing wells. 2,405,323; Aug. 6.

Nixon, Jeddy D., New Braunfels, Tex. Systems of and apparatuses for flowing wells. 2,405,324; Aug. 6.

Nordberg Manufacturing Company, assignee: *See*—
Talboys, Henry E.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Liquid filling machine. 2,405,232; Aug. 6.

Northrop Aircraft, Inc., assignee: *See*—
Pavlecka, Vladimir H.

Nudenberg, Walter, Chicago, Ill., assignor to United States of America as represented by the Secretary of Agriculture. 3,6-epoxycyclohexene. 2,405,267; Aug. 6.

Nyhuis, Bert, Kankakee, assignor to Bear Brand Hosiery Co., Chicago, Ill. Knitting method and apparatus. 2,405,162; Aug. 6.

O-Cedar Corp'n, assignee: *See*—
Dupuy, Charles F. J.

Ohio Ferro-Alloys Corporation, assignee: *See*—
Vance, Calbert L.

Oil Devices, assignee: *See*—
Hayter, Bruce.

Oilgear Company, The, assignee: *See*—
Krainer, Edgar H.

Ontario Paper Company Limited, The, assignee: *See*—
Godwin, Gordon.

Oresman, Theodore, St. Louis, Mo. Convertible midriff dress. 2,405,368; Aug. 6.

Owens-Illinois Glass Company, assignee: *See*—
Plummer, Walter D.

Palliser, Leonard: *See*—
Sherman, Monroe, and Palliser.

Parsons, Ben G., Grosse Pointe, assignor to Fuel Charger Corporation, Detroit, Mich. Fuel injector. 2,405,163; Aug. 6.

Parsons, Edward T., Upper Montclair, and H. W. Sawyer, Nutley, N. J. Roofing. 2,405,325; Aug. 6.

Partington, Douglas E.: *See*—
Cooper, Alfred, and Partington.

Paul, Oreas H.: *See*—
Elliot, Donald C., and Paul.

Pavlecka, Vladimir H., Pacific Palisades, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Turbine stator. 2,405,164; Aug. 6.

Peckham, Robert H., U. S. Navy. Photographic developing tank. 2,405,233; Aug. 6.

Peerless Turbine Corporation, assignee: *See*—
Darling, Lewis A.

Peirce, Willis M., Lehighton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Operating metal retorts. 2,405,445; Aug. 6.

Pennell, John D., Jr.: *See*—
Hitchon, Carl K., and Pennell.

Pepper, Foster L., Glenside, Pa., assignor to American Cyanamid Company, New York, N. Y. Dyeing of suede. 2,405,165; Aug. 6.

Permanente Metals Corporation, The, assignee: *See*—
Rhoades, Donald A., and Scheer.
Von Stroh, Gerald.

Perrault, Bros., assignee: *See*—
Perrault, Lewis.

Perrault, Lewis, Tulsa, Okla., assignor of one-half to The Philip Carey Manufacturing Company, and one-half to Perrault, Bros. Roll supporting device. 2,405,446; Aug. 6.

Persson, Per O., South Bend, Ind., and C. W. Spohr, assignors to United States Government, as represented by the Secretary of War and his successors in office. Feed structure for cartridge belt links. 2,405,447; Aug. 6.

Pesco Products Co., assignee: *See*—
Holt, Ray G.

Philco Corporation, assignee: *See*—
Brown, Reynolds D., Jr.

Philco Radio and Television Corporation, assignee: *See*—
Neyzi, Ahmet H.
Thompson, Elmer O.

Phillips Petroleum Company, assignee: *See*—
Markley, Howard R.
Wolk, Louis.

Pillsbury Flour Mills Company, assignee: *See*—
Anderson, Edwin F.

Pines, Herman, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,405,516; Aug. 6.

Pitman, Richard W., West Hartford, Conn., assignor to Underwood Corporation. Business machine. 2,405,268; Aug. 6.

Pittsburgh Steel Company, assignee: *See*—
Kehrer, Ernest, and Faust.

Playground Equipment Company, assignee: *See*—
Franklin, Robert B.

Plotsky, Louis, Kansas City, Mo. Ear muff. 2,405,326; Aug. 6.

Plummer, Walter D., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Bottle carrier. 2,405,517; Aug. 6.

Polaroid Corporation, assignee: *See*—
Grey, David S.

Polevitzky, Igor B., Miami, Fla. Illuminating device. 2,405,518; Aug. 6.

Poole, Harold J.: *See*—
Lubbock, Isaac, Gollin, Lindsay, and Poole.

Poulsen, Charles I., and H. F. Rose, Akron, Ohio. Safety key cabinet. 2,405,369; Aug. 6.

Powers, Milton A., and N. H. Sutterfield, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Liquid fuel burning apparatus. 2,405,234; Aug. 6.

Prosperity Company, Inc., The, assignee: *See*—
Yanchenko, Basil J.

Prutsman, Alexander L., Portland, Oreg. Adjustable ladder. 2,405,269; Aug. 6.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Dittrich, Francis J.

Quaker Chemical Products Corporation, assignee: *See*—
Todd, Floyd.

Radio Corporation of America, assignee: *See*—
Bedford, Alda V., and Vendt.
Goldsmith, Alfred N.
Hillier, James and Baker.
Masters, Robert W.
Rajchman, Jan A.
Seeley, Stuart W.
Sinnett, Chester M.

Radio Patents Corporation, assignee: *See*—
Guanella, Gustav.

Rajchman, Jan A., Philadelphia, Pa., assignor to Radio Corporation of America. Frequency multiplier. 2,405,519; Aug. 6.

Randall, Boardman M., Portsmouth, assignor to TekWood, Inc., Lakeport, N. H. Underlay for floor coverings. 2,405,235; Aug. 6.

Ray, William R., Los Angeles, Calif., assignor to General Controls Co. Solenoid operator. 2,405,370; Aug. 6.

Raymond Laboratories, Inc., assignee: *See*—
Reed, Raymond E., Tenenbaum, and Beste.

Real Silk Hosiery Mills, Inc., assignee: *See*—
Sanderson, August A.

Reed, Raymond E., D. Tenenbaum, and M. D. Beste, St. Paul, Minn., assignors to Raymond Laboratories, Inc., St. Paul, Minn. Waving hair. 2,405,166; Aug. 6.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz, and Siegel.

Rend, William P., Chicago, Ill. Message sheet. 2,405,327; Aug. 6.

Resinous Products & Chemical Company, The, assignee: *See*—
Bruson, Herman A.

Rhoades, Donald A., Palo Alto, and G. B. Scheer, Berkeley, Calif., assignors, by mesne assignments, to The Permanente Metals Corporation. Electrode sealing means. 2,405,236; Aug. 6.

Richardson, Arthur B., and D. C. Thompson, Roanoke, Va., assignors to American Viscose Corporation, Wilmington, Del. Device for impregnating filamentary packages with liquids. 2,405,520; Aug. 6.

Riess, August H., Lawndale, assignor of one-third to H. G. Manley, Hawthorne, Calif. Electric flatiron and control therefor. 2,405,270; Aug. 6.

Ritter, Irving S., Plainfield, N. J., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Refrigerating apparatus. 2,405,448; Aug. 6.

Robinson, Joseph, Jr., assignor to Marsh Wall Products, Inc., Dover, Ohio. Sanding machine. 2,405,328; Aug. 6.

Robinson, Preston, Williamstown, and S. O. Dorst, assignors to Sprague Electric Company, North Adams, Mass. Electrical resistance element. 2,405,449; Aug. 6.

Roggie, William C.: *See*—
Negovan, Albert, Stratton, and Roggie.

Romanow, Frank F.: *See*—
Black, Robert Jr., and Romanow.

Roper, Geo. D., Corporation, assignee: *See*—
Hennessy, John F., and Thulander.

Rose, Henry F.: *See*—
Poulsen, Charles I., and Rose.

Rowe, William W., Cincinnati, Ohio, assignor to Cincinnati Industries, Inc. Web of stretchable material and bag made therefrom. 2,405,521; Aug. 6.

Royer, George L., and E. I. Stearns, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Apparatus for fluid treating under controlled conditions. 2,405,167; Aug. 6.

Ruebensaal, Clayton F., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Molding gloves. 2,405,329; Aug. 6.

Ruhlig, Arthur J., Washington, D. C. Electronic trigger circuit with time-delay. 2,405,237; Aug. 6.

Ryder, Willard D., Tulsa, Okla. Insulating structure. 2,405,330; Aug. 6.

Salmonsen, Anton, Great Kills, Staten Island, N. Y. Vibration eliminator for pressure regulators. 2,405,371; Aug. 6.

Salvesen, Jörgen R., R. L. Hossfeld, and R. J. Lovin, Wausau, Wis., assignors to Marathon Corporation. Making low molecular weight lignin degradation products. 2,405,450; Aug. 6.

Salvesen, Jörgen R., R. L. Hossfeld, and R. J. Lovin, Wausau, Wis., assignors to Marathon Corporation. Producing low molecular weight lignin degradation products. 2,405,451; Aug. 6.

Samuel, Arthur L.: *See*—
Anderson, Alva E., and Samuel.

Sanderson, August A., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Stocking. 2,405,331; Aug. 6.

Savage, John O., Trenton, N. J. Tree protector. 2,405,452; Aug. 6.

Savage, John O., Trenton, N. J. Fruit picker's apparatus. 2,405,453; Aug. 6.

Savitz, Christian W.: *See*—
Sturgess, John, Cade, and Savitz.

Sawyer, Hilon W.: *See*—
Parsons, Edward T., and Sawyer.

Scheer, George B.: *See*—
Rhoades, Donald A., and Scheer.

Schier, Joseph, Binghamton, N. Y. Self-cleaning comb and case therefor. 2,405,372; Aug. 6.

Schmidt, Lloyd K., assignee, et al.: *See*—
Gordon, George C., and Blackwelder.

Schroeppel, Harold H., Glen Rock, N. J., assignor to American Telephone and Telegraph Company. Toll telephone diversion system. 2,405,332; Aug. 6.

Schuler, Reginald G., Highland Park, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,405,168; Aug. 6.

Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine tool. 2,405,522; Aug. 6.

Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Circuit interrupter and control therefor. 2,405,454; Aug. 6.

Sease, Virgil B., and D. W. Woodward, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Light sensitive photographic compositions and elements. 2,405,523; Aug. 6.

Seaver, John D., Marblehead, Mass., assignor to General Electric Company. Permanent magnet. 2,405,455; Aug. 6.

Seeley, Harry E., Niagara Falls, N. Y., assignor to Moore Business Forms, Inc. Sheet delivering and printing mechanism. 2,405,373; Aug. 6.

Seeley, Stuart W., Roslyn, N. Y., assignor to Radio Corporation of America. Position determining system. 2,405,238; Aug. 6.

Seeley, Stuart W., Roslyn Heights, N. Y., assignor to Radio Corporation of America. Position determining system. 2,405,239; Aug. 6.

Sharpe, Donald B., North Tonawanda, and R. A. Baumgartner, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive article and making. 2,405,524; Aug. 6.

Shearer, William A., R. D. Shephard, and E. R. Watkins, New Castle, Ind., assignors to New Castle Products, New Castle, Pa. Locking latch structure. 2,405,240; Aug. 6

Shephard, Richard D.: *See*—
Shearer, William A., Shephard, and Watkins.

Sheridan, Hiram W., Oak Park, Ill. Two-speed parachute. 2,405,333; Aug. 6.

Sherman, Monroe, and L. Palliser, New York, N. Y. Earring. 2,405,525; Aug. 6.

Shomer, John E.: *See*—
Brown, Walter J., and Shomer.

Siegel, Joseph, New York, N. Y. Fastening means. 2,405,271; Aug. 6.

Signer, Rudolf, Gumligen, Bern, Switzerland. Methods of and apparatus for dialytically separating mixtures of substances. 2,405,456; Aug. 6.

Signode Steel Strapping Company, assignee: *See*—
Weiss, Le Roy.

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Automatic depth control for agricultural implements. 2,405,334; Aug. 6.

Singer, Francis L., Jr., Peekskill, N. Y. Bookmark. 2,405,374; Aug. 6.

Sinks, Allen T., Beach Bluff, Mass., assignor to General Electric Company. Coil winding for electric apparatus and method of making same. 2,405,457; Aug. 6.

Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Automatic stop for phonographs. 2,405,526; Aug. 6.

Skolnik, Max, assignor to Fibro-Mold Specialties, Inc., Chicago, Ill. Laminated material and making same. 2,405,527; Aug. 6.

Skolnik, Max, assignor to Fibro-Mold Specialties, Inc., Chicago, Ill. Forming shaped articles. 2,405,528; Aug. 6.

Slack, Frederic W., Detroit, and C. C. Utz, Magnolia, assignors to Chrysler Corporation, Highland Park, Mich. Vehicle wheel connecting joint. 2,405,458; Aug. 6.

Smith, A. O., Corporation, assignee: *See*—
Higgins, Waldo W.
Westin, Sven, and A.

Smith, Arthur D., assignor to Barium Steel Corporation, Canton, Ohio. Ice manufacture. 2,405,272; Aug. 6.

Smith, Arthur D., assignor to Barium Steel Corporation, Canton, Ohio. Ice manufacturing apparatus. 2,405,273; Aug. 6.

Smith, Ernest, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada. Dispensing container for roll paper. 2,405,459; Aug. 6.

Smith, Frank, Huddersfield, England. Liquid delivery apparatus. 2,405,375; Aug. 6.

Smith, Gail P., assignor to Corning Glass Works, Corning, N. Y. Electrical condenser. 2,405,529; Aug. 6.

Smith, Glen A., assignor to General Motors Corporation, Detroit, Mich. Door seal. 2,405,460; Aug. 6.

Smith, Henry J., Detroit, Mich. Silencer for drains. 2,405,241; Aug. 6.

Society of Chemical Industry in Basle, assignee: *See*—
Hanhart, Walter.

Solar Aircraft Company, assignee: *See*—
Chronis, Steve.

Southworth, George C., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave radio transmission. 2,405,242; Aug. 6.

Speare, Leolyn F., Westfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Oil burner. 2,405,248; Aug. 6.

Spohr, Carl W.: *See*—
Persson, Per O., and Spohr.

Sprague Electric Company, assignee: *See*—
Robinson, Preston, and Dorst.

Sprow, John H., Jackson, Ohio. Blast furnace tuyère. 2,405,461; Aug. 6.

Stagnaro, Henry A., assignee: *See*—
Delnecchi, Anthony W.

Stair, Carlyle B., Downers Grove, Ill. Wrench. 2,405,462; Aug. 6.

Stamets, William K., assignee: *See*—
Hibbard, Robert L.

Standard Oil Company, assignee: *See*—
Bahlke, William H., and Carpenter.

Standard, Oil Company, The, assignee: *See*—
Burk, Robert E., and Hughes.

Standard Oil Development Company, assignee: *See*—
Atkins, George T., Jr.
Connolly, Gerald C.
Laughlin, Kenneth C.
Marsh, Nat H.
Wilde, Henry D.
Zimmer, John C., and Morway.

Stanley, Paul H., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Rotary wing aircraft. 2,405,244; Aug. 6.

Stapling Machines Co., assignee: *See*—
Stivers, Earl R.

Stearns, Edwin I., Jr.: *See*—
Royer, George L., and Stearns, Jr.

Steel Ingot Production, Inc., assignee: *See*—
Lindemuth, Lewis B.

Stites, Joseph D., Chicago, Ill., assignor to American Isteg Steel Corporation, New York, N. Y. Reinforcement bar and making same. 2,405,274; Aug. 6.

Stivers, Earl R., Rockaway, N. J., assignor to Stapling Machines Co. Box. 2,405,463; Aug. 6.

Storer, John E., Jr., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Seal. 2,405,464; Aug. 6.

Stowe, Vernon M., Collinsville, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Purification of aluminum hydrate. 2,405,275; Aug. 6.

Stratton, Estel R.: *See*—
Negovan, Albert, Stratton, and Roggie.

Stubbins, William, assignor to D. P. J. Kelly, Toronto, Ontario, Canada. Advertising display device. 2,405,376; Aug. 6.

Studebaker Corporation, The, assignee: *See*—
Butzbach, Orville K.

Stuhlfauth, George: *See*—
Juvinall, James W., and Stuhlfauth.

Stuntz, Hans: *See*—
Bokovoy, Samuel A., and Stuntz.

Sturgess, Inc., assignee: *See*—
Sturgess, John, Cade, and Savitz.

Sturgess, John, and J. W. Cade, La Canada, and C. W. Savitz, Norwalk, assignors to Sturgess, Inc., Glendale, Calif. Cable tension regulator. 2,405,377; Aug. 6.

Submarine Signal Company, assignee: *See*—
Benioff, Hugo.

Sullivan, John O., Sioux City, Iowa. Conveyer construction. 2,405,530; Aug. 6.

Sulzer Frères, Société Anonyme, assignee: *See*—
Huber, Walter.
Kilchenmann, Walter.

Summerfield, Martin, Pasadena, assignor to Aerojet Engineering Corporation, Azusa, Calif. Jet propulsion motor. 2,405,465; Aug. 6.

Sun Rubber Company, The, assignee: *See*—
Kempthorn, David C.

Sutterfield, Noel H.: *See*—
Powers, Milton A., and Sutterfield.

Sutton, Otis B., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,405,169; Aug. 6.

Sykes, John, assignor to Enfield Rolling Mills Limited, Enfield, England. Copper base alloys. 2,405,531; Aug. 6.

Tabb, Warner T., assignor to Eisemann Corporation, Brooklyn, N. Y. Fluid transfer apparatus. 2,405,466; Aug. 6.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Internal grinder and polisher. 2,405,467; Aug. 6.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Foundry cutoff machine. 2,405,468; Aug. 6.

Taylor, Ambrose G., Birmingham, England, assignor to Calgon Inc., Pittsburgh, Pa. Treatment of water by suppressing the ions of alkaline earth metals. 2,405,276; Aug. 6.

Taylor, Myron L.: *See*—
Lehman, Samuel K., and Taylor.

TekWood, Inc., assignee: *See*—
Randall, Boardman M.

Telefonaktiebolaget L. M. Ericsson, assignee: *See*—
Blomberg, Knut H.

Teletype Corporation, assignee: *See*—
Schuler, Reginald G.
Zenner, Walter J.

Tenenbaum, David: *See*—
Reed, Raymond E., Tenenbaum, and Beste.

Thomas, Frank E., Chicago, Ill. Conveyer structure. 2,405,378; Aug. 6.

Thomas, Harry L., assignor to Hagerstown Leather Company, Hagerstown, Md. Secret pocket billfold. 2,405,379; Aug. 6.

Thompson, Donald C.: *See*—
Richardson, Arthur B., and Thompson.

Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Tuning apparatus. 2,405,277; Aug. 6.

Thompson, Ralph B.: *See*—
Chenicek, Joseph A., and Thompson.

Thulander, John I.: *See*—
Hennessy, John F., and Thulander.

Timken-Detroit Axle Company, The, assignee: *See*—
Powers, Milton A., and Sutterfield.

Timken Roller Bearing Company, The, assignee: *See*—
Buckwalter, Tracy V.

Tirrel, Frank J., George, Iowa. Plank or board joint. 2,405,469; Aug. 6.

Tobe Deutschmann Corporation, assignee: *See*—
Geoghegan, Eamonn D. A.

Todd, Floyd, Drexel Hill, assignor to Quaker Chemical Products Corporation, Conshohocken, Pa. Corrosion testing apparatus. 2,405,532; Aug. 6.

Toone B., (Nottingham) Limited: *See*—
Cole, Bernard T.

Troxler, Charles G., North Canton, assignor to The Hoover Company, Canton, Ohio. Suction cleaner. 2,405,170; Aug. 6.

Tuerck, Karl H. W., Banstead, and H. J. Lichtenstein, Epsom Downs, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of acetic anhydride. 2,405,470; Aug. 6.

Tuerck, Karl H W., Heathfield, Buckles Way, Banstead, and E. H. Brittain, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of acetic anhydride. 2,405,471; Aug. 6.

Turk, Amos, Mount Lebanon, Pa., and P. D. Boone, Washington, D. C. Conjugated fatty polyene compounds. 2,405,380; Aug. 6.

Turner, William L., assignor of one-half to B. Moore, Jr., San Antonio, Tex. Concrete bridge superstructure. 2,405,335; Aug. 6.

Tuttle, William N., assignor to General Radio Company, Cambridge, Mass. Diaphragm. 2,405,472; Aug. 6.

Underwood Corporation, assignee: *See*—
Pitman, Richard W.

Union Oil Company of California, assignee: *See*—
Lake, George R.

United Shoe Machinery Corporation, assignee: *See*—
Ushakoff, Alexis E.

United States of America, assignee: *See*—
Eksergian, Caroius L.

United States Rubber Company, assignee: *See*—
Chittum, James P., and Hulse.

Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A., and Thompson.
Pines, Herman.

Universal Paper Products Company, assignee: *See*—
Amberg, Walter E.

Universal Winding Company, assignee: *See*—
Jacobson, Walter V.

Ushakoff, Alexis E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Examining the interiors of gun barrels. 2,405,246; Aug. 6.

Utz, Chester C.: *See*—
Slack, Frederic W., and Utz.

Valentine, Frank E., Schenectady, N. Y., assignor to General Electric Company. Cam gear structure. 2,405,473; Aug. 6.

Valentino, Michael L.: *See*—
Kylin, Oskar and H. O., and Valentino.

Vance, Calbert L., Zanesville, assignor to Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferroalloy briquette and manufacture of same. 2,405,278; Aug. 6.

Van Degrift, Thomas C., assignor to General Motors Corporation, Detroit, Mich. Balancing machine. 2,405,474; Aug. 6.

Van Spankeren, Gerardo H., assignor, by mesne assignments, to "Eterpen" Sociedad Anonima Financiera, also known as Eterpen S. A., Buenos Aires, Argentina. Writing instrument. 2,405,381; Aug. 6.

Varney, Gordon, Chicago, Ill. Track structure for model railways. 2,405,533; Aug. 6.

Verd-A-Ray Processing Company, assignee: *See*—
Levi, Ormonde S., and Hoyt.

Verson Allsteel Press Company, assignee: *See*—
Werner, Herbert B., and Verson.

Verson, John: *See*—
Werner, Herbert B., and Verson.

Victor, John H., Wilmette, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Oil seal construction. 2,405,279; Aug. 6.

Victor Manufacturing & Gasket Company, assignee: *See*—
Victor, John H.

Volet, Edouard, Vevey, Switzerland. Accelerometer. 2,405,382; Aug. 6.

Von Stroh, Gerald, Berkeley, assignor to The Permanente Metals Corporation, Oakland, Calif. Polychloroprene composition. 2,405,336; Aug. 6.

Voreaux, Paul J., Saint-Cloud, assignor to R. Gentil, Neuilly-sur-Seine, France. Gas pump. 2,405,475; Aug. 6.

Veth, Anthony, Gainesville, Tex. Bale loading and unloading wagon. 2,405,534; Aug. 6.

Wackett, Lawrence J., Brighton, Victoria, Australia. Means for aiming guns mounted on aircraft. 2,405,383; Aug. 6.

Waldorf Paper Products Company, assignee: *See*—
Guyer, Reynolds, and Hennessey.

War, United States Government, as represented by the Secretary of, and his successors in office, assignee: *See*—
Persson, Per O., and Spohr.

Wassell, Frank A., Schenectady, N. Y., assignor to General Electric Company. Fusion welding. 2,405,542; Aug. 6.

Waterfield, John F., Philadelphia, Pa. Gear cutting. 2,405,337; Aug. 6.

Watkins, Ernest R.: *See*—
Shearer, William A., Shephard, and Watkins.

Watson, Edward F., Larchmont, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound recording system. 2,405,246; Aug. 6.

Weatherhead, Albert J., Jr., Shaker Heights, assignor to The Weatherhead Company, Cleveland, Ohio. Stem attaching globe valves. 2,405,476; Aug. 6.

Weatherhead Company, The, assignee: *See*—
Weatherhead, Albert J., Jr.

Weaver, John A., Santa Monica, Calif. Gauge for spherical containers. 2,405,247; Aug. 6.

Weiss, Le Roy, assignor to Signode Steel Strapping Company, Chicago, Ill. Adjustable pallet. 2,405,535; Aug. 6.

Weller, Arnold N., Milwaukee, Wis. Storm window. 2,405,248; Aug. 6.

Wells, Martin, Los Angeles, Calif. Electrode holder. 2,405,536; Aug. 6.

Wendt, Karl R.: *See*—
Bedford, Alda V., and Wendt.

Werner, Calvin J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Actuator. 2,405,338; Aug. 6.

Werner, Herbert B., and J. Verson, assignors to Verson Allsteel Press Company, Chicago, Ill. Punch press. 2,405,537; Aug. 6.

Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Ray-generating apparatus. 2,405,477; Aug. 6.

Western Electric Company, Incorporated, assignee: *See*—
Barkstrom, Elmer E., and Williams.
Juvinall, James W., and Stuhlfauth.

Westin, Axel: *See*—
Westin, Sven and A.

Westin, Sven, West Allis, and A. Westin, assignors to A. O. Smith Corporation, Milwaukee, Wis. Thickening a localized longitudinal element in a tube. 2,405,478; Aug. 6.

Westinghouse Electric Corporation, assignee: *See*—
Ritter, Irving S.

White, Albert W., New York, N. Y. Illuminating ankle bracelet and the like. 2,405,384; Aug. 6.

White, Clifford B., assignor to American-La France-Foamite Corporation, Elmira, N. Y. Foam generation. 2,405,538; Aug. 6.

Whitlock, Fred W., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Water treatment device. 2,405,479; Aug. 6.

Wilde, Henry D., Houston, Tex., assignor to Standard Oil Development Company. Polymerization process. 2,405,480; Aug. 6.

Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Face clutch. 2,405,171; Aug. 6.

Wilkes, Frederic, Wilkinsburg, Pa. Grease dispenser. 2,405,481; Aug. 6.

Williams, Lorris: *See*—
Barkstrom, Elmer E., and Williams.

Willis, Charles C., Bound Brook, N. J., assignor to Crown Fastener Corporation, Warren, R. I. Enclosure. 2,405,539; Aug. 6.

Willis, Milton P., Dallas, Tex., assignor to American Telephone and Telegraph Company. Equipment for observing dial tone speed. 2,405,339; Aug. 6.

Wilson, Mitchell, assignor to Fred'k H. Levey Co., Inc., New York, N. Y. Applying coating films. 2,405,249; Aug. 6.

Wingate, Jack E., Norfolk, Va. Slicing apparatus. 2,405,385; Aug. 6.

Wolf, Austin M., Plainfield, N. J. Vehicle suspension control mechanism. 2,405,250; Aug. 6.

Wolk, I. Louis, Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of saturated hydrocarbons. 2,405,386; Aug. 6.

Wood Conversion Company, assignee: *See*—
Heritage, Clark C.

Woodward, David W.: *See*—
Sease, Virgil B., and Woodward.

Yanchenko, Basil J., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Riveter. 2,405,172; Aug. 6.

Yeomans, Lucien I., and De W. Clausen, assignors to Lucien I. Yeomans, Inc., Chicago, Ill. Machine tool. 2,405,387; Aug. 6.

Yeomans, Lucien I., Inc., assignee: *See*—
Yeomans, Lucien I., and Clausen.

Youngstown Welding & Engineering Co., assignee: *See*—
McKee, Stanley H.

Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Projector for page printers. 2,405,173; Aug. 6.

Zimmer, John C., Union, and A. J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Chemical products and preparing same. 2,405,482; Aug. 6.

Zint, George, Wapakoneta, Ohio. Cigarette rolling machine. 2,405,388; Aug. 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Fastening means, Rail. R. T. Scholes. Re. 22,776; Aug. 6.

LIST OF DESIGN INVENTIONS

Bracelet. T. Kelliher. 145,356; Aug. 6.
Bracelet link or similar article. J. Dubinsky and A. Insko. 145,355; Aug. 6.
Bracelet, Watch. R. Lambert. 145,357; Aug. 6.
Clock, Alarm. F. Collura. 145,351–3; Aug. 6.
Clock, money bank and calendar, Combined wall. L. D. Cherneff. 145,350; Aug. 6.
Compact. J. W. Thomsen. 145,367; Aug. 6.
Cup, Cosmetic. C. Martucci. 145,360; Aug. 6.
Fabric or similar article, Liturgical. A. Baumgartner. 145,347; Aug. 6.
Fork or similar article. J. Brunetti. 145,349; Aug. 6.
Frame or similar article, Picture. R. W. Mandl. 145,358; Aug. 6.
Game board. M. R. Rice. 145,362; Aug. 6.
Hand tool unit, Portable power-driven. F. E. Anderson. 145,346; Aug. 6.
Knocker, Door. J. Stephens. 145,365; Aug. 6.
Projector, Slide. L. J. Rubin. 145,364; Aug. 6.
Sweater. B. A. Wiechmann. 145,368–73; Aug. 6.
Tablecloth or similar article. A. V. Corso. 145,354; Aug. 6.
Tablecloth or similar article. L. G. Rohner. 145,363; Aug. 6.
Tire, Aircraft. C. A. Bigelow. 145,348; Aug. 6.
Tool, Work-illuminating. R. S. Rains. 145,361; Aug. 6.
Unit for handbags or the like, Plastic. A. C. Manovill. 145,359; Aug. 6.
Vase, Hanging flower. F. J. Stollsteimer. 145,366; Aug. 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article and making. D. B. Sharpe and R. A. Baumgartner. 2,405,524; Aug. 6.
Abrasive binders and abrasive articles produced thereby, Curing. E. P. Davis. 2,405,191; Aug. 6.
Accelerometer. E. Volet. 2,405,382; Aug. 6.
Accounting machine, Record controlled. S. Brand and J. M. Cunningham. 2,405,287; Aug. 6.
Accumulator. W. Freund. 2,405,349; Aug. 6.
Acetic anhydride, Manufacture of. K. H. W. Tuerck and E. H. Brittain. 2,405,471; Aug. 6.
Acetic anhydride, Manufacture of. K. H. W. Tuerck and H. J. Lichtenstein. 2,405,470; Aug. 6.
Acetylene process. W. H. Bahlke and M. T. Carpenter. 2,405,395; Aug. 6.
Actuator. C. J. Werner. 2,405,338; Aug. 6.
Adjustment system. M. W. Gaiser. 2,405,419; Aug. 6.
Aircraft, Rotary wing. P. H. Stanley. 2,405,244; Aug. 6.
Aircraft supercharger arrangement. M. A. Edwards. 2,405,413; Aug. 6.
Air treating apparatus. C. F. J. Dupuy. 2,405,494; Aug. 6.
Alloys, Copper base. J. Sykes. 2,405,531; Aug. 6.
Alumina, Production of. C. K. Hitchon and J. D. Pennell, Jr. 2,405,426; Aug. 6.
Aluminum hydrate, Purification of. V. M. Stowe. 2,405,275; Aug. 6.
Amplifier, Television signal. M. Cawein. 2,405,290; Aug. 6.
Amusement apparatus. R. B. Franklin. 2,405,495; Aug. 6.
Antenna system. G. W. Fyler. 2,405,123; Aug. 6.
Apparatus for analyzing rotational unbalances. E. L. Kent. 2,405,430; Aug. 6.
Apparatus for breaking foam. L. E. Gates. 2,405,138; Aug. 6.
Apparatus for cracking nuts. W. F. Grupe. 2,405,303; Aug. 6.
Apparatus for fluid treating under controlled conditions. G. L. Royer and E. I. Stearns, Jr. 2,405,167; Aug. 6.
Apparatus for grinding the surfaces of small objects. H. F. Fruth. 2,405,417; Aug. 6.
Apparatus for inspecting manufactured articles. C. P. Abrams. 2,405,483; Aug. 6.
Apparatus for treating fibrous materials. C. R. Carpenter. 2,405,401; Aug. 6.
Applying molten metal on strip stock, Method and apparatus for. C. A. Mann. 2,405,220; Aug. 6.
Aromatizing with consumption of hydrogen. R. E. Burk and E. C. Hughes. 2,405,184; Aug. 6.
Article forming apparatus. E. E. Barkstrom and L. Williams. 2,405,485; Aug. 6.
Arylamine salts of anthraquinone sulphonic acids as printing aids. R. H. Kienle and C. A. Amick. 2,405,151; Aug. 6.
Attaching means for globe valves, Stem. A. J. Weatherhead, Jr. 2,405,476; Aug. 6.
Attachment for sewing machines, Buttonhole. J. Hickey. 2,405,253; Aug. 6.
Audiphone, Bone construction. H. Koch. 2,405,433; Aug. 6.
Auxiliary gasoline container. R. D. Mayo. 2,405,442; Aug. 6.
Balancing machine. T. C. Van Degrift. 2,405,474; Aug. 6.
Bar and making the same, Reinforcement. J. D. Stites. 2,405,274; Aug. 6.
Baseball base. J. P. Corbett. 2,405,492; Aug. 6.
Basket handle. D. A. Larkin. 2,405,310; Aug. 6.
Batch distillation. G. T. Atkins, Jr. 2,405,393; Aug. 6.
Beading and expanding tool and method, Tube. K. C. Bugg and H. L. Hart. 2,405,399; Aug. 6.
Bearing: *See*—
Shaft bearing.
Bedspring. C. J. Elder. 2,405,296; Aug. 6.
Belt, Driving. E. F. Gingras. 2,405,496; Aug. 6.
Billfold, Secret pocket. H. I. Thomas. 2,405,379; Aug. 6.
Blanching machine, Nut. H. P. Curlee. 2,405,292; Aug. 6.
Blind adjusting means, Venetian. G. W. Kirsch. 2,405,153; Aug. 6.
Board: *See*—
Composition panel board.
Body and chassis structure, Combined. J. Ledwinka and J. W. Kelly. 2,405,260; Aug. 6.
Bolt or nut, Self-locking. L. A. Carter. 2,405,402; Aug. 6.
Bomb sight. R. M. Lynn. 2,405,263; Aug. 6.
Bookmark. F. L. Singer, Jr. 2,405,374; Aug. 6.
Bottle carrier. W. D. Plummer. 2,405,517; Aug. 6.
Box: *See*—
Railroad journal box.
Box. E. R. Stivers. 2,405,463; Aug. 6.
Bracelet and the like, Illuminated ankle. A. W. White. 2,405,384; Aug. 6.
Brake: *See*—
Disk brake.
Brake arrangement. C. L. Eksergian and J. H. Coombes. 2,405,119; Aug. 6.
Brooching machine. E. H. Krainer. 2,405,434; Aug. 6.
Bucket locking means. J. B. Botten. 2,405,131; Aug. 6.
Building construction. A. B. Cullen. 2,405,116; Aug. 6.
Bulb, Electric light. O. S. Levi and R. A. Hoyt. 2,405,261; Aug. 6.
Burner: *See*—
Hydroxylating pot type Oil burner.
burner.
Business machine. R. W. Pitman. 2,405,268; Aug. 6.
Cabinet: *See*—
Safety key cabinet.
Cable tension regulator. J. Sturgess, J. W. Cade, and C. W. Savitz. 2,405,377; Aug. 6.
Calculator or distance and course computer, Rhumb line. J. E. Clemons and J. G. Nelson. 2,405,113; Aug. 6.
Capsules, Forming closed metal. G. E. Franck. 2,405,201; Aug. 6.
Car: *See*—
Tractor drawn freight
hauling car.
Carbon, Activating primary. W. C. and O. P. M. Goss. 2,405,206; Aug. 6.
Carbon arc electrode holder. S. Chronis. 2,405,403; Aug. 6.
Carbon pile voltage regulator. W. G. Neild. 2,405,514; Aug. 6.
Carriage, Work. C. K. Lamb. 2,405,259; Aug. 6.
Carrier: *See*—
Bottle carrier.
Carton, Receptacle dispensing. W. E. Amberg. 2,405,107; Aug. 6.
Cartridge, Bearing seal. D. N. Evans. 2,405,120; Aug. 6.
Cartridge, Dry firing. J. F. Jack. 2,405,308; Aug. 6.
Catalytic dehydrogenation. K. C. Laughlin. 2,405,436; Aug. 6.
Charger for explosives. E. K. Lefren. 2,405,507; Aug. 6.
Charging machine. E. E. Brosius. 2,405,342; Aug. 6.
Checker for open hearth regenerative furnaces. L. B. Lindemuth. 2,405,363; Aug. 6.
Chemical products and preparing same. J. C. Zimmer and A. J. Morway. 2,405,482; Aug. 6.
Cigarette rolling machine. G. Zint. 2,405,388; Aug. 6.
Circuit: *See*—
Electric circuit. Transmission coupling circuit.
Signal correction circuit.
Circuit interrupter and control therefor. W. M. Scott, Jr. 2,405,454; Aug. 6.
Circuit with time-delay, Electronic trigger. A. J. Ruhlig. 2,405,237; Aug. 6.
Clamp or connector, Contact-making wire. H. H. Eby. 2,405,412; Aug. 6.
Clamping device. L. B. Glaze. 2,405,251; Aug. 6.
Cleaner: *See*—
Suction cleaner.
Clip: *See*—
Safety clip.
Clutch: *See*—
Face clutch. Friction clutch.
Coach body. D. E. Austin. 2,405,394; Aug. 6.
Coating films, Applying. M. Wilson. 2,405,249; Aug. 6.
Comb and case therefor, Self-cleaning. J. Schier. 2,405,372; Aug. 6.
Communication system. R. V. L. Hartley. 2,405,211; Aug. 6.
Communication system, Secret. A. N. Goldsmith. 2,405,252; Aug. 6.
Composite strip stock, Method and apparatus for making. C. A. Mann. 2,405,222; Aug. 6.
Composition panel board. W. F. Hayes. 2,405,423; Aug. 6.
Compressor, Centrifugal. R. Birmann. 2,405,284; Aug. 6.
Compressor, Variable ratio. R. Birmann. 2,405,282; Aug. 6.
Concrete bridge superstructure. W. L. Turner. 2,405,335; Aug. 6.
Condenser: *See*—
Electrical condenser.
Connection, Electrical. V. E. Carlson and T. C. Freedom. 2,405,111; Aug. 6.

Construction for rail car underframes, Bolster. A. G. Dean. 2,405,117; Aug. 6.
Container: *See*—
Auxiliary gasoline container.
Container for frozen foods. R. Guyer and R. J. Hennessey. 2,405,499; Aug. 6.
Container for roll paper, Dispensing. E. Smith. 2,405,459; Aug. 6.
Control device, Automatic altitude. R. L. Mayrath. 2,405,228; Aug. 6.
Control for agricultural implements, Automatic depth. W. H. Silver. 2,405,324; Aug. 6.
Control for supercharged engines, System of. C. H. Jorgensen and E. M. Claytor. 2,405,809; Aug. 6.
Control mechanism for dispensing apparatus. H. E. Marvel. 2,405,264; Aug. 6.
Control network, Transmission. A. Alford. 2,405,174; Aug. 6.
Control system for rotative winged aircraft. H. S. Campbell. 2,405,188; Aug. 6.
Conveyer construction. J. O. Sullivan. 2,405,530; Aug. 6.
Conveyer structure. F. E. Thomas. 2,405,378; Aug. 6.
Conveyer table. R. L. Hibbard. 2,405,141; Aug. 6.
Cooling apparatus. H. W. Kleist. 2,405,432; Aug. 6.
Corrosion testing apparatus. F. Todd. 2,405,532; Aug. 6.
Coupling. F. S. Keahey. 2,405,148; Aug. 6.
Coupling device, Amplifier. A. H. Neyzi. 2,405,515; Aug. 6.
Coupling device for pipes or tubes. W. H. J. Brock. 2,405,489; Aug. 6.
Curling device, Hair. A. Kiernan. 2,405,431; Aug. 6.
Curtain saver. V. J. and J. W. Hansen. 2,405,854; Aug. 6.
Cushion and life preserver, Combination. G. Bailhe. 2,405,484; Aug. 6.
Cutoff machine, Foundry. H. H. Talboys. 2,406,468; Aug. 6.
Cutting device. F. W. Goodrich. 2,405,204; Aug. 6.
Deicer unloading valve. S. K. Lehman and M. L. Taylor. 2,405,362; Aug. 6.
Delivering and printing mechanism, Sheet. H. E. Seeley. 2,405,373; Aug. 6.
Device for carnivals, Amusement. G. C. Brown. 2,405,108; Aug. 6.
Device for impregnating filamentary packages with liquids. A. B. Richardson and D. C. Thompson. 2,405,520; Aug. 6.
Device for overvoltage, Counting. P. Fehr. 2,405,121; Aug. 6.
Device for slicing butter or the like. L. Livadas. 2,405,311; Aug. 6.
Dialytically separating mixtures of substances, Methods of and apparatus for. R. Signer. 2,405,456; Aug. 6.
Diaphragm. W. N. Tuttle. 2,405,472; Aug. 6.
Di-b-alkenyl ethers to alkadienes and alkali metal alkenylates, Conversion of. H. Dreyfus, F. Bryans, and J. G. N. Drewitt. 2,405,347; Aug. 6.
Direction finder, Phase type direct indicating. M. K. Goldstein. 2,405,263; Aug. 6.
Dishwasher, House type. C. O. Kauffman. 2,404,147; Aug. 6.
Disk brake. H. T. Lambert. 2,405,219; Aug. 6.
Dispenser: *See*—
Grease dispenser.
Display device, Advertising. W. Stubbins. 2,405,376; Aug. 6.
Distance measuring system. W. J. Brown and J. E. Shomer. 2,405,134; Aug. 6.
Distillation apparatus, Solar. W. R. P. Delano and W. E. Meissner. 2,405,118; Aug. 6.
Distributing system, Call. B. D. Holbrook and M. A. Logan. 2,405,214; Aug. 6.
Domestic appliance. R. Clark. 2,405,404; Aug. 6.
Double deck vehicle. F. J. Dittrich. 2,405,136; Aug. 6.
Dress, Convertible midriff. T. Oresman. 2,405,368; Aug. 6.
Drill: *See*—
Twist drill.
Drill. J. Bullock. 2,405,110; Aug. 6.
Drive, especially for railway vehicles, Axle. W. B. Dean. 2,405,193; Aug. 6.
Dyestuffs of the stilbene series and making, Polyazo. W. Hanhart. 2,405,353; Aug. 6.
Ear muff. L. Plotsky. 2,405,326; Aug. 6.
Earring. M. Sherman and L. Palliser. 2,405,525; Aug. 6.
Elastic fluid engine. S. L. G. Knox. 2,405,359; Aug. 6.
Electric circuit. B. D. Bedford. 2,405,397; Aug. 6.
Electrical condenser. Q. P. Smith. 2,405,529; Aug. 6.
Electrode holder. M. Wells. 2,405,536; Aug. 6.
Electrolytes, Composition for purifying. D. L. Griffith and L. G. Hendrickson. 2,405,302; Aug. 6.
Electromagnet. C. E. Basley. 2,405,396; Aug. 6.
Electromechanical device. R. Black, Jr., and F. F. Romanow. 2,405,179; Aug. 6.
Eliminator for pressure regulators, Vibration. A. Salmonsen. 2,405,371; Aug. 6.
Enclosure. C. C. Willis. 2,405,539; Aug. 6.
Endoethylene halocyclopentanoindanes. H. A. Bruson. 2,405,183; Aug. 6.
Engine: *See*—
Elastic fluid engine. Two-stroke engine.
Engines in aircraft, Cooling of. F. B. Halford and C. L. Cowdrey. 2,405,422; Aug. 6.
Envelope, Self-addressing. E. Moen. 2,405,511; Aug. 6.
Equipment for observing dial tone speed. M. P. Willis. 2,405,339; Aug. 6.
Explosive operated valve. I. Lubbock, G. J. Gollin, A. Lindsay, and H. J. Poole. 2,405,439; Aug. 6.
Explosive, Stabilized. Le R. V. Clark. 2,405,189; Aug. 6.
Extractor: *See*—
Multiple contact countercurrent extractor.
Face clutch. E. Wildhaber. 2,405,171; Aug. 6.
Fastening device. A. G. Herreshoff. 2,405,424; Aug. 6.
Fastening means. J. Siegel. 2,404,271; Aug. 6.
Feed mechanism, Gun. S. G. Green. 2,405,207; Aug. 6.
Fence machine. E. Kehrer and C. E. Faust. 2,405,257; Aug. 6.
Ferro-alloy brique and manufacture of same. C. L. Vance. 2,405,278; Aug. 6.
Fiber from vegetable matter, Process and apparatus for production of. C. C. Heritage. 2,405,213; Aug. 6.
Filling machine, Liquid. R. E. J. Nordquist. 2,405,232; Aug. 6.
Filter: *See*—
Radiographic filter.
Firearm rear sight. H. F. Mossberg and E. Bullard. 2,405,512; Aug. 6.
Fire extinguisher, Automatic. O. E. Barnard. 2,405,125; Aug. 6.
Fire extinguishing composition and making same. D. Levin. 2,405,438; Aug. 6.
Flatiron and control therefor, Electric. A. H. Riess. 2,405,270; Aug. 6.
Floating structure. F. G. Creed. 2,405,115; Aug. 6.
Fluid mechanism, Elastic. R. Birmann. 2,405,283; Aug. 6.
Fluid pressure gauge. W. S. Faust and H. J. Lavo. 2,405,199; Aug. 6.
Fluid pump. T. D. Nisbet. 2,405,322; Aug. 6.
Foam generation. C. B. White. 2,405,538; Aug. 6.
Forming machine. L. G. Berquist. 2,405,128; Aug. 6.
Frame: *See*—
Open-faced air filter frame
Frequency determining system. S. A. Bokovoy and H. Stuntz. 2,405,181; Aug. 6.
Frequency multiplier. J. A. Rajchman. 2,405,519; Aug. 6.
Friction clutch. G. T. Jarret. 2,405,357; Aug. 6.
Fuel burning apparatus, Liquid. M. A. Powers and N. H. Sutterfield. 2,405,234; Aug. 6.
Fuel feed systems, Control. J. E. Bates. 2,405,126; Aug. 6.
Furnace tuyère, Blast. J. H. Sprow. 2,405,461; Aug. 6.
Garment holder. P. Gilliland. 2,405,124; Aug. 6.
Gas pump. P. J. Voreaux. 2,405,475; Aug. 6.
Gauge: *See*—
Fluid pressure gauge.
Gauge for spherical containers. J. A. Weaver. 2,405,247; Aug. 6.
Gear cutting. J. F. Waterfield. 2,405,337; Aug. 6.
Gear structure, Cam. F. E. Valentine. 2,405,473; Aug. 6.
Gels, Preparation of synthetic. G. C. Connelly. 2,405,408; Aug. 6.
Geometrical instrument. W. P. Mason. 2,405,227; Aug. 6.
Glassworking apparatus. J. W. Juvinall and G. Stuhlfauth. 2,405,504; Aug. 6.
Globe. A. F. Fukal. 2,405,418; Aug. 6.
Glove, Dairyman's. R. C. Logan. 2,405,154; Aug. 6.
Gloves, Molding. C. F. Ruebensaal. 2,405,329; Aug. 6.
Grease dispenser. F. Wilkes. 2,405,481; Aug. 6.
Grinder and polisher, Internal. H. H. Talboys. 2,405,467; Aug. 6.
Guard for vehicles, especially trucks, Splash. A. R. Lindsay. 2,405,262; Aug. 6.
Gun barrels, Examining the interior. A. E. Ushakoff. 2,405,245; Aug. 6.
Gun mechanism, Recoilless. C. L. Eksergian. 2,405,414; Aug. 6.
Gun sighting device. E. J. Martin. 2,405,441; Aug. 6.
Guns mounted on aircraft, Aiming. L. J. Wackett. 2,405,383; Aug. 6.
Hair, Waving. R. E. Reed, D. Tenenbaum, and M. D. Beste. 2,405,166; Aug. 6.
Handle: *See*—
Basket handle.
Harvester, Beet. G. C. Gordon and E. F. Blackwelder. 2,405,205; Aug. 6.
Heat exchanger. D. E. Jack and D. Augsburger. 2,405,256; Aug. 6.
Heater. H. B. Holthouse. 2,405,427; Aug. 6.
Heater. H. J. De N. McCollum. 2,405,317; Aug. 6.
Heating system. H. B. Holthouse. 2,405,143–5; Aug. 6.
Hoist. S. S. McIntyre. 2,405,156; Aug. 6.
Hoist, Ladder. A. J. Kleidon. 2,405,505; Aug. 6.
Holdall, case, and bag, Portable. E. E. Langford and A. T. Garnett. 2,405,361; Aug. 6.
Holder: *See*—
Carbon arc electrode holder. Garment holder. Welding rod holder.
Electrode holder.
Holder for gauge lapping machines, Work. A. M. Drake. 2,405,346; Aug. 6.

Hydrocarbon conversion and apparatus. H. R. Markley. 2,405,364; Aug. 6.
Hydrocarbons, Desulphurizing. G. R. Lake. 2,405,258; Aug. 6.
Hydrocarbons, Isomerization of saturated. H. Pines. 2,405,516; Aug. 6.
Hydrocarbons, Isomerization of saturated. I. L. Wolk. 2,405,886; Aug. 6.
Hydrochloride compositions, Rubber. J. P. Chittum and G. E. Hulse. 2,405,343; Aug. 6.
Hydrolysate-neutralization process. P. D. V. Manning. 2,405,223; Aug. 6.
Hydroxylating pot type burner. B. Hayter. 2,405,212; Aug. 6.
Ice manufacture. A. D. Smith. 2,405,272; Aug. 6.
Ice manufacturing apparatus. A. D. Smith. 2,405,273; Aug. 6.
Illuminated sign. T. F. McFall. 2,405,266; Aug. 6.
Illuminating device. I. B. Polevitzky. 2,405,518; Aug. 6.
Implement, Cultivating. D. L. Hill. 2,405,503; Aug. 6.
Impregnating strip stock, Method and apparatus for. C. A. Mann. 2,405,221; Aug. 6.
Indicator: *See*—
Position indicator.
Injector, Fuel. B. G. Parsons. 2,405,163; Aug. 6.
Instrument, Stringed musical. J. W. McBride. 2,405,316; Aug. 6.
Insulating structure. W. D. Ryder. 2,405,330; Aug. 6.
Insulator. D. G. Blattner and F. W. Clayden. 2,405,180; Aug. 6.
Insulator, Electrical. W. W. Higgins. 2,405,425; Aug. 6.
Ions of alkyline earth metals, Treatment of water by suppressing the. A. G. Taylor. 2,405,276; Aug. 6.
Iron sludge, Method and apparatus for analyzing. S. I. Gale, J. M. Moran, and W. B. Heinz. 2,405,137; Aug. 6.
Ironing machine. K. Clark. 2,405,491; Aug. 6.
Isoparaffins, Alkylation of. J. A. Chenicek and R. B. Thompson. 2,405,490; Aug. 6.
Jet propulsion motor. M. Summerfield. 2,405,465; Aug. 6.
Joint: *See*—
Plank or board joint.
Vehicle wheel connecting joint.
Knitting method and apparatus. B. Nyhuis. 2,405,162; Aug. 6.
Ladder, Adjustable. A. L. Prutsman. 2,405,269; Aug. 6.
Lagging and making the same. A. Havel. 2,405,304; Aug. 6.
Laminated material and making. M. Skolnik. 2,405,527; Aug. 6.
Lamp apparatus and operation, Electric vapor. H. K. Bourne. 2,405,286; Aug. 6.
Landing system, Aircraft blind. R. C. Newhouse. 2,405,231; Aug. 6.
Latch structure, Locking. W. A. Shearer, R. D. Shephard, and E. R. Watkins. 2,405,240; Aug. 6.
Light concealer, Cigarette. M. La M. Green-ee. 2,405,506; Aug. 6.
Liquid delivery apparatus. F. Smith. 2,405,375; Aug. 6.
Liquid level switch. W. Grimm. 2,405,140; Aug. 6.
Load transference unit. J. H. Jacobson. 2,405,428; Aug. 6.
Loading machine. G. E. Coats. 2,405,114; Aug. 6.
Loading machine. O. G. Mandt. 2,405,312; Aug. 6.
Locomotive, Dual power thermal. W. Giger. 2,405,352; Aug. 6.
Longitudinal element in a tube, Thickening a localized. S. and A. Westin. 2,405,478; Aug. 6.
Machine for making sun screens. W. B. Ewing. 2,405,197; Aug. 6.
Machine tool. O. and H. O. Kylin and M. L. Valentino. 2,405,435; Aug. 6.
Machine tool. C. H. Schurr. 2,405,522; Aug. 6.
Machine tool. L. I. Yeomans and De W. Clausen. 2,405,387; Aug. 6.
Magazine, Film. P. W. Duke. 2,405,195; Aug. 6.
Magnet, Permanent. J. D. Seaver. 2,405,455; Aug. 6.
Mechanical energy, Translating. R. D. Brown, Jr. 2,405,109; Aug. 6.
Mechanical movement. E. H. Korte. 2,405,360; Aug. 6.
Mechanism for ring doubling and like frames, Feeding. A. Davenport. 2,405,410; Aug. 6.
Metal retorts, Operating. W. M. Peirce. 2,405,445; Aug. 6.
Microanalyzer monitoring, Electronic. J. Hillier and R. F. Baker. 2,405,306; Aug. 6.
Mixing method. R. L. Brandt. 2,405,487; Aug. 6.
Mold core. R. K. Hopkins. 2,405,254; Aug. 6.
Molecular weight lignin degradation products, Making low. J. R. Salvesen, R. L. Hossfeld, and R. J. Lovin. 2,405,450; Aug. 6.
Molecular weight ligain degradation products, Producing low. J. R. Salvesen, R. L. Hossfeld, and R. J. Lovin. 2,405,451; Aug. 6.
Mount, Picture. C. N. Cross. 2,405,409; Aug. 6.
Motor: *See*—
Jet propulsion motor.
Multiple contact countercurrent extractor. C. E. Mensing. 2,405,158; Aug. 6.
Needle, Phonograph. W. H. Hutter. 2,405,307; Aug. 6.
Nonbenzenoid compounds. L. W. Butz. 2,405,540; Aug. 6.
Notice impelling device. R. Misteli. 2,405,320; Aug. 6.
Object locater. E. W. Bemis. 2,405,281; Aug. 6.
Oil burner. D. C. Elliot and O. H. Paul. 2,405,196; Aug. 6.
Oil burner. L. F. Speare. 2,405,243; Aug. 6.
Oil seal construction. J. H. Victor. 2,405,279; Aug. 6.
Olefins, Isomerization of. N. H. Marsh. 2,405,440; Aug. 6.
Open-faced air, Filter frame. V. Dahlman. 2,405,293; Aug. 6.
Optical system. D. S. Grey. 2,405,301; Aug. 6.
Oscillator, Impulse. E. Labin. 2,405,217; Aug. 6.
Oscillator, Ultra high frequency. A. E. Anderson and A. L. Samuel. 2,405,175; Aug. 6.
Oscillatory system and apparatus, Electrical. W. P. Mueller and N. L. Kiser. 2,405,229; Aug. 6.
Packing for cylindrical parts. W. Kilchenmann. 2,405,152; Aug. 6.
Pallet, Adjustable. Le R. Weiss. 2,405,535; Aug. 6.
Parachute, Two-speed. H. W. Sheridan. 2,405,333; Aug. 6.
Pencil machine. C. R. Nichols, Jr. 2,405,367; Aug. 6.
Perforating device. E. Kern. 2,405,150; Aug. 6.
Photographic compositions and elements, Light sensitive. V. B. Sease and D. W. Woodward. 2,405,523; Aug. 6.
Photographic developing tank. J. F. Morse. 2,405,160; Aug. 6.
Photographic developing tank. R. H. Peckham. 2,405,233; Aug. 6.
Picker mechanism and machines, especially knitting machines, incorporating such mechanism. B. T. Cole. 2,405,405; Aug. 6.
Picker's apparatus, Fruit. J. O. Savage. 2,405,453; Aug. 6.
Pickling apparatus. S. H. McKee. 2,405,157; Aug. 6.
Piers, Constructing. C. P. Disney. 2,405,295; Aug. 6.
Pin: *See*—
Releasable pin.
Piston ring spacer. T. E. McFall. 2,405,318; Aug. 6.
Plank or board joint. F. J. Tirrel. 2,405,469; Aug. 6.
Polisher, Bowling ball. L. Cloutier. 2,405,344; Aug. 6.
Poly chloroprene composition. G. von Stroh. 2,405,336; Aug. 6.
Polyene compounds, Conjugated fatty. A. Turk and P. D. Boone. 2,405,380; Aug. 6.
Polymerization process. H. D. Wilde. 2,405,480; Aug. 6.
Position determining system. S. W. Seeley. 2,405,238–9; Aug. 6.
Position indicator. R. G. Jewell. 2,405,429; Aug. 6.
Power chain saw frame and joining block therefor. A. B. Myers. 2,405,365; Aug. 6.
Press: *See*—
Punch press.
Pressure switch. R. G. Holt. 2,405,142; Aug. 6.
Printing apparatus, Telegraphic. C. J. Fitch. 2,405,297; Aug. 6.
Printing plate, Photogravure. W. G. Mullen. 2,405,513; Aug. 6.
Printing screen. L. B. Corbett. 2,405,291; Aug. 6.
Projectile, Rocket. C. L. Eksergian. 2,405,415; Aug. 6.
Projector for page printers. W. J. Zenner. 2,405,173; Aug. 6.
Projector or hydrophone, Low frequency. W. P. Mason. 2,405,226; Aug. 6.
Projectors for page printers. R. G. Schuler. 2,405,168; Aug. 6.
Propeller, Controllable pitch. W. J. Blanchard, C. S. J. MacNeil, J. F. Haines, and T. B. Martin. 2,405,285; Aug. 6.
Propeller shaft housings, Method and apparatus for repairing. T. C. Gerner. 2,405,541; Aug. 6.
Propeller, Variable pitch. E. A. Briner. 2,405,488; Aug. 6.
Protector: *See*—
Tree protector.
Punch press. H. B. Werner and J. Verson. 2,405,537; Aug. 6.
Pump: *See*—
Fluid pump. Gas pump.
Radio range orientator. J. Dean. 2,405,493; Aug. 6.
Radio transmission, Microwave. G. C. Southworth. 2,405,242; Aug. 6.
Radiographic filter. S., M. H., and J. E. Moreau. 2,405,444; Aug. 6.
Railroad journal box. R. J. Brittain, Jr. 2,405,132; Aug. 6.
Railway frog. J. E. Conley. 2,405,407; Aug. 6.
Ranging device, Ultra-sonic. J. H. Bollman. 2,405,182; Aug. 6.
Ray-generating apparatus. W. F. Westendorp. 2,405,477; Aug. 6.
Razor, Safety. M. Feldman. 2,405,200; Aug. 6.
Reducing device, Control-force. T. A. Harris. 2,405,208; Aug. 6.
Refrigerating apparatus. L. W. Atchison. 2,405,392; Aug. 6.
Refrigerating apparatus. E. S. Dybvig. 2,405,411; Aug. 6.
Refrigerating apparatus. I. S. Ritter. 2,405,448; Aug. 6.
Refrigeration. O. B. Sutton. 2,405,169; Aug. 6.
Reglet. J. J. Fry. 2,405,202; Aug. 6.

Regulator: *See*—
Cable tension regulator.
Carbon pile voltage regulator.
Relay. A. J. McMaster and L. Jacobson. 2,405,319; Aug. 6.
Releasable pin. J. P. Butterfield. 2,405,400; Aug. 6.
Resistance element, Electrical. P. Robinson and S. O. Dorst. 2,405,449; Aug. 6.
Resistor. G. W. Davis. 2,405,192; Aug. 6.
Riveter. B. J. Yanchenko. 2,405,172; Aug. 6.
Rod-coasting machine and method. G. Harrison. 2,405,355; Aug. 6.
Roofing. E. T. Parsons and H. W. Sawyer. 2,405,325; Aug. 6.
Rubber article and apparatus for producing same, Hollow. D. C. Kempthorn. 2,405,149; Aug. 6.
Safety clip. R. E. Barber. 2,405,176; Aug. 6.
Safety key cabinet. C. I. Poulsen and H. F. Rose. 2,405,369; Aug. 6.
Sampling machine. P. J. Bauer. 2,405,486; Aug. 6.
Sanding machine. J. Robinson, Jr. 2,405,328; Aug. 6.
Scale, Over and under. A. Goodman. 2,405,497; Aug. 6.
Screen: *See*—
Printing screen.
Screw driver. S. Bloomfield. 2,405,130; Aug. 6.
Seal. J. E. Storer, Jr. 2,405,464; Aug. 6.
Seal, Door. G. A. Smith. 2,405,460; Aug. 6.
Seal, Oven door. J. F. Hennessy and J. I. Thulander. 2,405,305; Aug. 6.
Sealing means, Electrode. D. A. Rhoades and G. B. Scheer. 2,405,236; Aug. 6.
Secret signaling. G. Guanella. 2,405,500; Aug. 6.
Serving system, Drive-in. A. W. Delucchi. 2,405,294; Aug. 6.
Shaft bearing. D. Firth. 2,405,122; Aug. 6.
Shaped articles, Forming. M. Skolnik. 2,405,528; Aug. 6.
Sheet attaching mechanism. W. W. Guyon. 2,405,420; Aug. 6.
Sheet, Message. W. P. Rend. 2,405,327; Aug. 6.
Sheets, Attaching a plurality of. W. W. Guyon. 2,405,421; Aug. 6.
Shock absorber, Hydraulic. F. R. Harris. 2,405,502; Aug. 6.
Shoe construction, Novel. M. Margolin. 2,405,224; Aug. 6.
Shoe sole. J. Gregg. 2,405,498; Aug. 6.
Shore. A. Negovan, E. R. Stratton, and W. C. Roggie. 2,405,321; Aug. 6.
Sign: *See*—
Illuminated sign.
Signal correction circuit. A. V. Bedford and K. R. Wendt. 2,405,280; Aug. 6.
Signal device, Submarine. W. R. Harry. 2,405,209; Aug. 6.
Signal device, Submarine. A. H. Inglis. 2,405,210; Aug. 6.
Signal system, Submarine. W. P. Mason. 2,405,225; Aug. 6.
Signaling system. W. S. Halstead and B. C. Lord. 2,405,501; Aug. 6.
Silencer for drains. H. J. Smith. 2,405,241; Aug. 6.
Sinker head. S. Gagas. 2,405,351; Aug. 6.
Slicing apparatus. J. E. Wingate. 2,405,385; Aug. 6.
Slider for separable fasteners. D. Marinsky. 2,405,509; Aug. 6.
Soldering machine. G. H. Bierman. 2,405,178; Aug. 6.
Sole, Platform. F. S. Mees. 2,405,443; Aug. 6.
Solenoid operator. W. B. Ray. 2,405,370; Aug. 6.
Sound recording system. E. F. Watson. 2,405,246; Aug. 6.
Spring construction. L. B. Jahn. 2,405,356; Aug. 6.
Stator, Turbine. V. H. Pavlecka. 2,405,164; Aug. 6.
Stencil, Electrolytic. A. R. Lindsay. 2,405,508; Aug. 6.
Stock, Controlling advancement of. W. B. Ewing. 2,405,198; Aug. 6.
Stocking. A. A. Sanderson. 2,405,331; Aug. 6.
Stop for phonographs, Automatic. C. M. Sinnett. 2,405,526; Aug. 6.
Stop motion for warping or beaming plants, Electrically operated. F. Lambach and W. Siegel. 2,405,218; Aug. 6.
Storage arrangement. T. E. Foulkes. 2,405,416; Aug. 6.
Storm sash and screen, Convertible combination. H. O. Carroll. 2,405,112; Aug. 6.
Structure for cartridge belt links, Feed. P. O. Persson and C. W. Spohr. 2,405,447; Aug. 6.
Suction cleaner. C. G. Troxler. 2,405,170; Aug. 6.
Suede, Dyeing of. F. L. Pepper. 2,405,165; Aug. 6.
Sugar juice, Purification of. G. A. McBride. 2,405,315; Aug. 6.
Sunshade, Automobile. A. C. Engelheart. 2,405,348; Aug. 6.
Support for capacitors. E. D. A. Geoghegan. 2,405,139; Aug. 6.
Supporting device, Roll. L. Perrault. 2,405,446; Aug. 6.
Surface roughness, Measuring. W. J. Brown. 2,405,133; Aug. 6.
Surgical string material, Packing. G. Josh. 2,405,216; Aug. 6.
Switch: *See*—
Liquid level switch. Pressure switch.
Table: *See*—
Conveyer table.
Tank: *See*—
Photographic developing tank.
Teeth of gear shaving cutters and the like, Method and machine for finishing the. E. W. Miller. 2,405,159; Aug. 6.
Telephone diversion system, Toll. H. H. Schroeppel. 2,405,332; Aug. 6.
Telephone set. K. H. Blomberg. 2,405,543; Aug. 6.
Telephone system. J. W. Dehn and M. C. Goddard. 2,405,194; Aug. 6.
Telephone system. O. Myers. 2,405,230; Aug. 6.
Testing apparatus, Blood pressure. C. H. McAlpine. 2,405,265; Aug. 6.
Tetryl, Manufacture of. G. W. Batchelder. 2,405,340; Aug. 6.
Thermoplastic resinous compositions, Manufacture of expanded. A. Cooper and D. E. Partington. 2,405,345 Aug. 6.
3,6-epoxycyclohexene. W. Nudenberg. 2,405,267; Aug. 6.
Tool: *See*—
Machine tool.
Toy bomber airplane. P. J. Martin. 2,405,313; Aug. 6.
Toy gun. S. Binks. 2,405,341; Aug. 6.
Track structure for model railways. G. Varney. 2,405,533; Aug. 6.
Tractor drawn freight hauling car. C. Nicodemus. 2,405,161; Aug. 6.
Trailer. G. Godwin. 2,405,299; Aug. 6.
Transducer, Piezoelectric. H. Benioff. 2,405,187; Aug. 6.
Transfer apparatus, Fluid. W. T. Tabb. 2,405,466; Aug. 6.
Transformer, Impedance matching. L. M. Leeds. 2,405,437; Aug. 6.
Transmission. O. K. Butzbach. 2,405,135; Aug. 6.
Transmission coupling circuit. R. W. Masters. 2,405,314; Aug. 6.
Transmitter and receiver, Sound. H. Benioff. 2,405,185; Aug. 6.
Tree protector. John O. Savage. 2,405,452; Aug. 6.
Truck, Car. T. V. Buckwalter. 2,405,398; Aug. 6.
Truck, Hand. W. M. MacLaury. 2,405,155; Aug. 6.
Tuning apparatus. E. O. Thompson. 2,405,277; Aug. 6.
Turbine, Fluid. L. A. Darling. 2,405,190; Aug. 6.
Turbomachine. W. Huber. 2,405,146; Aug. 6.
Twist drill. J. Fleischer. 2,405,298; Aug. 6.
Two-stroke engine. E. M. Gadoux and J. Fouré. 2,405,350; Aug. 6.
Underlay for floor coverings. B. M. Randall. 2,405,235; Aug. 6.
Vacuum cleaning system. W. E. Bible. 2,405,129; Aug. 6.
Valve: *See*—
Explosive operated valve.
Valve. J. H. Beach. 2,405,127; Aug. 6.
Vehicle: *See*—
Double deck vehicle.
Vehicle suspension control mechanism. A. M. Wolf. 2,405,250; Aug. 6.
Vehicle wheel connecting joint. F. W. Slack and C. C. Utz. 2,405,458; Aug. 6.
Venetian blind. K. R. Horton. 2,405,255; Aug. 6.
Vibrator, Piezoelectric. H. Benioff. 2,405,186; Aug. 6.
Vise, Pipe. H. G. Butt. 2,405,288; Aug. 6.
Wagon, Bale loading and unloading. A. Voth. 2,405,534; Aug. 6.
Wagon body, Metal. W. D. Johnson. 2,405,358; Aug. 6.
Wall, Retaining. L. Cardwell. 2,405,289; Aug. 6.
Water treatment device. F. W. Whitlock. 2,405,479; Aug. 6.
Waxing machine, Bag. E. F. Anderson. 2,405,391; Aug. 6.
Web of stretchable material and bag made therefrom. W. W. Rowe. 2,405,521; Aug. 6.
Welding apparatus, Electric. D. C. Maytag. 2,405,510; Aug. 6.
Welding, Fusion. F. A. Wassell. 2,405,542; Aug. 6.
Welding rod holder. G. A. Combridge. 2,405,406; Aug. 6.
Welding, Stud. J. C. Beckett. 2,405,177; Aug. 6.
Wells, System and apparatus for flowing. J. D. Nixon. 2,405,323–4; Aug. 6.
Wheel structure. G. A. Lyon. 2,405,389–90; Aug. 6.
Winding for electric apparatus and making same, Coil. A. T. Sinks. 2,405,457; Aug. 6.
Winding machine. W. V. Jacobson. 2,405,215; Aug. 6.
Window, Storm. A. N. Weller. 2,405,248; Aug. 6.
Wrench. C. B. Stair. 2,405,462; Aug. 6.
Writing instrument. G. H. van Spankeren. 2,405,881; Aug. 6.
Xylenes, Recovery of. R. B. Greenburg. 2,405,300; Aug. 6.
Zinc borate, Manufacture of. A. J. Myhren and E. W. Nelson. 2,405,366; Aug. 6.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 6, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1—	3: 2,405,420	61—	52: 2,405,295	99—	71: 2,405,487	170—	159: 2,405,285	202—	42: 2,405,258	252—	3: 2,405,438
	2,405,421	62—	6: 2,405,169	101—128.2:	2,405,508		163: 2,405,488		2,405,300		6.5: 2,405,538
2—	70: 2,405,368		7: 2,405,448		228: 2,405,373	171—	327: 2,405,181		234: 2,405,118		298: 2,405,206
	209: 2,405,326		89: 2,405,392	102—	49: 2,405,415	172—	282: 2,405,228	206—	1: 2,405,369		361: 2,405,138
5—	262: 2,405,296		2,405,432	103—	2: 2,405,163	173—	269: 2,405,111		7: 2,405,124	253—	77: 2,405,146
8—	13: 2,405,165		106: 2,405,273		150: 2,405,466		328: 2,405,180		56: 2,405,107		78: 2,405,164
	70: 2,405,151		129: 2,405,411		200: 2,405,322	174—	178: 2,405,425		58: 2,405,459	254—	187: 2,405,156
9—	17: 2,405,484		172: 2,405,272		233: 2,405,323	175—	41: 2,405,529	209—	111: 2,405,483	257—	245: 2,405,256
10—	107: 2,405,141	63—	14: 2,405,525		240: 2,405,324		341: 2,405,370	210—	8.5: 2,405,456	259—	60: 2,405,442
13—	16: 2,405,403	64—	3: 2,405,541	105—	96.1: 2,405,193		2,405,396		23: 2,405,276	260—	41: 2,405,336
	17: 2,405,236	66—	41: 2,405,162		193: 2,405,398		358: 2,405,457		24: 2,405,479		124: 2,405,450
15—	130: 2,405,154		48: 2,405,405		223: 2,405,132	176—	16: 2,405,261	214—	29: 2,405,342		2,405,451
18—	5: 2,405,245		110: 2,405,351		226: 2,405,117		122: 2,405,518		65.4: 2,405,155		125: 2,405,482
	47.5: 2,405,480		187: 2,405,331		340: 2,405,136	177—	327: 2,405,429		83: 2,405,534		143: 2,405,353
	48: 2,405,345	68—	3: 2,405,167	108—	6: 2,405,325		352: 2,405,281		85: 2,405,299		344.6: 2,405,540
	58: 2,405,329		206: 2,405,520		26: 2,405,202		386: 2,405,134		111: 2,405,312		345: 2,405,267
19—	33: 2,405,401	70—	100: 2,405,240	112—	77: 2,405,253		2,405,179		141: 2,405,114		405.6: 2,405,380
20—	69: 2,405,305	72—	1: 2,405,116	113—	60: 2,405,178		2,405,182	217—	18: 2,405,463		529: 2,405,223
	2,405,460		64: 2,405,335	114—	43.5: 2,405,115		2,405,185	219—	3: 2,405,478		546: 2,405,470
22—	57.2: 2,405,355		111: 2,405,274		45: 2,405,502		2,405,186		4: 2,405,177		2,405,471
	170: 2,405,254	73—	66: 2,405,430	117—	93: 2,405,222		2,405,187		5: 2,405,510		577: 2,405,340
23—	50: 2,405,302		2,405,474		2,405,249		2,405,209		8: 2,405,406		649: 2,405,183
	59: 2,405,366		86: 2,405,532		114: 2,405,220		2,405,210		2,405,536		668: 2,405,184
	141: 2,405,275		105: 2,405,133		2,405,221		2,405,225		10: 2,405,542		669: 2,405,436
	143: 2,405,426		318: 2,405,247	120—	42: 2,405,381		2,405,226		25: 2,405,270		679: 2,405,395
	230: 2,405,137		421: 2,405,486	121—	101: 2,405,359		2,405,472	222—	74: 2,405,264		681: 2,405,347
	270.5: 2,405,158	74—	1: 2,405,109	123—	65: 2,405,350	178—	4: 2,405,297		137: 2,405,507		683.2: 2,405,440
24—	11: 2,405,176		230.18: 2,405,304		142.5: 2,405,145		7.5: 2,405,290	224—	45: 2,405,517		683.4: 2,405,490
	77: 2,405,271		233: 2,405,496		171: 2,405,422		44: 2,405,174	226—	95: 2,405,232		683.5: 2,405,364
	170: 2,405,265		291: 2,405,338		173: 2,405,152		2,405,277		125: 2,405,481		2,405,386
	205: 2,405,509		424.5: 2,405,473	126—	110: 2,405,317		2,405,314	228—	63: 2,405,269		2,405,516
28—	51: 2,405,218		501: 2,405,377		2,405,427		2,405,437	229—	33: 2,405,499		771: 2,405,343
29—	148.2: 2,405,201		573: 2,405,404	127—	48: 2,405,315		2,405,515		52: 2,405,310	261—	116: 2,405,375
30—	51: 2,405,200	75—	44: 2,405,278	128—	335.5: 2,405,216	179—	1.5: 2,405,252		55: 2,405,521	263—	51: 2,405,363
	117: 2,405,311		67: 2,405,445	131—	52: 2,405,388		2,405,280		92.1: 2,405,327	264—	6: 2,405,382
33—	1: 2,405,227		125: 2,405,455		174: 2,405,506		2,405,500	230—	47: 2,405,282	265—	54: 2,405,497
	2,405,493		157.5: 2,405,531	132—	15: 2,405,372		2: 2,405,501		114: 2,405,413	266—	41: 2,405,461
	49: 2,405,383	76—	46: 2,405,365		31: 2,405,166		18: 2,405,194		130: 2,405,284	267—	1: 2,405,356
	56: 2,405,512		108: 2,405,298		33: 2,405,431		2,405,214		134: 2,405,283	272—	21: 2,405,320
35—	25: 2,405,308		114: 2,405,462	135—	5: 2,405,539		27: 2,405,230		190: 2,405,475		33: 2,405,495
	46: 2,405,418	77—	4: 2,405,387	136—	6: 2,405,349		2,405,332	234—	1.5: 2,405,397		50: 2,405,108
36—	30: 2,405,224		7: 2,405,110	137—	21: 2,405,126		90: 2,405,211	235—	60: 2,405,268	273—	25: 2,405,492
	2,405,443	78—	48: 2,405,172		139: 2,405,127		100.11: 2,405,526		61: 2,405,113	274—	38: 2,405,307
	32: 2,405,498	81—	21: 2,405,288		2,405,439		100.3: 2,405,246		61.6: 2,405,287	280—	33.2: 2,405,161
37—	184: 2,405,131	82—	22: 2,405,435	140—	112: 2,405,257		103: 2,405,543		92: 2,405,121		96.2: 2,405,458
40—	32: 2,405,376	84—	315: 2,405,316	144—	3: 2,405,367		107: 2,405,433	237—	1: 2,405,144		153: 2,405,262
	130: 2,405,266	85—	1: 2,405,412	145—	50: 2,405,130		175.2: 2,405,339	238—	10: 2,405,533	281—	42: 2,405,374
	152: 2,405,409		5: 2,405,400	146—	10: 2,405,303	180—	90: 2,405,143		349: Re.22,776	282—	25: 2,405,511
46—	1: 2,405,360	88—	2.4: 2,405,263		32: 2,405,292	182—	27: 2,405,241	240—	6.4: 2,405,384	285—	90: 2,405,170
	77: 2,405,313		24: 2,405,168		147: 2,405,385	183—	10: 2,405,494		45: 2,405,286		122: 2,405,489
	117: 2,405,149		2,405,173	150—	35: 2,405,379		56: 2,405,129	242—	11: 2,405,446	286—	1: 2,405,120
	192: 2,405,341		57: 2,405,301	151—	21: 2,405,402		71: 2,405,293		32: 2,405,215		7: 2,405,464
47—	21: 2,405,452		74: 2,405,441		29: 2,405,424	186—	1: 2,405,294	244—	17: 2,405,188	287—	91: 2,405,476
49—	2: 2,405,504		108: 2,405,444	153—	28: 2,405,128	187—	10: 2,405,505		2,405,244		100: 2,405,148
50—	26: 2,405,371	89—	1.7: 2,405,414		80: 2,405,399	188—	72: 2,405,219		90: 2,405,208	288—	3: 2,405,279
51—	34: 2,405,467		33: 2,405,207	154—	28: 2,405,527		88: 2,405,250		134: 2,405,362	290—	3: 2,405,352
	56: 2,405,344	90—	7: 2,405,337		44: 2,405,330		153: 2,405,119		151: 2,405,333	292—	256: 2,405,251
	78: 2,405,328		8: 2,405,159		2,405,423	190—	43: 2,405,361	246—	471: 2,405,407	296—	28: 2,405,260
	105: 2,405,468		11.52: 2,405,485		45.9: 2,405,235	192—	67: 2,405,171	248—	120: 2,405,535		2,405,358
	145: 2,405,417		11.02: 2,405,522		110: 2,405,528		68: 2,405,357		311: 2,405,139		44: 2,405,394
	163: 2,405,157		33: 2,405,434	158—	4: 2,405,234	196—	52: 2,405,408		354: 2,405,321		137: 2,405,348
	193: 2,405,524	91—	40: 2,405,391		28: 2,405,243		72: 2,405,393	250—	1: 2,405,238	299—	67: 2,405,147
	217: 2,405,346	92—	6: 2,405,213		76: 2,405,196	198—	30: 2,405,447		2,405,239	301—	37: 2,405,389
	298: 2,405,191	94—	17: 2,405,428		91: 2,405,212		140: 2,405,378		11: 2,405,203		2,405,390
52—	4: 2,405,189	95—	7: 2,405,523	160—	173: 2,405,255		195: 2,405,530		2,405,231	304—	9: 2,405,259
55—	108: 2,405,205		8: 2,405,513		176: 2,405,153	200—	82: 2,405,454		2,405,242		2,405,453
57—	90: 2,405,410		19: 2,405,195		182: 2,405,112		83: 2,405,142		17: 2,405,217		40: 2,405,469
60—	13: 2,405,309		81: 2,405,291		349: 2,405,354		84: 2,405,140		27: 2,405,237	308—	187.1: 2,405,122
	35.8: 2,405,455		90: 2,405,160	164—	6.5: 2,405,197		87: 2,405,319		33: 2,405,123	309—	45: 2,405,318
	42: 2,405,190		96: 2,405,233		2,405,198	201—	48: 2,405,199		36: 2,405,229	312—	2: 2,405,491
	54: 2,405,135	97—	50: 2,405,334		68: 2,405,204		51: 2,405,514		40: 2,405,419		107: 2,405,416
	54.5: 2,405,537		60: 2,405,503		91: 2,405,150		63: 2,405,192		49.5: 2,405,306	315—	5: 2,405,175
61—	39: 2,405,289	98—	96: 2,405,248	169—	28: 2,405,125		75: 2,405,449		99: 2,405,477		2,405,519

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,405,129:	183— 56	2,405,296:	240— 45	2,405,368:	2— 70	2,405,425:	174—178	2,405,463:	217— 18	Des. 145,350:	D42—7
2,405,175:	315— 5	2,405,310:	229— 52	2,405,369:	206— 1	2,405,426:	23—143	2,405,485:	90—11.52		
2,405,190:	60— 42	2,405,312:	214—111	2,405,372:	132— 15	2,405,429:	177—327	2,405,499:	229— 33		
2,405,221:	117—114	2,405,317:	126—110	2,405,387:	77— 4	2,405,444:	88—108	2,405,507:	222—137		
2,405,259:	304— 9	2,405,318:	309— 45	2,405,392:	62— 89	2,405,445:	75— 67	2,405,515:	178— 44		
2,405,267:	260—345	2,405,355:	296— 28	2,405,414:	89—1.7	2,405,455:	75—125	2,405,531:	75—157.5		

CLASSIFICATION OF DESIGNS

D 3— 4: Des. 145,368	D 3— 4: Des. 145,373	D42— 7: Des. 145,350	D45— 4: Des. 145,355	D54—14: Des. 145,346	D92— 1: Des. 145,347
Des. 145,369	D10— 7: Des. 145,365	Des. 145,351	Des. 145,356	D61— 1: Des. 145,364	26: Des. 145,354
Des. 145,370	D29—20: Des. 145,358	Des. 145,352	Des. 145,357	D86—10: Des. 145,367	Des. 145,363
Des. 145,371	29: Des. 145,366	Des. 145,353	D48—24: Des. 145,361	D87— 3: Des. 145,359	
Des. 145,372	D34— 5: Des. 145,362	D44— 9: Des. 145,360	D54—12: Des. 145,349	D90—20: Des. 145,348	

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 589—No. 2 TUESDAY, AUGUST 13, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
ISSUE OF AUGUST 13, 1946	161
INTERFERENCE NOTICES	161
NOTICES	161, 174
NOTICES OF CANCELLATION	161
APPLICATIONS UNDER EXAMINATION	162
DECISIONS OF THE U. S. COURTS—	
In re Brockway Glass Company, Inc.	163
In re Goldsby	165
In re Hansen	167
In re Wood et al	169
In re Paesani	172
In re Burhans	173
REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE	175
TRADE-MARKS PUBLISHED (222 APPLICATIONS)	177
TRADE-MARK REGISTRATIONS GRANTED	204
TRADE-MARK REGISTRATIONS RENEWED	216
REISSUES	219
PATENTS GRANTED	221
DESIGNS	316

August 13, 1946

Trade-Marks	180—	No. 422,727	to No. 422,906,	inclusive.
T. M. Renewals	89			
Reissues	4—	No. 22,777	to No. 22,780,	inclusive.
Patents	387—	No. 2,405,544	to No. 2,405,930,	inclusive.
Designs	40—	No. 145,374	to No. 145,413,	inclusive.
Total	691			

Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., July 15, 1946.*

James T. Hiroto, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Salinas Valley Vegetable Exchange, P. O. Box 247, Salinas, Calif., for registration of a trade-mark and trade-mark registered February 17, 1942, No. 393,497, to James T. Hiroto, P. O. Box 103, Coachella, Calif., and the Office having been unable to procure service of the notice of such declaration upon said Hiroto, notice is hereby given that unless said Hiroto, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice

United States Patent Office, Washington 25, D. C.

Under the act signed July 5, 1946, the price of copies of patents is increased from ten cents to twenty-five cents. The price of copies of trade-marks and designs remains at ten cents.

J. A. BREARLEY,
Chief Clerk.

July 11, 1946.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 28, 1946.*

The Knorr-Schlaudt Notion Co., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of Gallenkamp Stores Co., 422 Second St., San Francisco, Calif., to effect the cancellation of trade-mark registration of The Knorr-Schlaudt Notion Co., Hutchinson, Kans., No. 108,649, dated February 22, 1916, renewed by The Knorr-Schlaudt Wholesale Company, Inc. The Office having been unable to obtain service upon the respondent, notice is hereby given that unless The Knorr-Schlaudt Wholesale Company, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER.
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 19, 1946.*

Horace Kay, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Robert Barr, 438 Diversey Parkway, Chicago, Ill., to effect the cancellation of trade-mark registration of Horace Kay, 134 W. 90th Street, New York, N. Y., No. 327,275, dated August 20, 1935, and the notice of such proceeding sent by registered mail to the said Kay at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 30, 1946.*

Anthony F. McDonnell, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Brockway Glass Company, Inc., of Brockway, Pa., to effect the cancellation of trade-mark registration of Anthony F. McDonnell, 1341 Jefferson Avenue, Scranton, Pa., No. 77,405, dated April 5, 1910 (renewed), and the Patent Office having been advised that the said McDonnell is deceased, notice is hereby given that unless the heirs of McDonnell, his assigns or any person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 26, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 119,565; Trade-Mark Division, 9,604. Oldest new case, February 12, 1945; oldest amended, February 20, 1945.)

(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Apr. 19	May 30	2054
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	May 5	May 14	2542
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 19	1867
4. BISHOP, WALTER C., Conveyors: Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Aug. 1	July 30	2061
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Apr. 5	Apr. 9	3243
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 31	Oct. 1	1706
7. JARBOE, C. G., Optics, Photography	Oct. 1	Sept. 17	2067
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	July 2	July 9	2775
9. BENSON, E. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 12	Apr. 16	1955
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	June 26	June 20	1425
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 17	Dec. 14	614
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 19	June 13	2209
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 27	1870
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 7	Sept. 6	1298
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	July 3	Aug. 6	1343
16. LOVEWELL, N. N., Telegraphy; Telephony	Aug. 2	July 11	1220
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 17	Feb. 20	1115
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 28	June 22	1662
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 7	Sept. 7	1440
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1605
21. THOMPSON, T. J., Textiles	Oct. 31	Nov. 14	
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	June 27	June 29	1714
23. LEWIS, J. B., Cash Registers; Calculators (part)	May 28	June 16	259
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 23	Nov. 1	1087
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	June 12	July 23	1474
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 10	May 7	1853
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 17	Apr. 13	1898
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons.	May 11	May 3	1318
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	May 19	May 19	1993
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	June 4	June 20	2107
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 15	Jan. 8	957
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 7	Aug. 21	1697
33. ROE, W. E. (Acting), Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	June 2	June 4	2455
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	July 25	1114
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	Aug. 10	Aug. 8	1660
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 28	May 30	1373
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 13	May 3	1376
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	July 9	July 3	1207
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 16	Apr. 23	2183
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 10	Sept. 1	2167
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Apr. 9	Apr. 27	824
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Sept. 14	Aug. 27	952
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Finid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 21	May 16	1313
44. HARVEY, L. P., Refrigeration; Preserving	Mar. 27	May 2	1107
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	July 5	July 9	2170
46. ISAACS, J., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	July 11	Aug. 9	1247
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Sept. 15	Sept. 4	2329
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 24	Mar. 27	1834
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 28	July 30	1415
50. LEVIN, SAMUEL, Synthetic Resins	July 21	July 21	2247
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	May 14	May 21	2169
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	May 14	June 6	2839
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	Apr. 10	May 4	2823
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	May 9	May 14	2026
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 7	July 13	1567
56. COOKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	May 29	June 13	1535
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 12	Apr. 15	2512
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Aug. 20	Nov. 10	1119
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	May 5	May 2	2031
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover-Dynamo Plants.	May 7	July 11	1846
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 28	June 5	2271
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 19	Mar. 25	3115
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 26	Apr. 25	1997
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 20	Dec. 20	1174
65. McDERMOTT, F. E., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 7	May 10	2271
TRADE-MARKS: RICHMOND, F. A.	Dec. 1	†Apr. 2	9604
DESIGNS: KALUPY, H. H.	Nov. 6	†Apr. 12	6121

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE BROCKWAY GLASS COMPANY, INC.

No. 5,090. Decided April 1, 1946

[154 F.(2d) 673; 69 USPQ 324]

1. APPEAL—RECORD.

Where appellant assertedly raised, in its brief before the Commissioner, a contention as to the effect the action of the Examiner in allowing a certain registration should have on its case, but included neither that brief nor that registration in the record, *Held* that appellant was in no position to have the registration considered by the court.

2. TRADE-MARKS—REGISTRABILITY—OTHER REGISTRATIONS AS PRECEDENTS.

Where appellant had been denied registration of the notation "Sani-Glas" in view of a prior registration of the trade-mark "Sanitop" for identical goods, and in its reasons of appeal alleged error on the part of the Commissioner in failing to discuss an alleged registration of the word "Sanijar," *Held* that "even if it be assumed that there was such a registration it could have no controlling influence in this case," and that "if a mistake was made in granting that registration * * * it would furnish no precedent justifying another improper registration."

3. SAME—ABANDONMENT.

Where a bottle supplied by the registrant did not have the trade-mark blown into the glass in the manner recited in his registration, and the registrant, in an accompanying letter, stated that he had not sold any bottles for a long period of years, *Held* that the registered mark was not abandoned.

4. SAME—SAME—APPLICATION FOR CANCELLATION.

Held that if appellant believed that the registered mark had been abandoned and that it would be injured by the registration remaining uncancelled, it should, as a matter of orderly procedure, have brought an action for cancellation under section 13 of the trade-mark registration act (15 U. S. C. § 93) in which the registrant would have had an opportunity to be heard.

5. SAME—SAME—EX PARTE DETERMINATION.

"Whether a question of abandonment properly may be raised and determined in an ex parte proceeding need not be passed upon here, because, upon the facts recited, it is clear that it should not be held that the registration involved had been abandoned."

APPEAL from the Patent Office. Affirmed.

BLAND, *J.*, and O'CONNELL, *J.*, specially concurring.

Messrs. Bean, Brooks, Buckley and *Bean* (*Mr. Edwin T. Bean, Mr. Conrad Christel*, and *Mr. Raymond W. Colton* of counsel) for Brockway Glass Company, Inc.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

Appellant seeks reversal of the decision of the Commissioner of Patents (speaking through the First Assistant Commissioner), 62 USPQ 53, affirming the action of the Examiner of Trade-Marks denying appellant's application filed April 18, 1941, for the registration of the notation "Sani-Glas" as a trade-mark for glass bottles (the suffix "Glas," being disclaimed "apart from the mark") on the ground that it is confusingly similar to a prior registration (No. 77,405) of the notation "Sanitop" as a trade-mark for use on identical goods—glass bottles.

The registration dated April 5, 1910, is in the name of Anthony F. McDonnell. It shows, in the usual manner, that it was renewed, the date of renewal, however, not being stated.

During the prosecution of the involved application in the Patent Office appellant presented certain papers upon which it based a claim that the reference mark should be considered to have been abandoned but no cancellation proceeding was instituted. An issue concerning that claim is raised before us in the reasons of appeal and is hereinafter discussed.

It is deemed proper to consider first the question of whether appellant's mark "Sani-Glas" so nearly resembles the registered mark "Sanitop" that the application of "Sani-Glas" to glass bottles would be "likely to cause confusion or mistake in the mind of the public or to deceive purchasers."

In our view that question requires but little discussion.

The brief of the Solicitor for the Patent Office sets forth a long list of decisions in which compound marks having one or more syllables in common were held to be confusingly similar even though in some cases there was a wide difference in the remaining portions. This principle is so well established that we need not repeat the solicitor's citations.

The Commissioner cited as parallel the comparatively recent case of *The Hygienic Products Company* v. *Huntington Laboratories, Inc.*, 31 C. C. P. A. (Patents) 773, 139 F.(2d) 508, 60 USPQ 205, 559 O. G. 709, an opposition proceeding in which this court held "Toilet-San" ("Toilet" being disclaimed) and "Sani-Flush" both applied to goods used for identical purposes, to be confusingly similar, and commented as follows:

So here, and for the same reason, applicant's mark is dominated by the word "Sani," and so here, applicant's mark and the mark of the reference are appropriated to identical merchandise. And in my opinion there is greater resemblance between "Sani-Glas" and "Sanitop" than there is between "Toilet-San" and "Sani-Flush."

It is asserted in the brief for appellant that "The use of the letters 'sani' is within the public domain." Should that view be accepted, it is clear that appellant would have nothing registrable, because the suffix "Glas" of its mark is descriptive and, for that reason, was disclaimed upon the suggestion of the Examiner. The Commissioner aptly said:

* * * the word "glas" in applicant's mark is purely descriptive, and has been disclaimed for that reason; so that unless the prefix "sani" be regarded as arbitrary, the mark as a whole is nonregistrable under act of 1905.

[1][2] In its reasons of appeal appellant alleged error on the part of the Commissioner in failing to discuss an alleged registration of the word "Sanijar," and the contention of appellant asserted to have been raised in its brief and argument before the Commissioner as to the effect the action of the

Examiner in allowing it should have on the instant case.

Neither the brief before the Commissioner nor the alleged registration is included in the record before us. So, obviously, appellant is in no position to have it considered by us, but it is not improper to say that even if it be assumed that there was such a registration it could have no controlling influence in this case. If a mistake was made in granting that registration (and we express no view as to that) it would furnish no precedent justifying another improper registration. See *The Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. (Patents) 1224, 83 F.(2d) 906, 29 USPQ 601, 472 O. G. 258, and cases therein cited.

[3] With respect to the question of abandonment hereinbefore referred to appellant, as has been stated, did not institute any cancellation proceeding in conformity with the statute, but contented itself with the presentation of certain papers upon the basis of which, it contended, the registered mark "Sanitop" should have been treated as having been abandoned.

Briefly, it appears that after the Examiner's first rejection of appellant's application based upon the "Sanitop" registration an attorney (whose affidavit stating that he is associated with the firm of attorneys representing appellant is in the record) wrote McDonnell. The letter said to have been so written is not in the record but the affidavit states that it asked "for quotations of prices, descriptive literature and a sample of a 'Sanitop' bottle." It does not appear that any reference was therein made to the trade-mark registration.

There was filed with the affidavit a paper which affiant stated was a copy of a letter he received in reply. In the letter McDonnell stated, in substance, that he was sending the sample requested and that he also had a patented bottle and offered to send a sample of that if desired. The letter further stated:

> I have not sold any bottles since the early twenties and therefore do not know the price of bottles today but the price of these Sanitop bottles should not be any more than the price of ordinary crown finish bottles, plus the cost of royalty: twenty cents a gross. It being understood, of course, that no manufacturer can make these bottles without a license to make same.

The affidavit stated that the word "Sanitop" did not appear blown in the bottle which affiant received but that it was on a typewritten gummed label attached thereto.

It is noted that the certificate of registration states that the mark is applied "to the goods, and to the packages containing the same, by being blown into the glass, and on printed labels bearing the trade-mark, said labels being pasted on cartons and other containers containing the bottles."

Based upon (a) the statement in the affidavit that the bottle which affiant received did not have the mark blown into the glass and (b) the statement in McDonnell's letter that he had not sold any bottles since the early twenties, appellant insists that the mark should be held to have been abandoned.

We think the tribunals of the Patent Office properly declined to so hold.

[4] If appellant believed that the McDonnell mark had been abandoned and that it would be injured by the registration remaining uncancelled it should, as a matter of orderly procedure, have brought an action for cancellation under section 13 of the trade-mark registration act (15 U. S. C. § 93) in which McDonnell would have had an opportunity to be heard. See *In re Fred Wilcox & Co.*, 36 App. D. C. 107, 1911 C. D. 264, 162 O. G. 539.

There is nothing in the affidavit to indicate that the letter written to McDonnell gave him the slightest intimation that appellant believed or had any reason to believe that he had abandoned the mark and there is nothing in McDonnell's reply to indicate that he had abandoned it, or any of his rights under his registration.

[5] Whether a question of abandonment properly may be raised and determined in an ex parte proceeding need not be passed upon here, because, upon the facts recited, it is clear that it should not be held that the registration involved had been abandoned.

The decision of the Commisssioner is affirmed.

Affirmed.

BLAND, *J.*, (specially concurring):

I concur in the decision of the majority except that portion of it which relates to the question of abandonment of the mark, "Sanitop." I agree with the majority that appellant's showing that the mark had been abandoned was properly rejected by the Patent Office, but we should at least state the reasons why the Patent Office rejected the proof. The applicant, in his reasons of appeal to the Commissioner, urged that his showing of "long non-use of the trade-mark 'Sanitop'" should have been regarded as sufficient evidence of abandonment. The Examiner had pointed out to the applicant that his proof did not show abandonment since use by an assignee or licensee is not negatived and no intent to abandon is shown.

The majority, on this phase of the case, state:

> With respect to the question of abandonment hereinafter referred to appellant, as has been stated, did not institute any cancellation proceeding *in conformity with the statute* but contented itself with the presentation of certain papers upon the basis of which, it contended, the registered mark "Sanitop" should have been treated as having been abandoned. [Italics supplied.]

Then, after discussing the affidavit, the majority state, "We think the tribunals of the Patent Office properly declined to so hold." With this latter statement I agree.

Then the following is said:

> If appellant believed that the McDonnell mark had been abandoned and that it would be injured by the registration remaining uncancelled it should, as a matter of orderly procedure, have brought an action for cancellation under section 13 of the trade-mark registration act (15 U. S. C. § 93) in which McDonnell would have had an opportunity to be heard. See *In re Fred Wilcox & Co.*, 36 App. D. C. 107, 1911 C. D. 264, 162 O. G. 539.

While I agree that appellant's showing was not sufficient to justify the Patent Office in acting as if the alleged abandoned mark had in fact been abandoned, I do not want to go on record as holding or intimating that cancellation is the only "orderly procedure" in this kind of case. The settled policy of the Patent Office on this question is disclosed in a letter by Leslie Frazer, First Assistant Commissioner, to Allen & Allen, Cincinnati, Ohio, dated January 21, 1946, which, probably under the authority of Trade-Mark Rule 88, points out that if

> "resort be had to cancellation, or were the old practice restored of declaring interferences in cases of this character, the Office would be unnecessarily burdened with some 180 more or less abortive inter partes proceedings each year, to its own detriment and to the detriment of those having legitimate business before it."

See *Allen Flour Co.* v. *Braun*, 1923 C. D. 113, 317 O. G. 241, holding what constituted a prima facie case of abandonment before the Examiner of Trade-Marks under the old practice when subsequently an interference was declared in order for the Patent Office to attempt to give proper notice. Under numerous later manuscript decisions the practice has been changed and conforms to that which is stated in the above-quoted letter.

It is the settled practice of the Patent Office, which I think is not in conflict with the law, that without requiring resort to cancellation or interference proceedings it may accept proper and convincing evidence submitted by the applicant for registration (or from other sources) and from it may determine that the mark has been abandoned and accordingly withdraw it as a citation against the applicant. Of course, the proof on this question of fact must be convincing and not be subject to such objections as were pointed out by the Patent Office to the proof of the applicant in the instant case, or possibly to the other objections pointed out in the decision by the majority.

Moreover, the Wilcox case above cited is not in point. It had to do with a determination of whether a mark was descriptive, which question of law, of course, could not be controlled by the opinion or oath of an interested applicant alone.

O'CONNELL, *J.*, joins in this concurring opinion.

U. S. Court of Customs and Patent Appeals

IN RE GOLDSBY

No. 5,118. Decided April 1, 1946

[154 F.(2d) 676; 69 USPQ 327]

APPLICATION—DISCLOSURE—CLAIMS COPIED FROM PATENT.

Certain claims in appellant's reissue application, copied literally from, or patterned after, claims of a patent granted to another *Held* not supported by the disclosure of that application.

APPEAL from the Patent Office. Affirmed.

Mr. R. J. Dearborn and *Mr. W. P. Epperson* (*Mr. Daniel Stryker* of counsel) for Goldsby.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting five claims, numbered 7 to 11, inclusive, embraced in appellant's application, Serial No. 464,351, for reissue of a patent, No. 2,271,860, relating to method of treating hydrocarbons, "particularly," as recited in the specification, "with the alkylation of paraffin hydrocarbons with olefins."

The several claims, six in number, embraced in the patent which was issued February 3, 1942, upon an application filed February 17, 1938, stand allowed in the reissue application, but those on appeal were rejected on the grounds, as epitomized in the brief of the Solicitor for the Patent Office, that (1) they are not supported by the disclosure of the reissue application and that (2) they are not for the same invention as the claims of the patent sought to be reissued.

It appears that appealed claims 7, 8, 9, and 10 were copied literally for interference purposes from a patent, No. 2,293,705, issued to one Herman S. Bloch, August 25, 1942, upon an application filed July 31, 1940, and that appealed claim 11, also presented for interference purposes, was "patterned after" claim 1 of the Bloch patent, being modified to omit certain features of the latter claim.

Claims 7, 10, and 11 read as follows:

> 7. A process for producing more valuable products from normal butane and olefins, which comprises subjecting said normal butane to a purifying treatment in the presence of concentrated sulfuric acid, separating the purified normal butane from the used sulfuric acid, subjecting the purified normal butane to catalytic isomerization to form isobutane, separating the isobutane from unconverted normal butane, and alkylating said isobutane with olefins in the presence of a catalyst comprising at least a portion of the used sulfuric acid.
>
> 10. A process for producing more valuable products from normal butane and olefins, which comprises subjecting said normal butane to a purifying treatment in the presence of concentrated sulfuric acid, separating the purified normal butane from the used sulfuric acid, subjecting the purified normal butane to catalytic isomerization to form isobutane, and alkylating the resultant isobutane with olefins in the presence of a catalyst comprising at least a portion of the used sulfuric acid.
>
> 11. A process for the production of a motor fuel of high anti-knock value which comprises subjecting a charging stock containing normal butane to the action of concentrated sulfuric acid, separating the acid and the treated normal butane, subjecting said normal butane to contact with aluminum chloride and hydrogen chloride to effect isomerization of a substantial portion of the normal butane to isobutane, separating the products from the isomerization step into residual gases, normal butane and isobutane, commingling said isobutane with olefin-containing charging stock and with isobutane recycle stock obtained from an alkylation reaction in a manner hereinafter described, subjecting said mixture to the action of used sulfuric acid from the normal butane treating operation under alkylating conditions to alkylate the isobutane with the olefin to form a hydrocarbon alkymer material suitable for use as a motor fuel, separating the acid and hydrocarbon products, fractionating said hydrocarbon products to separate excess isobutane, normal butane and alkymer, and recycling said isobutane to the alkylation reaction where it is commingled with the isobutane formed in the isomerization step and the olefin-containing charging stock as hereinbefore set forth.

The several appealed claims were analyzed in the statement of the Examiner as follows:

> Claim 10 is the broadest of the appealed claims. It calls for subjecting normal butane to a purifying treatment in the presence of concentrated sulfuric acid (zone 3 of Bloch), separating the purified normal butane from the used sulfuric acid (separator 5 and lines 8 and 6, respectively, of Bloch), subjecting the purified normal butane to catalytic isomerization to form isobutane (zone 10 of Bloch), and alkylating the resultant isobutane with olefins in the presence of a catalyst comprising at least a portion of the used sulfuric acid (zone 17, olefins through line 16 and acid through lines 6 and 7 of Bloch).
>
> Claim 8 is substantially for the same process as claim 10 with the additional step of separating unconverted normal butane after the isomerization and before the alkylation. The alkylation is said to be in the presence of the used sulfuric acid.
>
> Claim 9 is a duplicate of claim 8 plus the limitation that the alkylation is in the presence of the used sulfuric acid and additional fresh sulfuric acid.

Claim 7 is the same as claim 8 except that claim 7 states the alkylation catalyst as comprising at least a portion of the used sulfuric acid.

Claim 11 is more specific than claims 7 to 10. Claim 11 is specific to the isomerization catalyst, stating it to be aluminum chloride and hydrogen chloride. Claim 11 states that the isomerization products are separated into residual gases, normal butane and isobutane and that said isobutane together with isobutane recycled from the alkylation is subjected to the alkylation. According to this claim, the alkylation products are separated into acid and hydrocarbons, the latter are fractionated to separate excess isobutane, normal butane and alkymer, and the isobutane is recycled to the alkylation.

While the case involves subject matter of a technical nature and is somewhat complicated, nevertheless, after a careful study of the various elements involved, the issues seem clear and not difficult of determination.

Appellant's application embraces a drawing depicting an apparatus for carrying out the process described in the specification and defined in the claims which were allowed him in his patent reissue of which is sought. The operation is described in considerable detail in the decisions of the tribunals of the Patent Office, particularly in the statement of the Examiner. The operation of the Bloch process as disclosed in his specification and defined in the claims which appellant copied for interference purposes is likewise described. Appellant's brief also describes both in detail.

It was pointed out by the Examiner that the appealed claims require "three separate and distinct steps. * * * [1] the purification of normal butane in the presence of concentrated sulfuric acid, [2] the isomerization of the purified normal butane, and [3] the alkylation with olefins of isobutane produced by the isomerization in the presence of used sulfuric acid from the purification step," and it was held, in effect, that appellant had no conception of practicing three steps and disclosed only two steps.

To state the matter somewhat differently, it was held, in effect, that in the process disclosed by appellant the purification step and the alkylation step take place in the same reaction chamber and at the same time.

The following taken from the Examiner's statement is clarifying:

> If it is granted that the alkylation step of Goldsby is a normal butane purification, then the isomerization of the purified normal butane takes place in the Goldsby zone 36 and the mixture of normal and isobutane from the isomerization products is passed by Goldsby's line 53 into the alkylation zone 3. The same zone that must be called the purification zone must now be considered the alkylation zone and these two operations, in order to respond to the claims, must be considered as taking place at two distinct and separate intervals of time. Moreover, we must go even farther. The claims call for using the used sulfuric acid from the purification as the alkylation catalyst. In Goldsby's alkylation, the acid is separated in separator 18 from alkylation products and the acid is recycled by line 20 to the alkylation zone. To meet the claims this recycled acid must be termed used acid from the purification step. The question is when is it used alkylation acid and when is it used purification acid? The same question arises with respect to the acid in the alkiation zone 3. When does it purify and when does it alkylate?

The foregoing seems to apply particularly to claims 7 to 10. With respect to claim 11, the Examiner said:

> * * * [It] calls for separating the isomerization products into residual gases, normal butane and isobutane. The claim does not call for separating the products into residual gases as one fraction and normal and isobutane as a second fraction. The claim calls for three fractions according to the punctuation thereof and as supported in Bloch whereas Goldsby discloses the separation of both butanes as a single fraction and the sending of the mixture by line 53 to the alkylation. As called for by claim 11 and as supported by Bloch only said isobutane without the normal butane goes to the alkylation. The normal butane present in the alkylation of Bloch is that which may accompany the olefins-containing charge.
>
> Applicant's invention is for a process wherein a mixture of normal butane, isobutane, and olefins, each in substantial amount, is subjected to an alkylation in the presence of concentrated sulfuric acid, the used acid is separated and recycled, and the normal butane is subjected to isomerization to isobutane which is passed to the alkylation. Bloch discloses and claims an entirely different process. According to his process, normal butane which contains no isobutane and may contain olefins only in small impurity proportions is treated with concentrated sulfuric acid to purify the normal butane so that the impurities thereof will not act to reduce the life of the isomerization catalyst. No alkylation takes place in the purification step since the reactants therefor are not present. In applicant's case, the alkylation step must be used twice at spaced intervals of time in order to read the copied claims upon applicant's disclosure. This is unwarranted and, therefore, the copied claims are unsupported and the inventions involved herein and that of the Bloch claims are different.

Appellant does not claim that he discloses a three-step process in which each step is separate from and independent of the other. In fact his brief states that he "conducts his alkylation reaction and his normal butane treating in the same reaction chambers 3, 12," but adds "the two different process steps of alkylation and normal butane purification nevertheless are accomplished."

This appears to amount to a claim that by his two-step process appellant obtains the same result as that obtained by Bloch in the three-step process, and it seems to be the gist of appellant's contention that the tribunals of the Patent Office erred in giving to the claims an interpretation which required that the purification step and the alkylation step must be carried out independently of each other and in separate reaction chambers.

Appellant urges that the appealed claims "are devoid of express limitations requiring them to be so construed"; that they "are free from ambiguity"; that they "should be given the broadest interpretation which they will reasonably support, and their scope should not be restricted beyond the fair and ordinary meaning of the language employed"; that by the construction given them "unexpressed limitations" were read into them (it being intimated that this was done to avoid a declaration of interference), and that the Board erred in not finding "necessary inherency" in appellant's disclosure.

All the foregoing points are covered by appellant's reasons of appeal, and are discussed at length in his brief before us, the discussion being supplemented by oral argument at the hearing. The arguments have been fully considered but we do not deem it necessary to respond to them in detail.

Appellant's contentions do not seem to be entirely consistent with each other.

We do not discern wherein the tribunals of the Patent Office read any "unexpressed limitations" into the claims. Upon the contrary, they definitely pointed out limitations which established a "three-step" process and properly recognized and regarded such limitations. They also definitely, and we think properly, pointed out that appellant disclosed only a two-step process. It seems to us that instead of reading limitations into the claims by construction they properly refused to read into them by construction limitations contended for by appellant.

It may be assumed that the product resulting from the practice of appellant's two-step process is as good as, or identical in character with, that resulting from the three-step process defined in the claims, but no product claims are involved here. The claims are for the process by which the product is produced. So, we regard the allegation respecting "necessary inherency" made by counsel for appellant as being without merit. A three-step process is not necessarily inherent in a two-step process.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HANSEN

No. 5,131. Decided April 1, 1946

[154 F.(2d) 684; 69 USPQ 332]

PATENTABILITY—PRINTED MATTER—BUSINESS RECORD.

The appealed claims, drawn to a business record embracing as four basic elements "(1) a foundation form having columns, (2) indicia on said foundation form identifying such columns, (3) strips attachable in the columns of the foundation form in a manner to leave the column indicia exposed, and (4) corresponding or matching indicia on such strips," *Held* patentable over the prior art; construing *In re Sterling*, 21 C. C. P. A. (Patents) 1134, 70 F.(2d) 910, 21 USPQ 519, 447 O. G. 999.

APPEAL from the Patent Office. Reversed.

Mr. Charles O. Bruce (*Mr. Edward Brosler* of counsel) for Hansen.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner rejecting the ten claims, numbered 1 to 10, inclusive, embraced in appellant's application for patent entitled "For Business Records." No claims were allowed.

It is said in the brief for appellant that the form of record involved was developed in connection with the keeping of records for chain-store systems, with one of which systems appellant had been connected prior to making up the form, and that it has been adopted in a limited territory by the system (a chain-store-grocery system) with which he was associated. An affidavit of appellant as to the extent of use by the system constitutes a part of the record.

The claims are not limited to chain-store systems, however, and evidently the form can be used in any business to which it is adaptable.

Claims 1 and 10 which are fairly illustrative of the alleged invention read as follows:

> 1. The combination of a foundation form having a plurality of columns determined by spaced vertical lines and suitable indicia disposed at an end of certain of said columns identifying the same; and a plurality of ruled strips each of the approximate width of a column and individually attachable to said foundation form in a column thereof and having an indicia thereon corresponding to that at the end of one of said columns, said strips being somewhat shorter than said columns whereby upon application of said strips to said foundation form, the indicia on said columns may be exposed to indicate proper or improper location of strips on said foundation form.
>
> 10. A system of preparing business records, comprising a plurality of foundation forms each having a plurality of columns and separate identifying indicia disposed at the ends of said columns, and a plurality of sheets, of less length than said columns and each provided with vertical scores to form a plurality of detachable strips, each of said vertical strips having indicia thereon corresponding with indicia at the end of that column of each said form with which it is to be associated, whereby upon application of each said strip to said form, the indicia on said form may be exposed to indicate proper or improper location of strips on said form.

The drawing of appellant's application, as described in the specification, discloses a foundation sheet lined vertically and divided into columns by horizontal "guide" lines. At the top of the respective columns are printed the names of different departments of the store such as "Milk and Cream," "Bread and Cake," "Produce," etc. Vertically ruled strips (preferably having their backs coated with an adhesive) approximating, or somewhat narrower than, the width of the columns on the foundation sheet are attached to that sheet, the strips having at their tops printed indicia similar to the names at the tops of the columns of the foundation sheet. The strips are shorter than the columns and are so attached that the names in the columns remain visible. Consequently, if one of the strips is placed over the wrong column the mistake is easily discernible and, as stated in the brief of the Solicitor for the Patent Office, "When a foundation form has been completely filled with appropriate strips, useful information as to the daily delivery to any one department of the entire chain can readily be obtained by adding the column vertically."

So, as epitomized in the brief for appellant the structure embraces four elements alleged to be basic, viz.:

> * * * (1) a foundation form having columns, (2) indicia on said foundation form identifying such columns, (3) strips attachable in the columns of the foundation form in a manner to leave the column indicia exposed, and (4) corresponding or matching indicia on such strips.

The brief further alleges that "The absence of any one of these basic elements divests the invention of its identity," and "This is important from the viewpoint of the prior art."

In addition to the four features designated in appellant's brief as basic, common to all the claims, the brief (referring to them as "refinement" features) directs attention to certain limitations in claims 2, 3, 4, 7, and 8, but there is no contention that such limitations form patentable subject matter independently of the so-called basic elements. In other words, all ten claims stand or fall together.

The Primary Examiner rejected the claims upon two grounds, one being that of aggregation.

The Board reversed as to that ground and it is not involved before us.

The other ground was that the claims are unpatentable over prior art as disclosed in the following references: Lubin, 1,318,163, October 7, 1919; Willford, 1,634,240, June 28, 1927; Pezze (British), 352,442, January 6, 1930.

The Lubin patent is for an order blank for use by the customers of mail-order houses. It consists of a sheet ruled horizontally for columns designated A. B. C., etc., and vertically for listing the goods desired, descriptions and prices being stated in the appropriate columns. At the top of the sheet the name of the mail-order house appears in print underneath which are vertical lines for the name and address of the customer. The specification recites:

> In carrying out the present invention I provide duplicate order blanks which are appropriately ruled and designated. The upper of these blanks, or the original, is formed with a carbonized backing, whereby the indicia will be transferred to the second blank, which blank is formed with a series of fields divided by perforations, so that the different parts of the duplicate sheet may be removed and applied to the address label of the package forwarded to the customer and the others to department sales checks, the back of the second blank being gummed for this purpose.
>
> * * * * * * *
>
> Referring to Fig. 2, it will be seen that the carbonized back of sheet 10 will transfer all of this indicia to corresponding columns on the second sheet 11. The different items upon this sheet, however, are separated by perforated lines 12 which extend the width of the blank. Due to this arrangement the various items may be torn from the blank and separated from each other so that they may be fixed by their gummed back to department sales checks, thus eliminating transcription as is now the practice.

The Wilford patent is for a form of insurance policy contract. It discloses a sheet ruled horizontally and vertically, spaces being indicated by lines in which spaces are to be placed a plurality of detachable strips for data, each strip registering with the appropriate space. It is a complicated form which need not be described in detail.

The Pezze (British) reference seems to be an application published by the British Patent Office upon which no patent was issued because the application was not accepted within the time fixed by British law. It appears to be a form for use in accountancy. It is captioned "Improvements in Bookkeeping Appliances." It discloses a sheet, marked 1 in the drawing, gummed on one of its faces, with perforated horizontal lines for separating the entries and vertical lines for separating the creditor and debtor entries. A carbon sheet is provided by means of which the entries on sheet 1 are reproduced on another sheet. We hereinafter express our view concerning this reference.

In the statement of the Examiner made following the appeal to the Board it was said that each of the cited references "discloses a sectional record sheet separable into strips and provided with a gummed back, which are adapted to be secured to a foundation sheet to avoid copy work. The foundation sheet may be provided with any printed matter desired."

Following the foregoing statement, the Examiner continued:

> Printed matter does not relate to physical structure and [,] where *the sole distinction over the art*, it is not within the provisions of the patent statute. [Italics ours.]

In support of the holding last quoted the Examiner cited the case of *In re Sterling*, 21 C. C. P. A. (Patents) 1134, 70 F.(2d) 910, 21 USPQ 519, 477 O. G. 999.

The authority so cited supports the Examiner's holding so far as the holding relates to "printed matter."

So far as we are aware, no patent has ever been granted upon a structure wherein the sole distinction over the art consisted of printed matter.

As we understand appellant's contentions here, however, he does not rely upon the printed matter as the sole distinction between his structure and the structures disclosed by the references, but treats it merely as an element incidental to the arrangement of the columns and strips described. Neither the specification nor the claims use the term "printed matter," but both use the term "indicia," which indicia is shown in the drawing in printed form.

In the Sterling case, supra, we made reference to the case of *Cincinnati Traction Co.* v. *Pope*, 210 Fed. 443, 204 O. G. 675, and to our discussion of it in the case of *In re McKee*, 20 C. C. P. A. (Patents) 1018, 64 F.(2d) 379, 17 USPQ 293, 433 O. G. 509, and stated, in substance, that we thought the decision (in the Traction Co. case) had sometimes been misunderstood or misconstrued.

Numerous patents have been granted on structures containing printed matter. The Lubin and Wilford patents used as references in this case are examples, but that matter did not of itself render the structures patentable. It was merely an incidental part of the structures taken as a whole.

We do not understand that either the Examiner or the Board rejected the instant claims solely on the basis of printed matter shown in the drawing. The rejection was simply on the ground that, in view of the structures shown in the prior art cited, no invention was involved in providing the particular form of business record which appellant made up.

A feature of his form emphasized by appellant is that of the proportions—length and width—of the strips attached to the columns outlined on the foundation sheet. As to width, some of the claims which refer to that element recite the strips as being of the "approximate width" of the columns, while other describe them as being narrower. All the claims which mention "length" define it as being less than the length of the column.

The purpose of making the strips shorter than the length of the columns of the foundation sheet to which the strip is attached obviously is to leave the column indicia exposed, so that the strips, also having indicia, may be attached to the right column.

The Examiner's statement contained no discussion of the features of length and width of the strips.

The Board stated in one part of its opinion that "Pezze does not show the strip made shorter than the foundation column," and in another part "Pezze shows a strip with space for the indicia but is silent as to indicia on the foundation sheet." The Examiner did not discuss the Pezze reference in his statement (nor did he discuss either of the other references) except as hereinabove quoted.

We are unable to find in the Pezze reference any disclosure which we regard as pertinent to the issues here involved.

With respect to the other references the Board said:

> The strips of Wilford (Fig. 8) appear to be shorter than the foundation column but the indicia on the two columns as stated in the claims are not found in Wilford. Lubin likewise has only a broad teaching of applicant's invention.
> Wilford shows a general arrangement which can be said to correspond to claim 9.

The Board pointed out that claim 10 "is merely for the use of the strip and foundation," and added:

> As to the other claims, we do not see that it makes any difference whether the strip width is the same as that of the foundation column or slightly less (claims 7, 8).
> The dollars and cents line of claims 7 and 8 is not a physical structure and in any event is not patentable.

It will be noted that the Board stated that the strips of Wilford appear to be shorter than the foundation column. This evidently was based upon its deduction drawn from viewing the figure of the Wilford drawing referred to. We do not find any teaching to that effect in the specification, and, so far as the purpose of the strips in the Wilford patent is concerned, their lengths would not seem to be material.

In appellant's form, length is a material feature, but the Board evidently was of opinion that it was not an inventive act to make the strips of the desired length.

From our examination of appellant's structure and our comparison of it, taken as a whole, with the structures of the references, taken as a whole, we feel constrained to differ with the Board's decision affirming that of the Examiner.

We think it obvious that appellant has developed a form of record substantially different from the forms shown in the references, and that appellant's form is novel and useful.

It would be impossible for any one, however greatly skilled in the art, to take the form of Lubin, for example, and use it as appellant's form is used. The same is true of the Wilford form. Also, it is obvious that no one, however greatly skilled in the art, could take the Lubin and Wilford structures and combine them into a structure which would meet appellant's structure.

We think appellant's structure differs materially from each of them.

We have hereinbefore stated that upon the feature of "printed matter" the Sterling case, supra, supports the holding upon that feature. It is not here controlling upon the question of structure, however, because of the differences of fact.

The decision of the Board is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE WOOD ET AL.

No. 5,138. Decided April 1, 1946

[— F.(2d) —; 69 USPQ 337]

1. CLAIMS—REJECTION—MULTIPLICITY.

Held that the rejection of claims for multiplicity "is applied when by unduly and unnecessarily multiplying claims the applicant's alleged invention is so obscured as not to meet the requirements of the statute that the invention be fully, clearly and concisely described, and distinctly claimed in the application."

2. SAME—SAME—SAME.

"It would seem to follow that in a proper case where the applicant presented so many claims that he had obscured rather than clearly defined his invention the Patent Office would be warranted in refusing to consider the application and in rejecting all the claims until they had been reduced in number by the applicant within reasonable limits."

3. SAME—SAME—SAME.

"It would be difficult to lay down any hard and fast rule as to just how many claims an applicant may be justified in presenting to the Patent Office. It being impracticable to establish a definite line of demarcation as to the number of claims, the question must be decided upon the particular circumstances presented in each case."

4. SAME—SAME—SAME.

"That an applicant for a patent has the right to express in a single application and in more than one claim the same invention, although worded in different language or including elements omitted in other claims which do not affect the patentability of one claim over another, and that he may be entitled to have in a single application article and method claims, Markush claims, species claims and broad and narrow claims is too well-settled to justify extended argument here. It has been the settled practice of the Patent Office and the courts, with rare exceptions, to permit applicants considerable latitude in defining in more than one claim their real inventions."

5. SAME—SAME—SAME.

"It may be that objectionable multiplicity might rest in a lengthy and unnecessary recital, in a number of claims, of immaterial limitations, where results contrary to the purposes of the statute are brought about. However, for infringement purposes we can readily understand that the inclusion in a claim of a limitation old in the art and not of vital importance to its patentability might be helpful in determining the question of whether an invention has been infringed, and certainly, unless claims of this character are unduly multiplied, no harm can be done in allowing them."

6. SAME—SAME—SAME.

Where the Board of Appeals ruled that two of the seven claims presented by appellants were adequate to cover the "patentable novelty" disclosed by their application, though none of the claims was deemed met by the prior art, *Held* that the "difficulty with the decision appealed from * * * is that it involves the question as to who is to determine and under what circumstances is it to be determined whether one or two claims are all that is necessary for protecting an admitted invention," and that "as a general proposition the one who prepares the application and familiarizes himself with his case and the prior art and the applicable law ought to have considerable latitude in determining what is necessary for the full protection of his patent rights;" and *Held* that the Board's rejection of the five claims would be reversed.

APPEAL from the Patent Office. Reversed.

Mr. Arthur Wm. Nelson and *Mr. William L. Edmonston* for Wood et al.

Mr. W. W. Cochran for the Commissioner of Patents.

BLAND, *J.*:

Appellants have here appealed from the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Examiner of claims 9, 12, 16, 17, and 18 of their application for a patent relating to the seating portion of a chair.

The claims are as follows:

9. A chair seat embodying therein a seat bottom, body engageable means supported upon said seat bottom and arranged to provide a channel in the seat bottomed by an associated part of the seat bottom in line therewith, said channel having parts one of which curves rearwardly and laterally from the front central portion of the seat toward the rear portion of opposite sides of the seat and another part of which is disposed between the sides of the seat and opens at one end into the first mentioned part of the channel and extends away therefrom toward the rear of the seat, the central portion of said one part of said channel being of such width as to permit the depression of the fleshy parts of the legs of the occupant thereinto so that the front edge of said channel part functions as an abutment sensible to said leg parts to remind the occupant to return to proper position on the seat.

12. A substantially rectangular chair seat embodying therein a seat bottom, a pair of body engageable members disposed each upon an associated rear end corner of the seat bottom, said members terminating at their front ends short of the front of the seat and spaced apart but sloping toward each other at their adjacent edges to leave a channel in the median rear portion of the seat, body engageable means at the front of the seat bottom and extending from side to side of the seat, said means being spaced at its rear edge from the front edge of said body engageable members to leave a channel, the first mentioned end of the channel opening into the second mentioned channel substantially at its mid portion.

16. A chair seat having a generally transversely disposed channel therein spaced substantially rearwardly from the front edge of the seat, at least the front central portion of the channel being closer to the front edge of the seat than to the rear edge, the end portions of said channel extending toward the rear end of the sides of the seat and the central portion of the channel being of such width as to permit the depression of the fleshy part of the legs of the occupant thereinto so that the front edge of the channel functions as an abutment sensible to said leg parts to remind the occupant to return to proper position on the seat.

17. A chair seat having a plurality of channels therein, one of said channels extending generally in a direction transversely of the seat and the other generally in a direction toward the rear of the seat and disposed substantially centrally between the sides of the seat to form two body engageable seat portions having parts that slope downwardly toward each other at said other channel.

18. A chair seat having a plurality of channels therein, one of said channels extending generally in a direction transversely of the seat and terminating short of the sides of the seat and the other extending in a front to rear direction and opening at one end into the other of said channels and stopping short of the rear of the seat, said channels dividing the seat into a front portion and two rear portions, the front portion sloping downwardly toward the front edge thereof, and the two rear seat portions having parts that slope downwardly toward each other at said other channel.

The Primary Examiner allowed claim 14 and pointed out certain defects in claim 11 and rejected it. The Board affirmed the action of the Examiner in rejecting the claims on appeal here but allowed claim 11 which was amended to meet the criticism of the Examiner. The allowed claims follow:

11. A chair seat embodying therein a seat bottom, body engageable means on the seat bottom and including portions at the rear side parts of the seat bottom and terminating short of the front of the seat, said portions being spaced apart at their adjacent sides so as to form a channel therebetween which is disposed on the medial line of the seat from front to rear, said body engageable means including a portion at the front of the seat and spaced from the front of said first mentioned portions to form a channel therebetween extending substantially transversely of the seat from side to side thereof, the first mentioned channel opening at its front end into the second mentioned channel at a point between its ends, said channel being bottomed by parts of the seat bottom in line therewith, parts of the body engageable means adjacent the second mentioned channel sloping downwardly toward each other at said part of said second mentioned channel.

14. A chair seat embodying therein a seat bottom, a plurality of body engageable members supported upon the rear side parts of the seat bottom and terminating short of the front of the seat, said members being spaced apart at their adjacent edges so as to form a channel therebetween which is disposed on the median line of the seat from front to rear, said members having top surfaces inclined upwardly from said channel toward the sides of the seat, body engageable means on the seat bottom at the front of the seat and spaced from said body engageable members to form a channel therebetween extending substantially transversely of the seat from side to side thereof, the first mentioned channel opening at its front end into the mid portion of the second mentioned channel, the top surface of said body engageable means, in at least the central portion thereof, being inclined at the front margin toward the front of the seat.

The Board in its decision stated:

The appealed claims are directed to a chair seat which comprises a rigid base portion having certain ventilating openings therein. At the back of the seat are a pair of pads which are spaced apart so as to form a channel. These back pads slope upwardly. At the front there is a single pad extending all the way across the seat. Between this front pad and the two back ones is a channel registering with the ventilating openings in the seat. It is alleged that by sloping the two back pads upwardly from the center it will tend to crowd in the pelvic bones and the transverse channel will tend to prevent one from slipping backward on the seat. The seat is also provided with a back rest but this is not involved in the appealed claims.

The structure shown in the various patents cited are quite simple and need no detail description. Perhaps the most pertinent reference is the patent to Wood, cited above. This seat is convex when viewed from above, but it lacks the transverse groove or channel disclosed in the present case. The French patent cited shows a transverse channel in Fig. 3, but this appears to be filled with a cord or like element. *It is believed that patentable novelty is disclosed here and that the same could be adequately covered by claims 11 and 14. While the other claims are not deemed to be met by the prior art, still they are considered unnecessary and the rejection of the same must be sustained.* [Italics ours.]

The invention is sufficiently described in the claims and in the first above-quoted paragraph of the Board's decision.

The references relied upon by the Examiner are as follows: Ollis, 1,961,641, June 5, 1934; Wood, 2,061,054, November 17, 1936; Fisher, 2,199,047, April 30, 1940; Laroche (French), 807,887, October 26, 1936.

In view of our disagreement with certain features of the Board's decision we think it important to here set out the language used by the Examiner in rejecting the appealed claims:

Claims 9, 11 and 12 are considered unpatentable over Fisher, Laroche and Wood, applicant's patent. Fisher shows the idea of providing deep channels which would provide abutments for the fleshy parts of the upper legs of an occupant. There would be no invention in making Fisher's transverse channel extend to the sides of cushion and making the cushion rectangular as taught by Laroche, Figure 3, and putting a seat bottom under the cushion and making the edges of cushion along the channels and at the front sloping and making the cushions section slope toward the middle as taught by applicant's patent.

In claim 11, line 13, "channel" should be plural. At the end of the claim the definition "at said part of said second mentioned channel" is indefinite. It is not known what is meant. The words "said part" have no antecedent.

Claim 16 is considered unpatentable over Ollis in view of Laroche. There would be no invention in making the ends of Ollis' channel extend into the sides of the base instead of the rear edge as taught by Laroche. In Ollis' the channel is wide enough to provide a noticeable abutment.

Claim 17 is considered unpatentable over Laroche in view of Wood. There would be no invention in providing only one central channel, 4, in Laroche's cushion, Figure 3, and having the tops of the side cushion sections slope toward each other as taught by Wood.

Claim 18 is rejected as not patentable over the references applied to claim 17. There would be no invention in closing the ends of the channels and sloping the front edge of Laroche's cushion as taught by Wood.

It will be noted that the Examiner rejected the appealed claims (and claim 11) upon the prior art and gave his reasons therefor. The Board disagreed with the Examiner and stated:

It is believed that patentable novelty is disclosed here and that the same could be adequately covered by claims 11 and 14. While the other claims are not deemed to be met by the prior art, still they are considered unnecessary and the rejection of the same must be sustained.

The appellants did not present oral argument in this appeal but in their brief urge the error in the Board's decision to which we have last herein referred and also question the holding of the Examiner.

The appellants in their brief point out the features of the appealed claims upon which they rely for patentability and the features which, according to their contention, the prior art did not meet, as was held by the Board. They also state in what respects each of the claims differs from the others.

Since we here reproduce each of the appealed claims and the two allowed claims, and in view of our conclusion, it is not necessary to state here in what respects the claims differ. It is sufficient to state that they differ in respects which are important in view of the issue to be decided.

The Solicitor for the Patent Office, in supporting the decision appealed from, stated:

* * * While a rejection on this ground [multiplicity] is not frequently made where, as here, the claims are not numerous, it is submitted that such rejection is proper where an applicant presents more claims than are necessary to protect his invention. The presentation of unnecessary claims tends to confuse rather than "particularly point out and distinctly claim" the invention as is required by section 4888 R. S.

He then states that said section 4888 R. S. "makes reference to 'the claim' and thus implies that one claim may be sufficient to 'particularly point out' the invention."

Whether the Solicitor implies that the statute authorizes only the allowance of one claim under all circumstances we do not know, but certainly this is not the construction given to the statute throughout the years since its enactment.

The Solicitor also relies upon the case of *In re Prescott et al.*, 278 Fed. 590, 51 App. D. C. 281, 301 O. G. 389, in which the court allowed a single claim of the seventeen claims which were on appeal and then stated:

Inasmuch * * * as claim 28 completely covers applicant's contribution to the art, there is no reason for allowing a large number of claims, and thus inviting controversy and litigation.

Claim 28 was allowed.

The Solicitor also cites this court's decision in *In re Einstein*, 18 C. C. P. A. (Patents) 885, 46 F.(2d) 373, 8 USPQ 166, 406 O. G. 287, which held that:

Two distinct claims for the same substantial matter, differing only in non-essentials, cannot both be sustained.

[1] Neither the Examiner nor the Board rejected the claims upon the ground of multiplicity, which ground of rejection is applied when by unduly and unnecessarily multiplying claims the applicant's alleged invention is so obscured as not to meet the requirements of the statute that the invention be fully, clearly and concisely described, and distinctly claimed in the application.

[2] It would seem to follow that in a proper case where the applicant presented so many claims that he had obscured rather than clearly defined his invention the Patent Office would be warranted in refusing to consider the application and in rejecting all the claims until they had been reduced in number by the applicant within reasonable limits. This was not done in the instant case.

It is a matter of common knowledge that patent applicants have frequently obscured their inventions and not complied with the spirit and letter of the statute by presenting a great multiplicity of claims, most of which were of no value and served only the purpose of confusion. It has been stated in this court by counsel for the Patent Office that applications including as high as 204 claims have been filed for comparatively simple inventions and that such procedure, even if sanctioned by law, puts an intolerable burden on the officials of the Patent Office. As we have said before, we think it wholesome to discourage this tendency towards undue prolixity where it is clear that the purposes of the statute are not being carried out properly, and as we have said in substance elsewhere we had no disposition in our holdings to lend encouragement to a practice so universally condemned. *In re Buttolph*, 22 C. C. P. A. (Patents) 973, 75 F.(2d) 629, 24 USPQ 375, 456 O. G. 503.

[3] Unless we adopt the implied suggestion of the Solicitor that an applicant is only entitled to *a* claim, it is obvious that it would be difficult to lay down any hard and fast rule as to just how many claims an applicant may be justified in presenting to the Patent Office. It being impracticable to establish a definite line of demarcation as to the number of claims, the question must be decided upon the particular circumstances presented in each case.

[4] That an applicant for a patent has the right to express in a single application and in more than one claim the same invention, although worded in different language or including elements omitted in other claims which do not affect the patentability of one claim over another, and that he may be entitled to have in a single application article and method claims, Markush claims, species claims and broad and narrow claims is too well-settled to justify extended argument here. It has been the settled practice of the Patent Office and the courts, with rare exceptions, to permit applicants considerable latitude in defining in more than one claim their real inventions.

In a recent decision by this court, *In re Barnett*, — C. C. P. A. (Patents) —, — F.(2d) —, 69 USPQ 609, decided June 7, 1946 (dissenting opinion not based on the instant question), this court pointed out the holdings of the courts on this question and we need not repeat here what we said there except in a general way to say that good patent lawyers usually present and are by the Pat-

ent Office permitted to present several claims covering the same invention, though worded in different language, in order that the real invention may be properly described and that the interpreters of the same may be aided in their interpretation and in arriving at what is the real invention claimed.

In *In re Barnett*, supra, we pointed out the inadvertence of the statement in the Einstein case, supra, and called attention to the fact that the authorities there cited did not support the above-quoted statement therein and that the practice of the Patent Office in allowing claims, with few exceptions, was absolutely to the contrary.

As before stated, the Solicitor for the Patent Office has also relied upon that seldomly cited case, *In re Prescott et al.*, supra, in which one claim was allowed and sixteen were rejected. It is interesting to note that this case, decided in 1922, has never been cited by that court except in matters unrelated to the question there and here involved and that as far as we have been able to find has never been cited by this court or by the Patent Office in its decisions except in cases where the same facts as are here were not present and in which the ruling of the Prescott case was not controlling. In some of the Patent Office decisions, however, in which the Prescott case has been cited, it has been held that it was proper to reject a number of claims which differed from another single claim where the several claims contained limitations which did not make them inventive over the other claims.

[5] It may be that objectionable multiplicity might rest in a lengthy and unnecessary recital, in a number of claims, of immaterial limitations, where results contrary to the purposes of the statute are brought about. However, for infringement purposes we can readily understand that the inclusion in a claim of a limitation old in the art and not of vital importance to its patentability might be helpful in determining the question of whether an invention has been infringed, and certainly, unless claims of this character are unduly multiplied, no harm can be done in allowing them.

[6] The difficulty with the decision appealed from, which is also present in the holding in the Prescott case, supra, is that it involves the question as to who is to determine and under what circumstances is it to be determined whether one or two claims are all that is necessary for protecting an admitted invention. Surely as a general proposition the one who prepares the application and familiarizes himself with his case and the prior art and the applicable law ought to have considerable latitude in determining what is necessary for the full protection of his patent rights.

In the instant case the claims are concededly not met by the prior art and inventive novelty is admitted. Only seven claims were presented. We think the Board gave no justifiable reason for its rejection of claims 9, 12, 16, 17, and 18, and its decision affirming the Examiner's rejection as to these claims is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE PAESANI

No. 5,134. Decided April 1, 1946

[154 F.(2d) 695; 69 USPQ 335]

PATENTABILITY—WELDING.

Claims to a method of welding *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Carlson, Pitzner, Hubbard & Wolfe (*Mr. Alwin F. Pitzner, Mr. Richard Russell Wolfe*, and *Mr. William A. Smith, Jr.*, of counsel) for Paesani.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This appeal is from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting all of the claims, six in number, of an application for a patent for a method of and means for oxy-acetylene welding of metals. All of the claims are method claims. They were rejected in view of the prior art, consisting of Alexander, 1,746,207, February 4, 1930; Krebs, 1,866,044, July 5, 1932; Ness, 2,181,095, November 21, 1939; Vaughn et al., 1,194,920, March 26, 1940; Cain, 2,207,655, July 9, 1940.

Claim 1 is illustrative and reads as follows:

1. A method of oxy-acetylene welding consisting in burning a jet of oxygen and acetylene mixed in proportions to obtain a high temperature welding flame, directly applying said flame to the metal to be welded whereby to make a fusion weld, burning a separate jet of hydrogen contiguous to the oxy-acetylene flame, and directly applying the hydrogen flame to said metal so as to envelope said oxy-acetylene flame and said weld.

The subject matter of the rejected claims concerns a method of metal welding by means of a conventional oxy-acetylene flame around which a burning jet of hydrogen surrounds the oxy-acetylene flame and the adjacent portion of the weld. The hydrogen envelope prevents the metal being welded from oxidation by the surrounding atmosphere and thus protects it against undesirable change.

The Alexander patent discloses an electric arc welding method in which a hydrogen flame surrounds the arc and the area of the workpiece being welded. The purpose of the hydrogen flame is to protect the welding area from the harmful effects of the surrounding atmosphere. The patentee stated that he found nitrogen as a shield to be inefficient as the welds made when using it as a reducing agent were unsatisfactory in that the welded metal was brittle, and that he then "developed the use of hydrogen instead of nitrogen for surrounding an arc weld."

The Krebs patent also relates to a welding process wherein the heat for the weld is produced by an electric arc, which is surrounded by a hydrogen flame in the same relationship as appears in the Alexander patent.

The patent to Ness relates to blowpipes, welding torches and the like, and discloses a welding process by means of oxy-acetylene gas wherein a lithium compound is introduced into the welding flame to prevent oxidizing conditions around the area being welded.

The patent to Vaughn et al. discloses a welding and brazing process by means of an oxy-acetylene flame with volatile flux compounds which hydrolyze in the presence of moisture to retard oxidation in the welding zone.

The Cain patent discloses a process of oxy-acetylene welding in the conventional fashion in which the welding flame is surrounded by an atmosphere-excluding shield of nitrogen in the welding area.

The Primary Examiner rejected the claims as unpatentable over the Cain patent, holding that the nitrogen of the patent serves the same purpose as the hydrogen of appellant's process, and that there was no invention in substituting the one gas for the other, especially in view of the Krebs process, in which is shown the value of hydrogen as a reducing medium in welding.

The Examiner rejected the claims also on the patents to Ness and to Vaughn et al. for the stated reason that there could be no unobvious result in the substitution of hydrogen for the reducing mediums disclosed in those patents.

The claims were further rejected by the Examiner on the ground that it would not require invention to substitute an oxy-acetylene flame for the electric arc of the Krebs patent, stating "In the welding art one form is deemed to be the full equivalent of the other."

The Examiner held that the ratio of hydrogen and oxy-acetylene gases as defined in some of the claims was merely a matter of degree or choice and not critical in a patentable sense, stating "It appears that it would be obvious to apply the hydrogen at a lower pressure than the oxy-acetylene."

The Board of Appeals in its decision discussed the rejections of the Examiner as based on the Cain, Krebs and Alexander patents, stating that the other rejections of the Examiner were cumulative.

Appellant points out that none of the references discloses an oxy-acetylene process of welding which includes a surrounding of the welding flame by a hydrogen flame. While this is true, the method of the Cain patent discloses an enveloping of an oxy-acetylene flame with a jet of nitrogen. The reason for the surrounding of the welding flame by that inert gas is said by the patentee to be to exclude the deleterious effect of the air on the molten metal in the welding area. The process of the Krebs patent shows the envelopment of his electric arc and the corresponding area of the workpiece by a stream of burning hydrogen used in the same relationship to the heat means as the nitrogen is to the heat means in the Cain patent. It appears to us that since both these processes were well known, and since there is nothing in the record to contradict the statement of the Examiner that "In the welding art one form [either of arc or oxy-acetylene welding] is deemed to be the full equivalent of the other," there can be no invention in substituting hydrogen for the nitrogen in the process disclosed in the patent to Cain.

In view of what has been pointed out herein, we are of opinion that the claims were properly rejected and the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE BURHANS

No. 5,128. Decided April 1, 1946

[154 F.(2d) 690; 69 USPQ 330]

PATENTABILITY—FLOUR AND BREAD.

Upon consideration of appellant's application for a method of making flour, for a method of making bread and for "genuine whole wheat flour" as an article of manufacture, *Held* that "the Primary Examiner and the Board of Appeals correctly decided that the methods and article defined in the appealed claims were not patentable over the art of record for the reason that what appellant has done would be obvious to anyone skilled in the art."

APPEAL from the Patent Office. Affirmed.

Mr. John F. Eakins for Burhans.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in rejecting in appellant's application for a patent claims 2 and 4 for a method of making flour, claims 5 and 6 for a method of making bread, and claims 8 and 10 for an article of manufacture of genuine whole wheat flour. The foregoing claims were all rejected as lacking invention over the prior art and claims 5 and 6 were further rejected as aggregative. There were no claims allowed.

Claims 4, 6, and 10 are illustrative and sufficiently descriptive of the alleged invention. They read:

4. The method of making genuine whole wheat flour which consists in separating the germs from the wheat, manufacturing flour from the remaining constituents of the wheat, aging the flour, incorporating thereinto finely divided non-rancid wheat germ constituents, and thereafter impregnating the flour with carbon dioxide.

6. The method of making genuine whole wheat bread which consists in separating germ constituents from wheat, reducing the remaining constituents of the wheat to flour, aging the flour, incorporating in the aged flour finely divided non-rancid wheat germ constituents, thereafter impregnating the flour with carbon dioxide, making the flour into dough and baking the dough while the flour still retains a substantial amount of carbon dioxide.

10. As an article of manufacture, genuine whole wheat flour comprising finely divided non-rancid wheat germ constituents and the remaining constituents of the wheat in finely divided and aged condition, the whole mass of the flour being impregnated with carbon dioxide.

The references are: Currie (British), 5,614, of 1828; Byrne, 29,859, September 4, 1860; Dietz, 1,974,808, September 25, 1934; Donk et al., 2,085,421, June 29, 1937; Wellinghoff, 2,230,417, February 4, 1941.

In support of his position here, appellant states in his brief:

* * * It is pertinent to note that the reason that white bread is so widely used notwithstanding its well-known deficiencies, is that flour to be used by bakers must be aged before it acquires good baking qualities. The aging of flour is an oxidation process which can be effected by allowing the air to work on the flour for an adequate period of time. It was found that flour could be aged much more rapidly by incorporating therein an oxidizing agent and flour thus aged is usually referred to as "pat-

ent" flour. The wheat germ contains a large proportion of oil and this oil has a great tendency to become rancid. To avoid this rancidity the milling art has from time immemorial separated the germ from the wheat and the resulting flour could then be aged. The development of rancidity is also an oxidation process and if the germ were ground up with the wheat kernel the aging process would inevitably result in full development of rancidity.

The present applicant has discovered that carbon dioxide has the quality of preventing overaging of flour and of preventing the development of rancidity. Consequently his method of making a true whole wheat flour or an enriched flour comprises the following steps in the order stated:

a. Separating the germs from the wheat kernels and the manufacture of flour from the rest of the kernel;
b. Aging the germless flour;
c. Incorporating in the aged germless flour finely divided non-rancid wheat germ constituents; and
d. Impregnating the flour with carbon dioxide. [Emphasis quoted.]

The appealed claims have all been rejected on Donk et al., Wellinghoff and Dietz in view of Byrne or Currie.

Currie shows a method of preserving grain and other vegetable and animal substances by the application of carbon dioxide while the material is stored in air-tight vessels, or other proper receptacles. He thus prevents, according to his disclosure, the tendency of the grain to vegetate and greatly hinders the decomposition of other vegetable and animal matters.

Byrne discloses a process for treating the flour of wheat and other grain with carbon dioxide while the flour is inclosed in an ordinary flour bolting chest. In his specification, Byrne states—

> It is a well known fact to dealers in flour, that the flour of wheat when freshly ground is unfit for the use of bakers, as it makes a much smaller loaf than when it has acquired some age. It is also well known that too much age causes decomposition, the flour generates animalcules and becomes unfit for any use except starch manufacture. As a remedy for these evils, I treat freshly ground flour with carbonic acid gas. It renders fresh flour fit for immediate use and prevents flour at a far advanced age from decomposition.

In the patent to Dietz it is pointed out that "the introduction of the wheat germ, as such, into flour tends, by reason of the relatively large quantity of germ oil, to make the flour rancid and to affect its color and texture." Dietz describes a process for making flour by extracting the germ from the wheat, milling the residue into flour, extracting and activating the oil from the germ "to a high potency in vitamin D and the activated oil is then mixed with the residue of the germ in any desired proportion." The resultant mixture is then introduced in small quantities into flour prepared in any usual manner.

Donk et al. relates to processes in treating wheat germ so as to make it useful in the manufacture of bakery and other food products. The patentee separately grinds and treats the fresh wheat germ as released in the flour mill in the process of milling. It is then packaged in appropriate containers in an inert gas such as carbon dioxide. Subsequently the treated wheat germ is incorporated into bakers' mixture. To cure the deficiency in refined wheat flour as ordinarily used for bread, one of the principal objects of Donk et al. is "to make available for introduction into the ordinary bakers' mixture for bread an even larger proportion of wheat germ than is ordinarily in the wheat grain or berry."

Wellinghoff removes the oil from the wheat germ and the non-rancid residue is reintroduced into the flour stream for further milling with the flour.

Dietz, Wellinghoff and Donk et al. do not specifically describe the step of aging the flour, but it is referred to in Byrne and each of the foregoing references contemplate that the flour would be aged prior to its use by the baker. The aging of flour is not only old in the art but it is also conventional as hereinbefore noted. In Dietz, Wellinghoff and Donk et al. the wheat germ is separately ground and treated to remove the rancid element in the germ and the non-rancid germ is thereafter incorporated in aged flour for the bakers' mixture. Donk et al. also shows that rancidity may be eliminated by storing the germ contents in carbon dioxide, and Byrne discloses that it is old to impregnate flour with carbon dioxide for the purpose not only of rendering freshly ground flour fit for immediate use by the baker but also of preserving the flour by the prevention of its decomposition.

The cited references considered collectively clearly suggest doing the thing that appellant has done in this case and the Primary Examiner and the Board of Appeals correctly decided that the methods and article defined in the appealed claims were not patentable over the art of record for the reason that what appellant has done would be obvious to anyone skilled in the art. See *In re Stover*, 32 C. C. P. A. (Patents) 823, 146 F.(2d) 299, 64 USPQ 186, 573 O. G. 367.

Appellant contends that the references taken singly or together do not teach his characteristic four steps which are new in the art and which are necessary to obtain the desired result. There is no merit in the point here in the absence of any proof in the record that the order of performing the steps produces any new and unexpected results. See *In re Gibson*, 17 C. C. P. A. (Patents) 1090, 39 F.(2d) 975, 5 USPQ 230, 397 O. G. 4; *In re Lang et al.*, 25 C. C. P. A. (Patents) 1322, 97 F.(2d) 626, 38 USPQ 187, 497 O. G. 551; *In re McKee*, 23 C. C. P. A. (Patents) 1187, 83 F.(2d) 819, 29 USPQ, 473 O. G. 496.

In view of our conclusion it is unnecessary to discuss and pass upon the question of aggregation and the decision of the Board of Appeals is accordingly affirmed.

Affirmed.

Notice

U. S. PATENT OFFICE, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,383,165. MARKED STEEL BAR AND METHOD OF MARKING. Patented Aug. 21, 1945. By marking bars of steel to a predetermined depth (by means of groove indentation, etc.) the user can immediately determine how much mill skin occurs in the steel. The skin can then be machined or removed in its entirety to prevent loss in the tools, dies, or other metal working parts into which the soft steel is transformed by industrial processes such as machining, grinding, heat treating, etc. (Owner) Charles V. Schuyler, 1258 East Pike St., Philadelphia 24, Pa. Group 33—12. Reg. No. 3,304.

Pat. 2,396,160. SERVICE RIBBON BAR. Patented Mar. 5, 1946. For displaying duplications of war ribbons and the like. May be worn in buttonhole or as a brooch. Has inturned flanges on opposite sides with insignia grooved so that it may be slid on bar. Bar is entirely concealed from view after insignia has been placed thereon. (Owners) Charles S. Coulter and Colette Romanet Coulter. Address correspondence to Jean Coulter Maddox, Riggs National Bank, Friendship Branch, Washington, D. C. Groups 39—99; 40. Reg. No. 3,305.

Pat. 2,280,559. DIRECTION SIGNAL FOR VEHICLES. Patented Apr. 21, 1942. The principal purpose of this device is to provide a clearly visible direction signal for day or night use. It consists of an oblong box with an open slot in its front wall through which can be seen either one of a pair of pivotally mounted right or left signal arms. These arms are illuminated by a small bulb whenever a solenoid is actuated by pressing one of three buttons (right, left or neutral) mounted on the steering wheel or instrument panel. Advantage of the uncovered opening is that the sun's rays cannot produce the glare which would obscure the signal if the opening were glass covered. (Owners) DeWill G. Vaughn and W. Griffith Purcell. Address correspondence to W. Griffith Purcell, Mutual Bldg., Richmond, Va. Group 38—31. Reg. No. 3,306.

Pat. 2,209,809. MAGNETIC HOLDING MEANS. Patented July 30, 1940. Door structure may be held closed or opened by means of a pair of opposing magnets or a permanent magnet and a magnetically permeable material. Both parts are concealed from view, the magnet being threaded into a bore so that it does not project and is also held in place by a screw. The magnetically permeable material consists of a number of plates secured to the door frame. Adaptable to cupboards, cabinets, etc. (Owner) Walter E. Burton, 1032 Florida Ave., Akron 14, Ohio. Groups 33—59—99; 40. Reg. No. 3,307.

Pat. 2,397,674. SPINNING TOY. Patented Apr. 2, 1946. Toy, made from inexpensive thin metal, cardboard, or plastic, may also be used as an advertising medium. Several forms are illustrated, one shaped like a butterfly. Another form is of such simplicity that its outline may be printed on an ordinary cereal package and the parts (two in number) subsequently cut out and assembled. Double strands of cord are then attached, twisted, and pull exerted to spin toy. As it spins parts of letters, pictures, etc., printed thereon blend to form completed words or pictures. (Owner) Harry A. Loomis, 2419 Ocean View Ave., Los Angeles 5, Calif. Group 39—41—93. Reg. No. 3,308.

Pat. 2,036,328. TOY. Patented Apr. 7, 1936. Toy, in the form of a fly, June bug or other winged insect, is provided with wheels and so constructed that when traveling over the ground or on tracks wings move up and down and eyes and parts of abdomen intermittently light up. Toy may be driven by a spring motor and have a dry cell battery for lighting bulbs or it may be provided with an electric motor connected to a suitable source of power. (Owner) Joseph R. Furey, Box 452, Avonmore, Pa. Groups 39—41—81; 40. Reg. No. 3,309.

Pat. 2,311,043. ROPE SWIVEL AND CLAMP. Patented Feb. 16, 1943. Consists of a pair of spaced parallel arms with a yoke and removable bolt on one end and an integral cup-shaped socket having a tapering lower portion forming a neck with an axial passage on the other end. A rotatable, inverted pear-shaped member with a stem is removably positioned in socket and has a bore forming a loop into which the end of a steel rope is easily and detachably fastened with binding screws and a removable block engaging rope. Provision is made to prevent axial movement of the rotatable member in socket. Suitable bearings are also provided. (Owner) Joseph R. Furey, Box 452, Avonmore, Pa. Group 35—69. Reg. No. 3,310.

Pat. 2,344,808. CLEVIS JOINT. Patented Mar. 21, 1944. Joint may be used with automobile braking systems for connecting two rods together. Rattling is reduced to a minimum and play resulting from wear automatically taken up. The arms of a clevis integrally formed on end of one rod have eyes for receiving a bolt to couple the eyed end of another rod. A bowed or coil spring presses and holds the coupled rod tightly against the lower arm. (Co-owners) Francis W. N. Duffield and Patrick J. H. Riley. Address correspondence to Smith, Michael & Gardiner, Woodward Bldg., Washington, D. C. Groups 33—72; 38—31. Reg. No. 3,311.

Pat. 2,038,304. METAL BLOWING PROCESS. Patented Apr. 21, 1936. Hollow metal tubes, hollow billets, or sheet metal, while confined in a cold, sealed die may be subjected to the explosive force of steam, an exploding powder charge, or other high pressure medium, to expand and press the metal into depressions in the walls of a suitable die to impart desired shape. In the method of working a metal tube, for example, an expansible (and contractible) core made in two sections is inserted into tube and expanded, both tube and core being pre-heated to high temperature and placed in die, heat from core maintaining tube at high temperature. Water then introduced into core quickly changes into steam, and exerts expansive force. Core is easily removed from tube "freezing" being avoided. (Owner) Alexander J. Middler, 15068 Littlefield Ave., Detroit 27, Mich. Group 35—42. Reg. No. 3,312.

Pat. 2,384,950. NONDEAD CENTERING CRANK ACTUATING MECHANISM. Patented Sept. 18, 1945. Four-wheel vehicle of the type used by children for amusement or exercise purposes has a single-plane two-throw crankshaft as the driving medium. Movement of vehicle in either a forward or rearward direction is accomplished by pressure upon a pair of foot pedals. A hand lever may be shifted so

that crankshaft will rotate in either a clockwise or counter-clockwise direction. (Owner) Alexander J. Middler, 15068 Littlefield Ave., Detroit 27, Mich. Group 39—43. Reg. No. 3,313.

Pat. 2,194,564. TOY SUBMARINE. Patented Mar. 26, 1940. Group 39—41. Reg. No. 3,314.

Pat. 2,243,568. TOY SUBMARINE. Patented May 27, 1941. Group 39—41. Reg. No. 3,315.

The two patents listed above relate to a buoyant toy submarine which will intermittently dive as it travels forward and then as speed decreases cruise until power of a spring motor is expended. Toy cruises, submerges and surfaces at a steep angle. In Patent 2,194,564, laterally extending fins near the propeller are rotated through the arc of a circle at predetermined intervals to control diving. In Patent 2,243,568 control is provided so that after toy submerges and assumes a predetermined angle propeller is automatically and temporarily stopped until toy surfaces. Buoyancy is also varied by having compressed air and water automatically displace each other in a buoyancy chamber. (Owner) Alexander J. Middler, 15068 Littlefield Ave., Detroit 27, Mich.

Pat. 2,389,899. BUILDING STRUCTURE. Patented Nov. 27, 1945. Relates to prefabricated metallic building units consisting of a series of elongated elements (such as pipes) connector plates, and special fittings, which may be easily assembled to form the rigid framework of a building, shed, bridge, etc. The use of threaded pipes is almost eliminated and there are no threads in the plates. (Owner) Leonard Deddo, 7362 Greenview Ave., Chicago, Ill. Group 33—81. Reg. No. 3,316.

Pat. 2,396,666. CARRIER PROJECTILE. Patented Mar. 19, 1946. Relates to a projectile used in throwing a line to a ship in distress. Extending arms, clamped to the muzzle of a gun, constitute the mount for a ring attached to a line to be shot. Within the shell, and lying in the explosive, are a pair of pivotally connected hooks attached to the rear end of the projectile. When the projectile is fired, the hooks spread apart and connect with the ring which is attached to a line wound on the usual supply spool. (Owner) Frank Larvick, 26 East 24th St., Chicago Heights, Ill. Group 33—12—X2. Reg. No. 3,317.

Pat. 2,395,343. WELDING ROD HOLDER. Patented Feb. 19, 1946. A removable hook-shaped clamping head for a welding rod holder is threadedly attached in hose at end of socket member. By turning handle the end of clamping pin and the inside of clamping head are brought together so a welding rod can be clamped and firmly held between them. This construction allows the head to be encased within a hood of insulating material with only the inside of hook member and free end of the pin exposed. (Owner) The Kaydon Engineering Corp., McCracken St., Muskegon, Mich. Group 36—19. Reg. No. 3,318.

Pat. 2,395,426. COMBINED COUPLING FOR RAILWAY VEHICLES AND THE LIKE. Patented Feb. 26, 1946. Provides combined pneumatic and electrical coupling for use between cars of railway trains, etc. Includes hose coupling of conventional design and electrical connector formed integrally therewith, provided with mating segmental flanges for engagement and disengagement with hose coupling by rotation through an angle of less than one-half turn. Connections unaffected by vibration or rough handling. (Owner) Joseph J. Petrovich, 1053 Brunswick Ave., Trenton 8, N. J. Group 35—69. Reg. No. 3,319.

Pat. 2,399,100. LOW ALTITUDE PARACHUTE. Patented Apr. 23, 1946. A metal container having gas under pressure, houses a main parachute and a pilot parachute. Wearer opens a spring pressed air valve causing pilot parachute to be released, which acts to pull main parachute from container. Pressure gauge on container indicates whether pressure is sufficient to discharge parachute from holder. Container may be used as float should wearer land on water. (Owner) Uriah H. Carr, % Ernest Jones, 1248 Washburn Ave., Chicago, Ill. Group 37—21. Reg. No. 3,320.

Pat. 2,399,556. FIRE EXTINGUISHER. Patented Apr. 30, 1946. For installation in high pressure fire extinguishing systems. Employs a chemical such as carbon tetrachloride and consists of a hollow body which supports a fragile glass bowl and a springed hammer held by a fusible link. Hammer is released when temperature reaches 165° F., breaking bowl, whereupon a fine spray is discharged. (Owner) James Knox Lumbar, La Junta, Colo. Group 39—99. Reg. No. 3,321.

Pat. 2,109,408. VEHICLE DIRECTION SIGNAL. Patented Feb. 22, 1938. An automatic signal device for automobiles which indicates left and right turns upon slight rotation of steering post. Turning of steering post, while in straightaway, does not affect signal device, if accelerator is depressed. (Owners) S. Fenner Adam, Robert G. Adam, and Florence S. Adam. Address correspondence to S. Fenner Adam, 54 Lake, Oak Park, Ill. Group 38—31. Reg. No. 3,322.

Pat. 2,180,733. LIQUID CONTAINER WITH ELECTRIC HEATING MEANS. Patented Nov. 21, 1939. Lower bowl of glass vacuum-type coffee maker is placed on an electric stove so designed that the sides of the vessel rather than the bottom are in contact with the heating elements. The hollow heating coil is interrupted by the insertion of a solid portion of relatively higher thermal conductivity. The expansion of this portion controls a switch so that the source of heat is automatically disconnected when the maximum temperature has been reached, thus preventing boiling away of the coffee or damage to the vessel. "On" position of the switch depends on manual control. (Owner) Clarence B. Fowler, 607 Alabama Ave., S. E., Washington 20, D. C. Group 36—21. Reg. No. 3,323.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 13, 1946

[VOL. 589. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 469,960. FLOYD R. MARSH, doing business as Marsh Fur Farm, Portland, Oreg. Filed May 5, 1944.

IMPERIAL

FOR LIVE MINK SOLD AS BREEDING STOCK.
Claims use since Aug. 20, 1943.

Ser. No. 483,437. MUTATION MINK BREEDERS ASSOCIATION, Elkhorn, Wis. Filed May 16, 1945.

Royal Koh-i-nûr

FOR MINK PELTS.
Claims use since Jan. 21, 1945.

Ser. No. 487,915. PUGET SOUND PULP & TIMBER CO., Bellingham, Wash. Filed Sept. 1, 1945.

CELLUFLOC

FOR MATERIAL USED AS A FILLER IN PLASTICS AND IN THE MANUFACTURE OF WELDING RODS USED IN ARC-WELDING, AS A BODY FORMING MATERIAL FOR THE COMPOUND IN WHICH THE STEEL ROD IS ENCASED, AND AS A SIMPLE MOLDING MATERIAL MIXED WITH SAWDUST OR OTHER MATERIAL IN THE MOLDING OF DOLLS OR MECHANICAL UNITS AS DRAWER FRONTS, REFRIGERATOR DOORS, ETC.
Claims use since Aug. 10, 1943.

Ser. No. 493,005. HOLMES-DARST COAL CORPORATION, Knoxville, Tenn. Filed Dec. 10, 1945.

BLACK JOE COAL

The word "Coal" is disclaimed apart from the mark.
FOR COAL.
Claims use since Sept. 20, 1921.

CLASS 2

RECEPTACLES

Ser. No. 470,235. LOUIS WILLIAM SCHATZ, doing business as General Plastics Manufacturing Co., South Tacoma, Wash. Filed May 13, 1944.

DURALAST

FOR PLASTIC CONTAINERS—NAMELY, TRAYS, DISHES, AND BOXES.
Claims use since Apr. 14, 1944.

Ser. No. 489,335. WILLIAM W. MCKINNEY, doing business as Telstop Manufacturing Co., Mount Healthy, Ohio. Filed Oct. 3, 1945.

TELSTOP

FOR METAL SIGNALS FOR RURAL MAIL BOXES.
Claims use since Nov. 29, 1944.

Ser. No. 489,981. PLASTRON, INC., New York, N. Y. Filed Oct. 15, 1945.

Plastron

FOR COSTUME BAGS, GARMENT BAGS, LINGERIE BAGS, BLANKET BAGS, AND FOOD STORAGE BAGS.
Claims use since Aug. 1, 1945.

Ser. No. 490,809. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Oct. 31, 1945.



The word "Golden" is disclaimed apart from the mark.
FOR UNFILLED VANITY CASES, UNFILLED COMPACTS, AND UNFILLED LIPSTICK HOLDERS MADE OF BASE METALS, LEATHER, AND PLASTIC MATERIALS.
Claims use since Sept. 11, 1944.

Ser. No. 490,920. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Nov. 2, 1945.

PARCHLINED

FOR WATERPROOF BAGS OF FABRIC WITH LINERS.
Claims use since Jan. 1, 1936.

Ser. No. 491,056. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed Nov. 5, 1945. Under section 5b of the act of 1905, as amended in 1920 as to "Bemis".

BEMIS A

FOR FABRIC BAGS AND SACKS.
Claims use since 1903.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 483,287. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio. Filed May 12, 1945.

KEYPAK

FOR LEATHER KEY HOLDERS.
Claims use since September 1941.

Ser. No. 486,885. J. B. BROOKS & CO. LTD., Birmingham, England. Filed Aug. 8, 1945.



ANTLER

FOR TRUNKS, PORTMANTEAUS, TRAVELING CASES, SUIT CASES, HANDBAGS, SHOPPING BAGS MADE OF CLOTH AND LEATHER, MUSIC CASES, DISPATCH CASES, KNAPSACKS, PORTFOLIOS, AND POCKET-BOOKS.
Claims use since 1930.

Ser. No. 494,968. GOLDSMITH BROTHERS MANUFACTURING CO. INC., New York, N. Y. Filed Jan. 18, 1946.

SHU-MATE

FOR LADIES' HANDBAGS.
Claims use since Jan. 16, 1946.

Ser. No. 494,978. N. PORTER SADDLE AND HARNESS COMPANY, Phoenix, Ariz. Filed Jan. 18, 1946.

Arizona Roper

The word "Arizona" is disclaimed apart from the mark.
FOR MARTINGALES.
Claims use since Dec. 4, 1945.

Ser. No. 496,163. ROSENBERG BROTHERS, doing business as Ken Products, Boston, Mass. Filed Feb. 7, 1946.

KEN

FOR LEATHER GOODS—NAMELY, WALLETS, TRAVELING CASES, KEY CASES, AND MANICURE CASES SOLD IN TRADE EMPTY.
Claims use since July 1945.

Ser. No. 499,096. ELIZABETH ARDEN SALES CORPORATION, New York. N. Y. Filed Mar. 28, 1946.

DONKEY BAG

The word "Bag" is disclaimed apart from the mark.
FOR LADIES' HANDBAGS, AND SHOULDER BAGS, OF LEATHER, FABRIC, PLASTIC, AND COMBINATIONS THEREOF.
Claims use since Feb. 1, 1946.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 482,194. STANLEY R. BOCCHINO, doing business as Davis Soap Company, San Francisco, Calif. Filed Apr. 16, 1945.

pdq

FOR SOAP AND MECHANICS' CLEANSER.
Claims use since Sept. 20, 1923.

Ser. No. 487,681. LA FRANCE DRY CLEANERS, Youngstown, Ohio. Filed Aug. 28, 1945.

French-Tex

No claim is made to the word "French" apart from the mark.
FOR DRY CLEANING PREPARATION.
Claims use since Dec. 10, 1944.

Ser. No. 493,118. GEORGE E. GRIGG, JR., Burlingame, Calif. Filed Dec. 12, 1945.

ATOMO

FOR HAND SOAP.
Claims use since Nov. 10, 1945.

Ser. No. 494,649. BEAU BRUMMEL POLISH CORP., Brooklyn, N. Y. Filed Jan. 12, 1946.

BEAU BRUMMEL

FOR SHOE POLISH.
Claims use since March 1920.

Ser. No. 495,057. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.



The mark consists of the picture of Mrs. Tim Morris, professionally known as Mary Gardel, consent given.
FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,058. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"PLATINE"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,066. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"SUPERSTITION"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,069. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"SYMBOLE"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,076. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"ZODIAC"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,078. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"ZODIACAL"

FOR TOILET SOAPS.
Claims use since Dec. 31, 1945.

Ser. No. 495,127. CHARLES BIRD KEACH, doing business as Kemo Textile Products Co., Providence, R. I. Filed Jan. 21, 1946.

DOVE

FOR WASHING POWDERS.
Claims use since Dec. 27, 1945.

Ser. No. 495,169. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 22, 1946.

JACK OF HEARTS

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

Ser. No. 495,287. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 24, 1946.

KING OF HEARTS

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

Ser. No. 495,295. J. I. HOLCOMB MFG. CO., Indianapolis, Ind. Filed Jan. 24, 1946.

WET-MOR

FOR AUTOMOTIVE AND THE LIKE SHAMPOO MATERIAL.
Claims use since Nov. 21, 1945.

Ser. No. 495,300. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 24, 1946.

PRESAGE

FOR TOILET SOAPS.
Claims use since Jan. 21, 1946.

Ser. No. 495,303. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 24, 1946.

SABOTAGE

FOR TOILET SOAPS.
Claims use since Jan. 21, 1946.

Ser. No. 495,309. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 24, 1946.

UTOPIE

FOR TOILET SOAPS.
Claims use since Jan. 21, 1946.

Ser. No. 495,312. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 24, 1946.

VENDETTA

FOR TOILET SOAPS.
Claims use since Jan. 21, 1946.

Ser. No. 495,375. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 25, 1946.

JACK OF CLUBS

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

Ser. No. 495,376. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 25, 1946.

JACK OF SPADES

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

Ser. No. 495,468. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 26, 1946.

JACK OF DIAMONDS

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

CLASS 5

ADHESIVES

Ser. No. 490,075. NATIONAL STARCH PRODUCTS INC., New York, N. Y. Filed Oct. 17, 1945.

LOAD-LOK

FOR RESIN AND STARCH ADHESIVES.
Claims use since Sept. 27, 1945.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 474,683. VINCENT VISCUSO, McKeesport, Pa. Filed Sept. 27, 1944.

VISCUSO'S SKINCUO

No claim is made to applicant's surname "Viscuso's" apart from the mark.
FOR HEALING SALVE FOR THE TREATMENT OF RINGWORMS, POISON IVY, CUTS, BRUISES, BITES, STINGS, CHILLBLAINS, ECZEMA, ATHLETE'S FOOT, GALDS, AND BURNS.
Claims use since March 1943.

Ser. No. 483,025. WILLIAM J. MIMS, doing business as Astoria Products Company, Birmingham, Ala. Filed May 5, 1945.

LUCKY SEVEN

FOR SACHET POWDER, TOILET WATER, DEODORANT, PRESSING OIL, TALCUM POWDER, PERFUME, AND HAIR DRESSING.
Claims use since January 1930.

Ser. No. 487,831. ZADEK FELDSTEIN CO., INC., New York, N. Y. Filed Aug. 31, 1945.

SNOW BABY

FOR POWDER FOR USE AS A RINSE FOR BABY GARMENTS.
Claims use since March 1942.

Ser. No. 488,971. PEERLESS PHOTO PRODUCTS, INC., New York, N. Y. Filed Sept. 25, 1945.

TRANSPHOTO

FOR DEVELOPING, FIXING, AND TRANSFERRING BATH CHEMICALS.
Claims use since May 8, 1942.

Ser. No. 489,100. CARBOROSE COMPANY, Brooklyn, N. Y. Filed Sept. 28, 1945.

CARBOROSE

The drawing is lined for the color red.
FOR FUNGICIDAL PREPARATION FOR TREATING ATHLETE'S FOOT AND SIMILAR DISORDERS.
Claims use since Oct. 18, 1941.

Ser. No. 489,309. ANODEX LABORATORIES, INC., Ventnor City, N. J. Filed Oct. 3, 1945.

ANOTOP

FOR TOPICAL SURFACE ANESTHETIC FOR DENTAL USE.
Claims use since January 1939.

Ser. No. 489,627. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Oct. 8, 1945.

Myringacaine

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF THE EAR.
Claims use since Mar. 30, 1945.

Ser. No. 490,754. THE GLIDDEN COMPANY, doing business as A. Wilhelm Company, Cleveland, Ohio, and Reading, Pa. Filed Oct. 30, 1945.

BUBBLE MAGIC

WITH A WAVE OF THE WAND

The words "Bubble" and "With a Wave of the Wand" are disclaimed apart from the mark.
FOR BUBBLE FORMING COMPOSITION OF MATTER FOR AMUSEMENT PURPOSES.
Claims use since Sept. 6, 1945.

Ser. No. 491,374. GEORGE TOLIS, Spencer, Mass. Filed Nov. 9, 1945.

Geo-tol

FOR SALVE AND OINTMENT FOR SKIN IRRITATIONS, SUCH AS INSECT BITES, MINOR CUTS, BURNS AND POISON IVY.
Claims use since Oct. 31, 1945.

Ser. No. 491,851. LANCOME S. A., Paris, France. Filed Nov. 19, 1945.

LANCÔME

FOR PERFUMES AND ROUGES.
Claims use since May 6, 1935.

Ser. No. 491,853. LANCOME S. A., Paris, France. Filed Nov. 19, 1945.

NUTRIX

FOR PERFUMES AND ROUGES.
Claims use since Dec. 28, 1935.

Ser. No. 491,996. PAINT ENGINEERS, INCORPORATED, New York, N. Y., and Hawthorne, N. J. Filed Nov. 21, 1945.



The lining appearing on the drawing represents shading.
FOR FUNGUS INHIBITING AND IMPREGNATING CHEMICALS.
Claims use since Nov. 5, 1945.

Ser. No. 492,111. THE TAYTON COMPANY, Chicago, Ill. Filed Nov. 23, 1945.

"Snooties"

FOR DISPOSABLE TISSUES IMPREGNATED WITH FACE POWDER.
Claims use since Oct. 22, 1945.

Ser. No. 492,342. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Nov. 28, 1945.

DINITROSOL

FOR INSECTICIDES AND FUNGICIDES.
Claims use since Aug. 13, 1945.

Ser. No. 493,871. HORTON & CONVERSE, Los Angeles, Calif. Filed Dec. 24, 1945.

BENZO-GUAIATONE

No claim is made to the word "Benzo" apart from the mark.
FOR PREPARATIONS USED IN THE TREATMENT OF SPASMODIC COUGH, HICCOUGH, WHOOPING COUGH, ETC.
Claims use since May 1, 1936.

Ser. No. 494,287. NETTIE ROSENSTEIN, INC., New York, N. Y. Filed Jan. 4, 1946.

Odalisque

FOR PERFUME AND COLOGNE.
Claims use since Jan. 2, 1946.

Ser. No. 494,366. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Jan. 5, 1946.

'JELCALITE'

FOR VITAMIN AND MINERAL PREPARATION FOR METABOLIC DEFICIENCY THERAPY.
Claims use since Dec. 17, 1945.

Ser. No. 494,371. SUN OIL COMPANY, Philadelphia, Pa. Filed Jan. 5, 1946.

CIRCOSOL

FOR PLASTICIZER FOR RUBBER.
Claims use since Nov. 13, 1943.

Ser. No. 494,571. PARFUMS CHARBERT, INC., New York, N. Y. Filed Jan. 10, 1946.

SKYLINE

FOR GENTLEMEN'S TOILETRIES—NAMELY, EAU DE COLOGNE, AFTER SHAVING LOTION, TALCUM POWDER, FACE POWDER, TOILET POWDER, HAIR LOTION, HAIR POMADE, AND DEODORANT.
Claims use since 1933.

Ser. No. 494,694. JOHN N. McMATH CO., doing business as Lloyd-Sargent Co., New Rochelle, N. Y. Filed Jan. 12, 1946.

LLOYD'S
Spirit of Youth

No claim is made to the word "Lloyd's" apart from the mark.
FOR BUBBLE BATH PREPARATION, BATH CRYSTALS, BATH OILS, BATH POWDER IN MITTS AND BOXES, DEODORANT POWDER IN MITTS, LEG MAKE-UP LOTION, TOILET WATER, SACHET POWDER, COLOGNE, AND HAND LOTION.
Claims use since 1931.

Ser. No. 494,713. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Jan. 12, 1946.

'DELPHYNOID'

FOR SEDATIVE AND ANTISPASMODIC SUPPOSITORIES.
Claims use since Jan. 7, 1946.

Ser. No. 494,793. DAVID KAYE, doing business as Kaye Laboratories, Brooklyn, N. Y. Filed Jan. 15, 1946.

KABEX

FOR VITAMINIC PREPARATIONS TO BE USED AS PRESCRIBED BY A PHYSICIAN.
Claims use since 1939.

Ser. No. 494,802. J. K. SPIEGEL, doing business as M. Spiegel Medicine Co., Albany, N. Y. Filed Jan. 15, 1946. Under 10-year proviso.

JONES'



FOR LINIMENT USED AS A COUNTER-IRRITANT AND FOR RELIEF OF MUSCULAR SORENESS.
Claims use since Feb. 26, 1869.

Ser. No. 494,847. IRRESISTIBLE, INC., New York, N. Y. Filed Jan. 16, 1946.

REEL MAN

The word "Man" is disclaimed apart from the mark.
FOR MEN'S COLOGNES.
Claims use since Jan. 7, 1946.

Ser. No. 494,891. JOHN DEANS, doing business as Cindex Company, Eddystone, Pa. Filed Jan. 17, 1946.

CINDEX

FOR PREPARATIONS FOR THE TREATMENT OF COLDS AND COUGHS DUE TO COMMON COLDS.
Claims use since Oct. 16, 1944.

Ser. No. 494,921. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa. Filed Jan. 17, 1946.

MICROMUL

FOR EMULSIONS OF WAXES CHIEFLY OF THE MICROCRYSTALLINE VARIETY.
Claims use since Dec. 14, 1945.

Ser. No. 495,415. SOCIÉTÉ À RESPONSABILITÉ LIMITÉE: CARVEN, Paris, France. Filed Jan. 25, 1946.

CARVEN

FOR PERFUMES.
Claims use since Sept. 12, 1945.

Ser. No. 495,561. WILLIAM E. WOLFF, doing business as Daz-L-Dent Laboratories, Kansas City, Mo. Filed Jan. 28, 1946.



"Dent" and "A Perfect Tooth Powder" are disclaimed except as used in connection with the other features of the mark.
FOR TOOTH POWDER.
Claims use since June 1, 1933.

Ser. No. 495,635. FRED L. SMITH, Paola, Kans. Filed Jan. 29, 1946.

RED BALL

The word "Red" is disclaimed apart from the mark. The drawing is lined for the color red.
FOR INSECTICIDES.
Claims use since June 24, 1944.

Ser. No. 495,639. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Jan. 29, 1946.

Solulexin

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN AND NUTRITIONAL DISORDERS AND DEFICIENCIES.
Claims use since Nov. 20, 1945.

Ser. No. 495,640. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Jan. 29, 1946.

Isonate

FOR MEDICINAL PREPARATION FOR USE AS AN ALKALIZER.
Claims use since Nov. 20, 1945.

Ser. No. 495,641. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Jan. 29, 1946.

Plazmoid

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VARIOUS TYPES OF SHOCK AND HYPOPROTEINEMIA.
Claims use since Apr. 4, 1944.

Ser. No. 495,642. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Jan. 29, 1946.

Unitabs

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN AND NUTRITIONAL DISORDERS AND DEFICIENCIES.
Claims use since Apr. 25, 1944.

Ser. No. 495,978. NORVAL W. MILES, Lincoln, Calif. Filed Feb. 4, 1946.

Sigmalin A

No claim is made to the letter "A" apart from the mark.
FOR VITAMIN PREPARATION.
Claims use since Oct. 1, 1945.

Ser. No. 495,987. PURITAN CHEMICAL COMPANY, Atlanta, Ga. Filed Feb. 4, 1946.

Odor-Out

Applicant disclaims any exclusive right to the use of the term "Odor" except in association with the term "Odor-Out."
FOR CHEMICAL PREPARATION FOR ABSORBING DISAGREEABLE ODORS.
Claims use since Jan. 3, 1944.

Ser. No. 496,037. WILLIAM J. MORRISSEY, JR., doing business as Morrissey Sales and Service Co., Newark, N. J. Filed Feb. 5, 1946.

MORRISSEY

SOOT
SCAL
SLDG
O

Applicant disclaims the surname "Morrissey," and the words "Soot" and "Scal" apart from the other features of the mark.
FOR PREPARATION FOR REMOVING AND ELIMINATION OF SOOT, SCALE, AND SLUDGE AND OTHER FOREIGN MATTER FROM STEAM BOILERS, OIL CONTAINERS, AND SIMILAR USES.
Claims use since January 1921 on "Morrissey" and lighting design; and since January 1945 on the mark presented.

Ser. No. 496,684. BARTON CHEMICAL CO., Chicago, Ill. Filed Feb. 16, 1946.

SUN-O-LENE

FOR OXIDIZING AGENTS USED IN BLEACHING COMPOUNDS AND FOR BLEACHING, DISINFECTING, AND WASHING PURPOSES.
Claims use since Mar. 26, 1945.

Ser. No. 496,696. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Feb. 16, 1946.

GENERON

FOR NORMALLY GASEOUS HALOGENATED HYDROCARBONS; NORMALLY GASEOUS CHEMICALS FOR USE IN PROPELLING PARASITICIDES AND DISPERSING THEM IN AEROSOL FORM.
Claims use since Jan. 4, 1946.

Ser. No. 496,697. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Feb. 16, 1946.

GENETRON

FOR NORMALLY GASEOUS HALOGENATED HYDROCARBONS; NORMALLY GASEOUS CHEMICALS FOR USE IN PROPELLING PARASITICIDES AND DISPERSING THEM IN AEROSOL FORM.
Claims use since Jan. 4, 1946.

Ser. No. 496,735. SMITH BROTHERS, INC., Poughkeepsie, N. Y. Filed Feb. 16, 1946.

SB

FOR COUGH DROPS.
Claims use since Jan. 1, 1874.

Ser. No. 496,924. FRED RIEHLE, New York, N. Y. Filed Feb. 19, 1946.

Shampoolin

FOR LIQUID AND CREAM SHAMPOOS.
Claims use since Feb. 1, 1946.

Ser. No. 497,359. MOHAMMED ALI, doing business as Royal Indian Cosmetic Co., Brooklyn, N. Y. Filed February 28, 1946.

ROYAL INDIAN

FOR HAIR POMADE, AFTER-SHAVING LOTION, WHITE CLEANSING CREAM, PINK VANISHING CREAM, ROSE AND ALMOND LOTION, PRESSING OIL, COLD CREAM, SKIN LOTION, FACE POWDER AND HAIR DRESSING.
Claims use since Nov. 1, 1944.

Ser. No. 497,661. JUSTIN M. FRY, doing business as J. M. Fry Company, Richmond, Va. Filed Mar. 5, 1946.

SMACKO

FOR ANTI-OXIDATION COMPOUND FOR INKS, PAINTS, AND VARNISHES.
Claims use since Nov. 2, 1945.

Ser. No. 497,690. ALLIED LABORATORIES, INC., doing business as Pitman-Moore Co., Indianapolis, Ind. Filed Mar. 6, 1946.

TENIATHANE

FOR ANTHELMINTIC TABLETS.
Claims use since Aug. 14, 1945.

Ser. No. 497,828. LOUIS R. VORIS, doing business as The Voris Laboratories, Hagerstown, Md. Filed Mar. 7, 1946.

Rust-Sol

The exclusive right to the word "Rust" apart from the association shown is disclaimed.
FOR RUST REMOVING CHEMICAL COMPOSITION.
Claims use since January 1936.

Ser. No. 497,992. CENOL COMPANY, INC., Chicago, Ill. Filed Mar. 11, 1946.

RAINBOW

FOR RAT BAITS.
Claims use since Oct. 15, 1945.

Ser. No. 498,016. M. C. MERLICH, Port Townsend, Wash. Filed Mar. 11, 1946.

Ritex

FOR ASTRINGENT FOR DIARRHETIC AILMENTS IN CATTLE, PARTICULARLY FOR THE TREATMENT OF "SCOURS" IN CALVES.
Claims use since Jan. 29, 1945.

Ser. No. 498,141. HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Mar. 13, 1946.

DEE-REX

FOR INSECTICIDE.
Claims use since Feb. 25, 1946.

Ser. No. 498,142. HUNTINGTON LABORATORIES, INC., Indianapolis, Ind. Filed Mar. 13, 1946.

SOL-U-DEE

FOR INSECTICIDE.
Claims use since Feb. 4, 1946.

Ser. No. 498,247. NIAGARA ALKALI COMPANY, Niagara Falls, N. Y. Filed Mar. 14, 1946.

Niagathal

FOR TETRACHLORO PHTHALIC ANHYDRIDE.
Claims use since Mar. 8, 1946.

Ser. No. 498,264. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 14, 1946.

Oxylite

FOR FLOUR BLEACH.
Claims use since Jan. 11, 1946.

Ser. No. 498,329. VAPOR ENGINEERING CORPORATION, Burbank, Calif. Filed Mar. 15, 1946.

TETRAVEC

FOR DEGREASING SOLVENT USED IN VAPOR CLEANING OF METAL PARTS AND THE LIKE.
Claims use since Aug. 17, 1945.

Ser. No. 498,380. ANDERSON-STOLZ PHARMACEUTICALS, INC., Kansas City, Mo. Filed Mar. 18, 1946.

NIL

FOR DEODORANT AND ANTISEPTIC IN LIQUID FORM TO BE SPRAYED DIRECTLY UPON ARTICLES TO BE TREATED AND INTO THE AIR OF ROOMS TO BE DEODORIZED.
Claims use since Feb. 12, 1946.

Ser. No. 498,389. THE BORDEN COMPANY, New York, N. Y. Filed Mar. 18, 1946.

BETANAL

FOR VAGINAL SUPPOSITORIES CONTAINING BETA LACTOSE AND BORIC ACID.
Claims use since Jan. 4, 1941.

Ser. No. 498,440. NIPA LABORATORIES, LIMITED, London, England. Filed Mar. 18, 1946.

PROGALLIN

FOR CHEMICAL SUBSTANCES, BEING ESTERS, FOR USE AS ANTIOXIDANTS IN FOODSTUFFS, IN PHARMACEUTICAL AND MEDICAL PREPARATIONS, IN OILS AND FATS (ANIMAL AND VEGETABLE), IN OINTMENTS, IN EMULSIONS, IN ESSENTIAL OILS, IN SOAPS, IN PERFUMES, AND IN COSMETIC PREPARATIONS.
Claims use since Oct. 19, 1943.

Ser. No. 498,460. STEPHEN H. RILEY, doing business as Stephen Riley Company, Los Angeles, Calif. Filed Mar. 18, 1946.

Hospitality House

FOR A BUBBLE BATH PREPARATION.
Claims use since Oct. 15, 1945.

Ser. No. 498,560. JOHN PETER WILDE, doing business as Parfums D'Artimon, New York, N. Y. Filed Mar. 19, 1946.

Clairvoyant

FOR PERFUME, TOILET WATER, AND LOTION VEGETALE.
Claims use since Nov. 18, 1943.

Ser. No. 498,561. JOHN PETER WILDE, doing business as Parfums D'Artimon, New York, N. Y. Filed Mar. 19, 1946.

Northern Lights

FOR PERFUME, TOILET WATER, AND LOTION VEGETALE.
Claims use since Nov. 18, 1943.

Ser. No. 499,064. THE MALTINE COMPANY, New York, N. Y. Filed Mar. 27, 1946.

BUFFATE

FOR ANTACID FOR THE CONTROL OF GASTRIC ACIDITY.
Claims use since Mar. 7, 1946.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 483,604. BASIC REFRACTORIES, INC., Cleveland, Ohio. Filed May 21, 1945.

ZIRAM

FOR CEMENTITIOUS AND MOLDABLE REFRACTORY PREPARATIONS SUITABLE FOR FURNACE LINING AND REPAIRING.
Claims use since June 10, 1944.

Ser. No. 491,497. NATIONAL SCREEN DOOR COMPANY, Montgomery, Ala. Filed Nov. 13, 1945.



No claim is made to the exclusive use of the representation of a door and the outline map of the United States apart from the mark.
FOR SCREEN DOORS AND SCREEN WINDOWS.
Claims use since Oct. 15, 1945.

Ser. No. 494,312. CORNELL WOOD PRODUCTS COMPANY, Milwaukee, Wis. Filed Jan. 5, 1946.

Indian Board

The word "Board" is disclaimed apart from the mark.
FOR LAMINATED INDUSTRIAL BOARDS AND WALLBOARDS MADE OF WOOD FIBRE AND/OR PAPER.
Claims use since December 1925.

CLASS 13

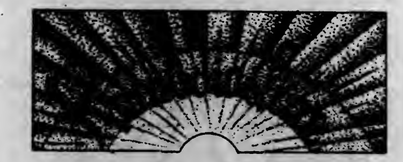
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 488,839. ROBERT H. VON AHRENS, doing business as The Revon Backing Ring and Fabricating Company, Denver, Colo. Filed Sept. 21, 1945.

Robvon

The representation of the ring is disclaimed.
FOR WELDING BACKING RINGS.
Claims use since Jan. 15, 1944.

Ser. No. 493,347. GLOBE VALVE CORPORATION, Delphi, Ind. Filed Dec. 15, 1945.



Applicant disclaims the word "Line" separate and apart from the mark.
FOR METALLIC TUB FILLERS AND VALVES FOR USE IN CONNECTION WITH CONVENTIONAL BATH-TUBS, SINKS, LAVATORIES, AND THE LIKE.
Claims use since Oct. 24, 1945.

Ser. No. 493,743. THE CHICAGO FAUCET COMPANY, Chicago, Ill. Filed Dec. 22, 1945.

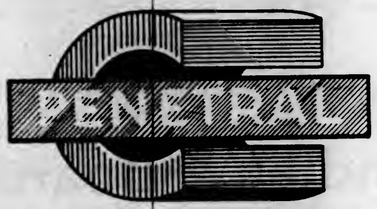
SOFTFLO

FOR AERATORS ATTACHED TO WATER FAUCETS.
Claims use since March 1938.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 477,603. FOLLSAIN METALS LTD., Lutterworth, near Rugby, England. Filed Dec. 15, 1944.



The lining shown in the drawing indicates shading only. Applicant disclaims the right to the exclusive use of the cut section of metal tube.
FOR UNWROUGHT AND PARTLY WROUGHT BASE METALS AND THEIR ALLOYS—NAMELY, MILD STEEL, PLAIN CARBON TYPE, MOLYBDENUM STEEL, NICKEL CHROME STEEL, LOW CARBON CAST IRON, AND GREY CAST IRON.
Claims use since June 1, 1935.

Ser. No. 492,033. CERRO DE PASCO COPPER CORPORATION, New York, N. Y. Filed Nov. 23, 1945.

CERRO PERU

No claim is made to the word "Peru" apart from the mark.
FOR VARIOUS METALS—NAMELY, INDIUM, LEAD, AND ZINC AND ALLOYS THEREOF.
Claims use since September 1935.

Ser. No. 493,437. EMPIRE STEEL CASTINGS, INC., Reading, Pa. Filed Dec. 17, 1945.



No claim is made to the word "Cast" apart from the mark.
FOR STEEL CASTINGS.
Claims use since Aug. 9, 1945.

Ser. No. 494,487. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Jan. 9, 1946.



FOR STEEL USED FOR DIE BLOCKS, SOW BLOCKS AND FORGED PARTS FOR DROP HAMMERS AND OTHER FORGING MACHINES.
Claims use since Aug. 21, 1922.

Ser. No. 494,488. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Jan. 9, 1946.



FOR STEEL USED FOR HARDENED AND TEMPERED DIE BLOCKS, SOW BLOCKS AND FORGED PARTS FOR DROP HAMMERS AND OTHER FORGING MACHINES.
Claims use since Aug. 21, 1922.

Ser. No. 494,489. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Jan. 9, 1946.



FOR STEEL USED FOR PISTON RODS, CRANKSHAFTS, RAMS AND FORGED PARTS FOR DROP HAMMERS AND OTHER FORGING MACHINES.
Claims use since Jan. 1, 1937.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 485,881. THE NATIONAL POLISH COMPANY, Van Wert, Ohio. Filed July 16, 1945.



FOR POLISHING AND CLEANING PREPARATIONS FOR FURNITURE, PIANOS, AND THE LIKE, PAINT AND VARNISH REMOVER, SCRATCH REMOVER, AND VARNISH.
Claims use since Mar. 15, 1940.

Ser. No. 486,767. GREAT LAKES VARNISH WORKS, INC., Chicago, Ill. Filed Aug. 6, 1945.

STIPPLETEX

FOR READY-MIXED PAINT.
Claims use since March 1926.

Ser. No. 489,563. CLOWES M. CHRISTIE, doing business as Latex Co., Los Angeles, Calif. Filed Oct. 8, 1945.

VULCABOND

FOR SYNTHETIC RUBBER BASE PAINT.
Claims use since June 1944.

Ser. No. 495,113. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Jan. 19, 1946.

PAC-TEX

FOR PLASTIC WALL COVERINGS IN THE NATURE OF PAINT.
Claims use since Oct. 3, 1945.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 488,371. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The picture shown on the drawing is fanciful.
FOR CIGARS, CIGARETTES, PIPE AND CHEWING TOBACCO.
Claims use since Aug. 23, 1945.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 487,339. LOUIS J. SILVER, doing business as Silver & Company, San Francisco, Calif. Filed Aug. 20, 1945.

ATOMIC

FOR STORAGE BATTERIES, ELECTRIC TOASTERS, ELECTRIC SAD IRONS, ELECTRIC WAFFLE IRONS, ELECTRIC FOOD MIXERS, ELECTRIC JUICE EXTRACTORS, ELECTRIC FANS, ELECTRIC VACUUM CLEANERS, RADIO RECEIVING SETS, ELECTRIC COFFEE PERCOLATORS, AND SPARK PLUGS.
Claims use since Aug. 9, 1945.

Ser. No. 489,734. GIBSON REFRIGERATOR COMPANY, Greenville, Mich. Filed Oct. 10, 1945.

UPS-A-DAISY

FOR ELECTRIC COOKING RANGES AND DEEP WELL COOKERS.
Claims use since Aug. 21, 1945.

Ser. No. 492,955. HAROLD P. RIORDAN, Dallas, Tex. Filed Dec. 8, 1945.



FOR ELECTRICAL FIRE ALARM APPARATUS.
Claims use since Nov. 1, 1945.

Ser. No. 493,963. HUDSON AMERICAN CORPORATION, New York, N. Y. Filed Dec. 28, 1945.

CORSAIR

FOR MARINE RADIO TELEPHONE UNITS AND PARTS THEREOF.
Claims use since Nov. 19, 1945.

Ser. No. 493,964. HUDSON AMERICAN CORPORATION, New York, N. Y. Filed Dec. 28, 1945.

PRIVATEER

FOR MARINE RADIO TELEPHONE UNITS AND PARTS THEREOF.
Claims use since Oct. 1, 1945.

Ser. No. 493,965. HUDSON AMERICAN CORPORATION, New York, N. Y. Filed Dec. 28, 1945.

SEAFARER

FOR MARINE RADIO TELEPHONE UNITS AND PARTS THEREOF.
Claims use since Nov. 19, 1945.

Ser. No. 495,025. GENERAL FLOORCRAFT, INC., New York, N. Y. Filed Jan. 19, 1946.

GF

FOR ELECTRIC FLOOR CLEANING AND MAINTENANCE MACHINES AND PARTS THEREOF FOR BRUSHING, BUFFING, AND POLISHING FLOORS.
Claims use since August 1945.

Ser. No. 496,754. LELAND J. ARMS, San Francisco, Calif. Filed Feb. 18, 1946.

MAGAZINE

FOR SOUND RECORDINGS OF THE MAGNETIZED WIRE TYPE.
Claims use since Jan. 23, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 470,325. ANTHONY J. WYMAN, Orange, N. J. Filed May 16, 1944.

"SILENT PRO"

FOR GOLF BALLS, GOLF BAGS, AND WRIST BAND GRIPS USED WITH GOLF CLUBS.
Claims use since May 1942.

Ser. No. 482,252. MAXING PRODUCTS CO., New York, N. Y. Filed Apr. 17, 1945.

DOLL OF MAXING THE MONTH

No claim is made to the expression "Doll of the Month" apart from the mark.
FOR DOLLS.
Claims use since Apr. 4, 1945.

Ser. No. 484,022. HOBBY HILL, Chicago, Ill. Filed May 31, 1945.

"GOOGLE-OOGLE"

FOR PULL TOYS HAVING A PLURALITY OF REMOVABLE COLORED PEGS HAVING PRINTED OR STAMPED THEREON COMIC CHARACTERS.
Claims use since Aug. 1, 1944.

Ser. No. 484,024. HOBBY HILL, Chicago, Ill. Filed May 31, 1945.

"SHORTIE"

FOR TOYS IN THE FORM OF ANIMALS HAVING JACK-IN-THE-BOX FEATURES IN THE BODIES THEREOF AND THE HEADS OF WHICH ARE MOVABLE IN VARIOUS DIRECTIONS.
Claims use since Aug. 1, 1944.

Ser. No. 489,228. JAMES G. MANNING, doing business as The Fishburger Company, Gardner, Kans. Filed Oct. 1, 1945.

FISH BURGER

No claim is made to the word "Fish" and the representation of a fish apart from the mark.
FOR CANNED FISH BAIT.
Claims use since Aug. 20, 1944.

Ser. No. 490,932. JOHN R. CRISSMAN, Detroit, Mich. Filed Nov. 2, 1945.

HEDGE HOPPER

FOR SPRING MOUNTED FOOT DEVICES USED FOR EXERCISE AND AS A TOY.
Claims use since Oct. 18, 1945.

Ser. No. 497,787. PAULA PRODUCTS, New York, N. Y. Filed Mar. 6, 1946.

"ROOM-PAKT"

FOR MINIATURE TOY FURNITURE SETS AND TOY HOUSES.
Claims use since Jan. 7, 1946.

Ser. No. 498,022. NORTHWESTERN KITE CO., Minneapolis, Minn. Filed Mar. 11, 1946.

CLOUD BUSTER

FOR TOY KITES.
Claims use since Jan. 2, 1946.

Ser. No. 500,634. STATLER MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 20, 1946.

INVADER

FOR TOY PISTOLS.
Claims use since Mar. 12, 1944.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 466,324. THE DEFIANCE ALLOYED PRODUCTS CO., Defiance, Ohio. Filed Jan. 6, 1944.

DAPCO

FOR DIAPHRAGM COMPRESSORS UTILIZED IN COMPRESSING AIR, AND FOR PARTS THEREOF.
Claims use since Aug. 31, 1942.

Ser. No. 480,164. CONTINENTAL CAN COMPANY, INC., New York, N. Y. Filed Feb. 24, 1945.

FOR CAN MAKING MACHINES.
Claims use since Feb. 6, 1945.

Ser. No. 484,703. RITE-WAY PRODUCTS COMPANY, Chicago, Ill. Filed June 18, 1945.

MICRO-THREAD

FOR PULSATORS FOR MILKING MACHINES.
Claims use since May 26, 1945.

Ser. No. 487,178. THE DOALL COMPANY, Des Plaines, Ill. Filed Aug. 17, 1945.

DoALLoy

The word "Alloy" is disclaimed apart from the mark.
FOR METAL WORKING AND FORMING DIES, MOLDING DIES FOR MOLDING POWDERED METAL, AND CUTTING TOOLS FOR TURNING, MILLING, DRILLING, BORING, THREADING, AND PLANING MACHINES AND PARTS OF SUCH TOOLS.
Claims use since Nov. 8, 1944.

Ser. No. 489,670. JOE LOWE CORPORATION, New York, N. Y. Filed Oct. 9, 1945.

VITAMATIC

FOR POWER DRIVEN, ENDLESS CHAIN CONVEYOR DOUGHNUT COOLERS.
Claims use since Aug. 21, 1945.

Ser. No. 494,753. LACY OIL TOOL COMPANY, Los Angeles, Calif. Filed Jan. 14, 1946.

BULL DOG

FOR AIR BALANCED ACTUATING HEADS FOR DEEP WELL PUMPS.
Claims use since Aug. 1, 1934.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 484,628. WERNER A. GIESEKE, doing business as The Autotron Company, Danville, Ill. Filed June 16, 1945.

AUTOTRON

FOR ELECTRONIC INSPECTION MACHINE IN WHICH VARIATIONS IN THE SIZE OR SHAPE OF OBJECTS ARE DETECTED AND CHECKED BY SUCCESSIVELY POSITIONING THE OBJECTS IN AN OPTICAL SYSTEM THAT IS ASSOCIATED WITH AN ELECTRONIC CIRCUIT.
Claims use since Apr. 1, 1945.

Ser. No. 485,214. ERNEST W. GOLDBERG, doing business as Golde Manufacturing Company, Chicago, Ill. Filed June 29, 1945.

FILMATIC

FOR STILL PICTURE PROJECTORS, SLIDE AND STRIP FILM PROJECTORS AND PARTS THEREFOR, STILL PICTURE SLIDES AND MOUNTINGS THEREFOR, FILM VIEWERS, AND STEREOSCOPIC PROJECTORS.
Claims use since January 1940.

Ser. No. 485,215. ERNEST W. GOLDBERG, doing business as Golde Manufacturing Company, Chicago, Ill. Filed June 29, 1945.

MANUMATIC

FOR STILL PICTURE PROJECTORS, SLIDE AND STRIP FILM PROJECTORS AND PARTS THEREFOR, STILL PICTURE SLIDES AND MOUNTINGS THEREFOR, FILM VIEWERS, AND STEREOSCOPIC PROJECTORS.
Claims use since January 1934.

Ser. No. 487,294. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa., and Baltimore, Md. Filed Aug. 18, 1945.

-PFX-

The shading shown on the drawing represents a red coloring of the letters forming the mark.
FOR X-RAY APPARATUS FOR MAKING MINIATURE PHOTOGRAPHS OF AN IMAGE CAST ON A FLUORESCENT SCREEN BY THE PASSAGE OF AN X-RAY BEAM THROUGH AN OBJECT AND NOW REFERRED TO IN THE ART AS PHOTOFLUOROSCOPIC FILMS.
Claims use since June 6, 1945.

Ser. No. 491,535. WAUGH EQUIPMENT COMPANY, New York, N. Y. Filed Nov. 13, 1945.

Gradientometer

FOR APPARATUS FOR MEASURING MAGNETIC FIELDS, CONSISTING OF A HOUSING, MAGNETIC-FIELD-MEASURING APPARATUS IN THE HOUSING, AND AN ELECTRIC METER CONNECTED TO THE MAGNETIC-FIELD-MEASURING APPARATUS.
Claims use since Jan. 26, 1945.

Ser. No. 492,410. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa., and Baltimore, Md. Filed Nov. 29, 1945.

Fluorovue

FOR X-RAY APPARATUS FOR MAKING MINIATURE PHOTOFLUOROSCOPIC FILMS.
Claims use since June 14, 1945.

Ser. No. 493,484. CARL DUDLEY, Beverly Hills, Calif. Filed Dec. 18, 1945.

Carl Dudley's
CLASSROOM QUIZ!

The name "Carl Dudley's" is a facsimile signature of the applicant.
FOR SERIES OF EXCLUSIVELY PICTORIAL MOTION PICTURE FILMS.
Claims use since Nov. 24, 1945.

Ser. No. 494,230. NATIONAL RESEARCH CORPORATION, Boston, Mass. Filed Jan. 3, 1946.

ALPHATRON

FOR VACUUM OR PRESSURE GAUGE.
Claims use since June 30, 1945.

Ser. No. 495,338. JOSE SANCHIS, Newark, N. J. Filed Jan. 24, 1946.

LIQUIDMATIC
THE KING OF MEASUREMENTS

The words "Of Measurements" are disclaimed apart from the trade-mark as shown.
FOR AUTOMATICALLY OPERATED DISPENSERS ADAPTED TO BE PLACED ON BOTTLES AND OTHER CONTAINERS FOR DISPENSING MEASURED QUANTITIES OF A LIQUID.
Claims use since Oct. 15, 1945.

Ser. No. 495,413. SIMPLEX TIME RECORDER CO., Gardner, Mass. Filed Jan. 25, 1946.

Simplex

Applicant is the owner of Reg. No. 218,943.
FOR TIME STAMPS.
Claims use since 1916.

Ser. No. 496,591. A. A. A. MANUFACTURING COMPANY, Waltham, Mass. Filed Feb. 15, 1946.

SELECTOMATIC

FOR EGG CANDLING, GRADING, AND SORTING MACHINES.
Claims use since on or about Aug. 10, 1945.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 485,916. LEONARDO FURNITURE CO. INCORPORATED, New York, N. Y. Filed July 17, 1945.



The portrait forming a feature of applicant's mark is that of Leonardo Da Vinci. The word "Elegance" is disclaimed apart from the mark.
FOR LIVING ROOM, DINING ROOM, AND BEDROOM FURNITURE—NAMELY, SOFAS, LOVE SEATS; CHAIRS, NAMELY—CLUB CHAIRS, WING CHAIRS, FAN CHAIRS, BARREL CHAIRS, WINDSOR CHAIRS, OCCASIONAL CHAIRS; DINING ROOM CHAIRS—NAMELY, ARM CHAIRS AND SIDE CHAIRS; BEDROOM CHAIRS, OTTOMANS AND BENCHES; TABLES—NAMELY, DINING ROOM TABLES, END TABLES, DRUM TABLES, COFFEE TABLES, COCKTAIL TABLES, CONSOLE TABLES, NIGHT OR BEDSIDE TABLES, VANITY OR DRESSING TABLES, OCCASIONAL TABLES; BUFFETS, SERVERS, TEA WAGONS, BEDS, DRESSERS, CHESTS, BREAKFRONT CABINETS, CREDENZAS, CHINA CLOSETS, CELLARETS, BARS, HANGING SHELVES, MIRRORS, CURIO CABINETS AND SHADOW BOX CABINETS.
Claims use since 1924.

Ser. No. 491,084. FURNITURE DEVELOPMENT CO., Los Angeles, Calif. Filed Nov. 5, 1945.

Sleepona

FOR SECTIONAL DIVANS.
Claims use since Oct. 25, 1945.

Ser. No. 491,592. SPRING AIR COMPANY, Holland, Mich. Filed Nov. 14, 1945.

Sleep Center

FOR MATTRESSES AND MATTRESS SPRING UNITS.
Claims use since Mar. 29, 1945.

Ser. No. 491,757. WILLIAM INTNER COMPANY, INC., New York, N. Y. Filed Nov. 17, 1945.

LONG FELLOW

Applicant disclaims the word "Long" separately from the mark.
FOR BED SPRINGS, STUDIO COUCHES, DIVANS, AND FOLDING BEDS.
Claims use since Jan. 1, 1944.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 483,886. ANEMOSTAT CORPORATION OF AMERICA, New York, N. Y. Filed May 29, 1945.

ANEMO-LIGHT

The word "Light" is disclaimed apart from the mark.
FOR DIFFUSER TYPE VENTILATING UNITS PROVIDED WITH LIGHT FIXTURES.
Claims use since Mar. 22, 1939.

Ser. No. 483,887. ANEMOSTAT CORPORATION OF AMERICA, New York, N. Y. Filed May 29, 1945.

ILLUMIN-AIR

The word "Air" is disclaimed apart from the mark.
FOR DIFFUSER TYPE VENTILATING UNITS PROVIDED WITH LIGHT FIXTURES.
Claims use since Mar. 14, 1945.

Ser. No. 491,794. ARROWHEAD RUBBER COMPANY, Vernon, Calif. Filed Nov. 19, 1945.

AIRTRON

FOR PREFABRICATED DUCT SECTIONS FOR USE IN HEATING, VENTILATING, AND AIR-CONDITIONING APPARATUS.
Claims use since Oct. 19, 1945.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 484,120. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed June 4, 1945.

DAYCO

FOR POWER TRANSMISSION AND CONVEYOR BELTS.
Claims use since Apr. 16, 1945.

Ser. No. 490,241. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed Oct. 20, 1945.

"WELD-RITE"

FOR TIRE REPAIR MATERIALS—NAMELY CAMEL BACK, PNEUMATIC TIRE TREAD GUM, AND VULCANIZING PATCHES.
Claims use since Apr. 1, 1939.

Ser. No. 490,345. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Oct. 22, 1945.

UsCap

FOR SYNTHETIC RUBBER MATERIAL FOR RETREADING TIRES.
Claims use since Oct. 3, 1945.

CLASS 37

PAPER AND STATIONERY

Ser. No. 483,095. STAR-PEERLESS WALL PAPER MILLS, Chicago, Ill. Filed May 7, 1945.

SHADO TONES

Exclusive right to the use of the word "Tones" is not claimed apart from the mark.
FOR WALLPAPER.
Claims use since Apr. 16, 1945.

Ser. No. 484,286. WEST VIRGINIA PULP AND PAPER COMPANY, New York, N. Y. Filed June 7, 1945.

MARVA

FOR BOND PAPER.
Claims use since Nov. 8, 1917.

Ser. No. 489,179. JOSEPH M. KATZ, Pittsburgh, Pa. Filed Sept. 29, 1945.

Petit Point

FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.
Claims use since Nov. 15, 1944.

Ser. No. 490,620. AMERICAN STENCIL MFG. CO., Denver, Colo. Filed Oct. 29, 1945.

SURE-RITE

FOR DUPLICATING SUPPLIES—NAMELY, STENCILS, CORRECTION FLUIDS, AND STYLI.
Claims use since Oct. 17, 1945.

Ser. No. 492,749. TIDY-HOUSE PAPER PRODUCTS INC., Brooklyn, N. Y. Filed Dec. 5, 1945.

Tidy House

FOR PAPER PLACE MATS, BOWL COVERS MADE OF PAPER, WAXPAPER, PAPER NAPKINS, PAPER TOWELS, AND PAPER TOILET TISSUE.
Claims use since May 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 480,658. RICHARD HUDNUT, New York, N. Y. Filed Mar. 8, 1945.

LE DEBUT SUCCESS COURSE

Applicant disclaims the word "Course" apart from the mark.
FOR PAMPHLETS COMPRISING A COURSE OF EXERCISES AND BEAUTY TREATMENTS.
Claims use since Mar. 2, 1945.

Ser. No. 491,498. NEW YORK WORLD-TELEGRAM CORPORATION, New York, N. Y. Filed Nov. 13, 1945.

VETERANS' CORNER

No claim is made to the word "Veterans'" apart from the mark.
FOR TITLE FOR A COLUMN CONTAINING NEWS OF INTEREST TO VETERANS.
Claims use since Sept. 4, 1945.

Ser. No. 492,829. FLOWER FOODS, INC., Maywood, Ill. Filed Dec. 7, 1945.

BLOOMLIFE AND ROSES

No claim is made to the word "Roses" alone.
FOR SCRIPTS FOR MONOLOGUES, DIALOGUES, DRAMATIC SKETCHES AND RADIO BROADCASTS, SUCH SCRIPTS SOLD AS A PUBLICATION IN TRADE AND A PUBLICATION PUBLISHED FROM TIME TO TIME DEVOTED TO ARTICLES ON CUT FLOWERS AND THEIR PRESERVATION.
Claims use since Feb. 1, 1939.

Ser. No. 494,788. FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed Jan. 15, 1946.



FOR MONTHLY PUBLICATION.
Claims use since Nov. 6, 1942.

Ser. No. 495,670. THE HEARST CORPORATION, New York, N. Y. Filed Jan. 30, 1946.

Assignment America

Applicant disclaims the word "America" apart from the mark.
FOR NEWSPAPER SECTION OR DEPARTMENT.
Claims use since Nov. 29, 1945.

CLASS 39

CLOTHING

Ser. No. 468,732. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname "Phillips" apart from the mark. The drawing is lined for the colors black and mandarin orange.

FOR WEARING APPAREL—NAMELY, MEN'S SHIRTS AND TROUSERS, OVERALLS OR ONE-PIECE SUITS, COATS, SWEATERS, JACKETS, AND CAPS.

Claims use since Dec. 27, 1930.

Ser. No. 468,938. EDDIE BAUER, doing business as Arctic Feather & Down Co., Seattle, Wash. Filed Apr. 3, 1944.

Applicant disclaims the word "Feather" apart from the mark.

Feather Foam

FOR QUILTED GARMENTS—NAMELY, HOODS, JACKETS, VESTS AND TROUSERS, AND SLEEPING BAGS.

Claims use since Mar. 1, 1944.

Ser. No. 478,633. KORET OF CALIFORNIA, INC., San Francisco, Calif. Filed Jan. 15, 1945.

TRIK

FOR GIRLS' AND WOMEN'S SKIRTS, JACKETS, OUTER SHORTS, PLAY SUITS, HALTERS, SLACKS, BLOUSES, AND CULOTTES.

Claims use since Dec. 20, 1944.

Ser. No. 482,168. LEVINSOHN BROS. CO. INC., New York, N. Y. Filed Apr. 14, 1945.

JIVE-FIVE

Applicant disclaims the right to the use of the term "Five" apart from the mark.

FOR CLOTHING—NAMELY, SUITS AND COATS FOR JUNIORS, BOYS, AND YOUNG MEN.

Claims use since Sept. 10, 1944.

Ser. No. 482,487. K. HANFLING & SON, Chicago, Ill. Filed Apr. 23, 1945.



Applicant disclaims the right to the use of the words "Oak Soles," "Boy," "Girl," and "Chicago, Ill."

FOR LEATHER SHOE SOLES.

Claims use since Apr. 10, 1945.

Ser. No. 484,428. L. J. SAMUELS & CO., INC., Boston, Mass. Filed June 11, 1945.

SUPEROCK

FOR MEN'S AND YOUNG MEN'S SUITS, TOPCOATS, AND OVERCOATS.

Claims use since November 1935.

Ser. No. 489,825. PICTURE BOOK FASHIONS, Omaha, Nebr. Filed Oct. 11, 1945.

Picture Book Fashions —A— Beckman Original

Applicant disclaims the word "Fashions" and the statement "A Beckman Original" apart from the mark.

FOR GIRLS' (FROM INFANTS TO TEEN AGE INCLUSIVE) DRESSES, CLOTH COATS, PINAFORES, SKIRTS, BLOUSES, APRONS, PLAYSUITS, HATS, PANTIES, AND SLIPS.

Claims use since Sept. 6, 1945.

Ser. No. 491,211. E. R. MOORE COMPANY, Chicago, Ill. Filed Nov. 7, 1945.

Juvies

FOR CHILDREN'S GARMENTS—NAMELY, OVERALLS, COVERALLS, SHORTS, SUNSUITS, SHIRTS, BLOUSES, WASH SUITS, PLAY SUITS, SLACKS, SNOW SUITS, JODHPURS, BIB SHORTS, COATS, JACKETS, SKIRTS, CREEPERS, ROMPERS, DRESSES, PAJAMAS, SKI PANTS AND TROUSERS.

Claims use since Apr. 18, 1944.

Ser. No. 492,396. MURRAY RASPLER, New York, N. Y. Filed Nov. 29, 1945.

RASLEY

FOR CRAVATS, NECKTIES, SPORT SHIRTS, SPORT COATS, SPORT JACKETS, UNDERWEAR, PAJAMAS, HANDKERCHIEFS, AND SOCKS.

Claims use since Oct. 26, 1945.

Ser. No. 495,764. RUSSELL-NEWMAN MANUFACTURING COMPANY, Denton, Tex. Filed Jan. 31, 1946.

Tessies

FOR WOMEN'S AND CHILDREN'S PANTIES, VESTS, BLOOMERS, SLIPS, NIGHTGOWNS, PAJAMAS, HOUSECOATS, AND BRASSIÈRES.

Claims use since Jan. 1, 1946.

Ser. No. 496,275. JOSEPH ROSENBERG CO., INC., Boston, Mass. Filed Feb. 8, 1946.



The drawing is lined for the color red. No claim is made to the word "Sportswear" apart from the mark.

FOR SPORTSWEAR CONSISTING OF SLACKS, SKIRTS, DRESSES, SHORTS, JACKETS, PLAYSUITS FOR CHILDREN, SPORT SUITS FOR WOMEN, CHILDREN'S OVERALLS, JODHPURS AND JERKINS SUITS.

Claims use since Jan. 15, 1943.

Ser. No. 497,070. COMMERCE MANUFACTURING COMPANY, INC., Commerce, Ga. Filed Feb. 23, 1946.

FULL CUP

FOR OVERALLS AND DUNGAREES.

Claims use since Jan. 10, 1946.

Ser. No. 498,122. DESMOND'S, INC., Los Angeles, Calif. Filed Mar. 12, 1946.

THREE-SOME

FOR MEN'S AND BOYS' SUITS, OVERCOATS, TOPCOATS, VESTS, TROUSERS, SLACKS, HATS, AND SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF; WOMEN'S DRESSES, SUITS, SLACKS, HATS, AND SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since May 1, 1925.

Ser. No. 498,166. PALOMINO SPORTSWEAR COMPANY, Los Angeles, Calif. Filed Mar. 13, 1946.

PALOMINO

FOR MEN'S SPORTSWEAR—NAMELY, SPORT SHIRTS.
Claims use since Feb. 27, 1946.

Ser. No. 498,288. S. S. KRESGE COMPANY, Detroit, Mich. Filed Mar. 15, 1946.

Nylcrest

FOR HOSIERY FOR MEN, WOMEN, AND CHILDREN.
Claims use since Jan. 5, 1946.

Ser. No. 498,356. OSCAR NEBEL HOSIERY CORPORATION, Verona, Va. Filed Mar. 16, 1946.

Rosaine

FOR HOSIERY.
Claims use since July 1, 1922.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 468,735. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Mar. 27, 1944.



No claim is made to the surname of "Phillips" apart from the mark. The drawing is lined for black and mandarin orange.
FOR POLISHING CLOTHS.
Claims use since April 1938.

Ser. No. 480,848. VERNEY FABRICS CORPORATION, New York, N. Y. Filed Mar. 12, 1945.

MUSIC IN FABRICS

Applicant disclaims the use of the word "Fabrics" except in connection with the mark.
FOR PIECE GOODS OF RAYON FIBRES, COTTON, WOOL, OR SILK, AND OF MIXTURES THEREOF.
Claims use since Feb. 1, 1945.

Ser. No. 480,850. VERNEY FABRICS CORPORATION, New York, N. Y. Filed Mar. 12, 1945.



Applicant disclaims the use of the pictorial representations of bolts of piece goods except in the relation and association shown.
FOR PIECE GOODS OF RAYON FIBRES, COTTON, WOOL, OR SILK, AND MIXTURES THEREOF.
Claims use since Feb. 1, 1945.

Ser. No. 487,453. WULLSCHLEGER & Co., New York, N. Y. Filed Aug. 22, 1945.

URANIUM

FOR FABRICS IN THE PIECE CONSISTING OF WOOL, SILK, COTTON AND RAYON AND NYLON AND MIXTURES THEREOF.
Claims use since Aug. 8, 1945.

Ser. No. 488,840. MARTIN WEINER, New York, N. Y. Filed Sept. 21, 1945.

ny-Tee

FOR PIECE GOODS—TO WIT, RAYON AND NYLON PIECE GOODS.
Claims use since Aug. 1, 1943.

Ser. No. 491,642. JOSEPH GLUCK, New York, N. Y. Filed Nov. 15, 1945.

CRUISEFLAKE

FOR RAYON PIECE GOODS.
Claims use since March 1938.

Ser. No. 493,156. UNIVERSAL RIBBON COMPANY, New York, N. Y. Filed Dec. 12, 1945.



No claim is made to the word "Ribbons" apart from the mark.
FOR RIBBONS SOLD BY THE SPOOL.
Claims use since Apr. 21, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 482,484. JOHN A. FREEL, doing business as Michigan Specialty and Manufacturing Co., Bay City, Mich. Filed Apr. 23, 1945.

SAMIR

FOR FRENUM GUIDES, CIRCUMCISION CLAMPS, SURGICAL SCISSORS, TONSILOTOMES, AND SPECULUMS.
Claims use since Mar. 10, 1945.

Ser. No. 483,767. ELECTRO-PHYSICAL LABORATORIES, INC., New York, N. Y. Filed May 25, 1945.

Cardiotron

FOR ELECTROCARDIOGRAPHS.
Claims use since February 1945.

Ser. No. 488,376. REVOC, INC., New York, N. Y. Filed Sept. 12, 1945.



The representation of a girl forming a feature of the mark is fanciful.
FOR TAMPONS, SANITARY PADS, AND SANITARY NAPKINS.
Claims use since Aug. 28, 1945.

Ser. No. 490,050. AMERICAN MEDICAL INSTRUMENT COMPANY, New York, N. Y. Filed Oct. 17, 1945.

AMICO

FOR SURGICAL DRESSINGS, SURGICAL FORCEPS, SURGICAL BANDAGES, AND SURGICAL SCISSORS.
Claims use since Oct. 8, 1945.

Ser. No. 490,633. W. G. BROWN, doing business as Vigoray Ozone Generator Company, Seattle, Wash. Filed Oct. 29, 1945.

VIGORAY

FOR ELECTRO-THERAPY MACHINES.
Claims use since Oct. 1, 1938.

Ser. No. 493,946. BECTON, DICKINSON & COMPANY, Rutherford, N. J. Filed Dec. 28, 1945.

VACUTAINER

FOR DEVICE USED FOR THE COLLECTION OF BLOOD SPECIMENS.
Claims use since Sept. 25, 1944.

Ser. No. 499,304. ANNA-JEAN YUILL, Chicago, Ill., assignor to James L. Younghusband, Chicago, Ill. Filed Mar. 29, 1946.

PONZ

FOR TAMPONS.
Claims use since Jan. 10, 1945.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 490,468. SUNSPRAY BEVERAGES, INC., Long Island City, N. Y. Filed Oct. 24, 1945.

Sun spray

FOR FRESH FRUIT BEVERAGES IN THE NATURE OF SOFT DRINKS.
Claims use since Feb. 21, 1939.

Ser. No. 490,469. SUNSPRAY BEVERAGES, INC., Long Island City, N. Y. Filed Oct. 24, 1945.



The drawing is lined to designate the color orange.
FOR FRESH FRUIT BEVERAGES IN THE NATURE OF SOFT DRINKS.
Claims use since Feb. 21, 1939.

Ser. No. 499,943. CLOVERDALE SPRING COMPANY, Baltimore, Md. Filed Apr. 10, 1946.

Professor Cloverdale



FOR NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since Jan. 1, 1946.

Ser. No. 500,152. WEGENER'S INC., Detroit, Mich. Filed Apr. 12, 1946.

TIK-L

FOR NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING SAME.
Claims use since Mar. 7, 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 482,626. JOHN E. HAYNES, doing business as Texarkana Candy Company, Texarkana, Tex. Filed Apr. 26, 1945.

MER-A-CANO

FOR CANDY.
Claims use since July 26, 1944.

Ser. No. 484,786. THE ENGELMAN GARDENS ASSOCIATION, Elsa, Tex. Filed June 19, 1945. Under the act of February 20, 1905, as amended June 10, 1938.

ELSA

FOR FRESH CITRUS FRUITS AND FRESH VEGETABLES.
Claims use since July 1941 on fresh citrus fruits; and since Apr. 7, 1945, on fresh vegetables.

Ser. No. 486,709. ALEXANDER ALOFF, doing business as Chicago Packing Company, Chicago, Ill. Filed Aug. 4, 1945.

OCEAN KING

The word "Ocean" is disclaimed apart from the combination "Ocean King".
FOR SMOKED DRIED BONELESS FISH.
Claims use since July 18, 1945.

Ser. No. 495,139. CLEMENT L. HIRSCH, doing business as Packers Canning Company, Los Angeles, Calif. Filed Jan. 21, 1946.

DOG TOWN

No claim is made to the word "Dog" apart from the mark as shown, although the applicant waives no common law rights to the same.
FOR CANNED DOG FOOD.
Claims use since Jan. 7, 1946.

Ser. No. 496,092. RAYMOND J. MATTISON, doing business as Sun-Bird Packing Co., Ltd., Arcadia, Calif. Filed Feb. 6, 1946.

SKY-BIRD

FOR CANNED CITRUS JUICE FOR FOOD PURPOSES—NAMELY, ORANGE JUICE.
Claims use since Jan. 21, 1946.

Ser. No. 496,203. CRYNS PRODUCTS, INC., Chicago, Ill. Filed Feb. 8, 1946.

C.C.L.

FOR CAKE LINER IN GREASE FORM, FOR APPLYING TO CONTAINERS IN WHICH CAKES ARE BAKED TO PERMIT THEIR WITHDRAWAL FROM THE CONTAINERS.
Claims use since June 6, 1945.

Ser. No. 496,205. CRYNS PRODUCTS, INC., Chicago, Ill. Filed Feb. 8, 1946.

C.F.Y.

FOR FOOD FOR YEAST IN POWDERED FORM, CONTAINING MINERAL SALTS, INACTIVE YEAST, AND CEREAL FLOURS.
Claims use since June 6, 1945.

Ser. No. 497,147. JOHN N. VALIANOS, doing business as The Valianos Company, San Francisco, Calif., assignor to The Valianos Company, San Francisco, Calif., a copartnership. Filed Feb. 23, 1946.



No claim is made to the word "Mackerel" or to the representation of the fish apart from the mark.
FOR CANNED MACKEREL.
Claims use since November 1945.

Ser. No. 497,511. TRIXIE PET FOOD CO., Englewood, Colo. Filed Mar. 1, 1946.

TRIXIE PET FOOD

No exclusive right to the use of the phrase "Pet Food" is claimed apart from its association with the mark.

FOR PET FOOD FOR DOGS, CATS AND OTHER CARNIVOROUS ANIMALS, CONSISTING OF A COOKED PREPARATION OF MEAT, VEGETABLE, AND CEREAL PRODUCTS.

Claims use since Nov. 1, 1943.

Ser. No. 498,585. CLINTON INDUSTRIES, INC., St. Louis, Mo. Filed Mar. 20, 1946.

HIPPO

FOR PEANUT BARS.

Claims use since Mar. 15, 1933.

Ser. No. 498,593. CLINTON INDUSTRIES, INC., Chicago, Ill. Filed Mar. 20, 1946.

BIRD of PARADISE

FOR CANDY.

Claims use since Feb. 10, 1939.

Ser. No. 498,872. WASHINGTON CREAMERY COMPANY, Seattle, Wash. Filed Mar. 23, 1946.



No claim is made to the representation of a turkey apart from the mark.

FOR CANNED BONED TURKEY AND BROTH.

Claims use since Feb. 1, 1946.

Ser. No. 498,918. NORTHWEST PACKING CO., Portland, Oreg. Filed Mar. 25, 1946.

BEG

FOR CANNED DOG AND CAT FOOD.

Claims use since Dec. 7, 1945.

Ser. No. 498,919. NORTHWEST PACKING CO., Portland, Oreg. Filed Mar. 25, 1946.

BEG MORE

FOR CANNED DOG AND CAT FOOD.

Claims use since Dec. 7, 1945.

Ser. No. 499,044. THE CAPITAL CITY PRODUCTS CO., Columbus, Ohio. Filed Mar. 27, 1946. Under 10-year proviso.

Purity

Applicant is the owner of the trade-mark shown in prior registration No. 46,157.

FOR OLEOMARGARINE.

Claims use since 1887.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 494,770. J. O. GARCIA ARCELAY, doing business as Licoreria Garcia, Mayaguez, Puerto Rico. Filed Jan. 15, 1946.

MADRILON

FOR CORDIALS.

Claims use since November 1945.

Ser. No. 497,762. ALEXANDER YOUNG DISTILLING CO., Philadelphia, Pa. Filed Mar. 6, 1946.

MARNIAK

FOR LIQUEUR.

Claims use since Feb. 15, 1946.

Ser. No. 499,318. CONSOLIDATED DISTILLERIES INC., East Taunton, Mass. Filed Mar. 30, 1946.

Merry Fellow

FOR WHISKEY.

Claims use since Nov. 30, 1945.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 470,078. FRERCE-LARSEN, INC., Norristown, Pa. Filed May 9, 1944.

"Betsy Ross" is the name of a character well known in the history of the United States.

"Betsy Ross"

FOR FLAGS OF ALL TYPES—NAMELY, NATIONAL AND ALLIED NATION FLAGS, ADVERTISING FLAGS, SIGNAL FLAGS, OFFICIAL SERVICE FLAGS AND FLAGS USED ONLY FOR DECORATIVE PURPOSES; CODE SIGNALS; PENNANTS AND BANNERS.

Claims use since Oct. 1, 1943.

Ser. No. 491,792. ANDERSON BOX COMPANY, Indianapolis, Ind. Filed Nov. 19, 1945.



The drawing is lined for the color blue.

FOR POULTRY EQUIPMENT—NAMELY, CHICK FEEDERS, PORTABLE CHICK FOUNTS, BATTERIES, NESTS, WATER PANS, BROODERS, AND BROODER GUARDS.

Claims use since Feb. 1, 1935.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 13, 1946

422,727. LADIES' HATS. STETSON HATS, INC., Philadelphia, Pa.
Filed June 21, 1943. Serial No. 461,575. PUBLISHED MAY 7, 1946. Class 39.

422,728. HOSIERY. FRIEDMAN HOSIERY COMPANY, New York, N. Y., assignor to Friedman Hosiery Corp., New York, N. Y., a corporation of New York.
Filed August 10, 1943. Serial No. 462,641. PUBLISHED OCTOBER 24, 1944. Class 39.

422,729. POWER AND LIGHTING PLANT ASSEMBLIES, COMPRISING AN INTERNAL COMBUSTION ENGINE AND AN ELECTRIC GENERATOR DRIVEN THEREBY. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich.
Filed September 15, 1943. Serial No. 463,414. PUBLISHED MAY 16, 1944. Class 21.

422,730. INFANTS' SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. RASMUSSEN SHOE COMPANY, Westboro, Mass.
Filed February 4, 1944. Serial No. 467,169. PUBLISHED APRIL 9, 1946. Class 39.

422,731. LADIES', MISSES', AND CHILDREN'S HATS. J. C. MARKS CO., New York, N. Y.
Filed February 8, 1944. Serial No. 467,283. PUBLISHED APRIL 16, 1946. Class 39.

422,732. FLYING SUITS, LEATHER COATS AND PANTS, ALL LINED WITH SHEEPSKIN, HIGH PILE FABRIC OR SIMILAR MATERIAL; SHOES AND OVERSHOES OF RUBBER, LEATHER, FABRIC, OR COMBINATIONS THEREOF. BRISTOL MANUFACTURING CORPORATION, Bristol, R. I.
Filed July 22, 1944. Serial No. 472,500. PUBLISHED APRIL 16, 1946. Class 39.

422,733. GERMICIDAL SOAPS AND FLOOR FINISHES HAVING THE PRIMARY PROPERTY OF CLEANSING AND INCIDENTAL PROPERTIES OF FINISHING. V. JACK VINCENT, doing business as Pur-O-Zone Chemical Company, Lawrence, Kans.
Filed August 11, 1944. Serial No. 473,201. PUBLISHED MAY 7, 1946. Class 4.

422,734. BOYS' AND MEN'S COTTON WORK AND PLAY CLOTHING—NAMELY, PANTS, TROUSERS, SLACKS, DUNGAREES, WAIST OVERALLS, OVERALLS, BIB OVERALLS, PLAY-SUITS, ONE-PIECE SUITS, COVERALLS, SUN-SUITS, SHIRTS AND SHORTS. GOLDSTONE BROTHERS, San Francisco, Calif.
Filed September 8, 1944. Serial No. 473,983. PUBLISHED APRIL 3, 1945. Class 39.

422,735. CORSETS, CORSELETS, GIRDLES, BANDEAUS, GARTER BELTS, CORSET-COMBINATIONS, FOUNDATION GARMENTS, AND BRASSIÈRES. VANITY CORSET COMPANY, INC., New York, N. Y.
Filed October 26, 1944. Serial No. 475,738. PUBLISHED MAY 7, 1946. Class 39.

422,736. HEELS AND SOLES OF RUBBER, PLASTIC, AND RUBBER COMPOSITION. BEEBE BROTHERS RUBBER COMPANY, Nashua, N. H.
Filed November 14, 1944. Serial No. 476,420. PUBLISHED JANUARY 1, 1946. Class 39.

422,737. RUBBER SHOE SOLES. WRIGHT & CROWLEY, New York, N. Y.
Filed November 30, 1944, Serial No. 477,086. PUBLISHED APRIL 16, 1946. Class 39.

422,738. WOMEN'S AND CHILDREN'S WEARING APPAREL, NAMELY, BLOUSES, OUTER SHIRTS, SLACKS, SLACK SUITS, COATS, ETC. ALICE FROCK CO., Oakland, Calif.
Filed December 1, 1944. Serial No. 477,087. PUBLISHED APRIL 2, 1946. Class 39.

422,739. SOLVENT, FOR USE AS A THINNER FOR PAINTS, LACQUERS, AS A CLEANER FOR PAINT BRUSHES AND AS AN AGENT FOR THE REMOVAL OF PAINT, ETC. FOUNDRY RUBBER COMPOUNDS CORPORATION, Washington, D. C.
Filed December 12, 1944. Serial No. 477,466. PUBLISHED APRIL 30, 1946. Class 16.

422,740. STEEL KITCHEN CABINETS AND COUNTER TOPS. HUBENY BROTHERS, INC., Roselle, N. J.
Filed January 1, 1945. Serial No. 478,124. PUBLISHED MAY 28 1946. Class 32.

422,741. MEN'S SUITS, SPORT COATS, AND TROUSERS. BAKER CLOTHES, Philadelphia, Pa., assignor to Baker Clothes, Inc., Philadelphia, Pa., a corporation of Pennsylvania.
Filed January 18, 1945. Serial No. 478,739. PUBLISHED AUGUST 7, 1945. Class 39.

422,742. ELECTRIC MOTORS, ELECTRIC GENERATORS, ELECTRIC ALTERNATORS, ELECTRIC ROTARY CONVERTERS, ELECTRIC MOTOR-GENERATOR SETS, ETC. CONTINENTAL ELECTRIC CO., INC., Newark, N. J.
Filed January 27, 1945. Serial No. 479,067. PUBLISHED MAY 15, 1945. Class 21.

422,743. MACHINERY PACKING MADE OF RUBBER OR OF RUBBER AND ASBESTOS. PRINCE RUBBER COMPANY, INC., Buffalo, N. Y.
Filed January 27, 1945. Serial No. 479,091. PUBLISHED MAY 28, 1946. Class 35.

422,744. TOYS FOR SMALL CHILDREN FOR AMUSEMENT, ENTERTAINMENT, AND TEACHING ARITHMETIC AND SPELLING. HARRY ROSENTHAL, doing business as Hollywood Specialty Company, Los Angeles, Calif.
Filed January 29, 1945. Serial No. 479,145. PUBLISHED MAY 21, 1946. Class 22.

422,745. BOOTS, SHOES, SLIPPERS, AND SANDALS, MADE OF RAFFIA, AND OF VARIOUS COMBINATIONS OF RAFFIA WITH FABRIC, LEATHER, PLASTIC, AND/OR RUBBER. ALLIED MANUFACTURING & TRADING CO., Pittsburgh, Pa.
Filed January 30, 1945. Serial No. 479,160. PUBLISHED APRIL 16, 1946. Class 39.

422,746. STUFFED ANIMAL TOYS. LOYOLA HIGH SCHOOL OF LOS ANGELES, INC., Los Angeles, Calif.
Filed January 30, 1945. Serial No. 479,191. PUBLISHED MAY 28, 1946. Class 22.

422,747. CARDBOARD, PAPER, AND PASTEBOARD CARTONS. CONTINENTAL CAN COMPANY, INC., New York, N. Y.
Filed February 15, 1945. Serial No. 479,840. PUBLISHED MAY 21, 1946. Class 2.

422,748. VARNISH. HALL HARDWARE COMPANY, Minneapolis, Minn.
Filed February 17, 1945. Serial No. 479,933. PUBLISHED MAY 7, 1946. Class 16.

422,749. CAULKING COMPOUNDS. PARALASTIC PRODUCTS CO., INC., New York, N. Y.
Filed February 28, 1945. Serial No. 480,343. PUBLISHED MAY 28, 1946. Class 12.

422,750. COMPACTS MADE OF PLASTICS AND/OR BASE METALS AND SOLD IN THE TRADE EMPTY. ALLIED PLASTICS COMPANY, Los Angeles, Calif., assignor to Allied Plastics Company, a corporation of California.
Filed March 5, 1945. Serial No. 480,491. PUBLISHED MAY 28, 1946. Class 2.

422,751. JACKETS, SKIRTS, BLOUSES, SLACKS, SHORTS, SUITS, DRESSES, AND COATS FOR LADIES AND MISSES, AND BEACHWEAR—NAMELY, BATHING SUITS, SLACKS, SHORTS, CAPES, COATS, SKIRTS, KNITTED HATS, AND PAJAMAS FOR USE ON THE BEACH. NEW JAUNTY SPORTSWEAR, INC., New York, N. Y.
Filed March 7, 1945. Serial No. 480,605. PUBLISHED JUNE 26, 1945. Class 39.

422,752. NON-METALLIC LOCKING WASHERS AND KEYS FOR USE IN LOCKING FLOURESCENT LAMP TUBES AGAINST RELEASE FROM THEIR SOCKETS. HAROLD S. BIXBY, doing business as Laduby Company, East Haven, Conn.
Filed April 12, 1945. Serial No. 482,040. PUBLISHED MAY 7, 1946. Class 21.

422,753. PANTIES MADE OF WATERPROOF MATERIAL AND SOLD FOR AND WORN BY INFANTS EXCLUSIVELY. EMPIRE SHIELD COMPANY, INC., New York, N. Y.
Filed May 4, 1945. Serial No. 482,983. PUBLISHED MAY 14, 1946. Class 39.

422,754. FERTILIZERS. OIL SPRAYS, INCORPORATED, also doing business as Crop King Company, Yakima, Wash.
Filed May 28, 1945. Serial No. 483,870. PUBLISHED APRIL 30, 1946. Class 10.

422,755. INCANDESCENT AND FLUORESCENT LAMPS. DURO-TEST CORPORATION, North Bergen, N. J., and elsewhere.
Filed June 7, 1945. Serial No. 484,251. PUBLISHED MAY 7, 1946. Class 21.

422,756. TYPEWRITER RIBBON AND CARBON PAPER. WRITE INCORPORATED, Bridgeport, Conn.
Filed June 14, 1945. Serial No. 484,550. PUBLISHED APRIL 30, 1946. Class 11.

422,757. CABINETS FOR SMOKE DETECTING EQUIPMENT SOLD IN TRADE EMPTY. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,294. PUBLISHED MAY 21, 1946. Class 32.

422,758. BABBIT METAL. SHOOK BRONZE CORPORATION, Lima, Ohio.
Filed July 11, 1945. Serial No. 485,700. PUBLISHED APRIL 30, 1946. Class 14.

422,759. LIQUID DETERGENT USED FOR WASHING AND SCOURING RAW WOOL, WOOLEN YARNS, AND WOOLEN AND WORSTED PIECE GOODS. HAAS-MILLER CORPORATION, Philadelphia, Pa.
Filed July 18, 1945. Serial No. 485,951. PUBLISHED MAY 7, 1946. Class 4.

422,760. WOMEN'S AND MISSES' WEARING APPAREL—NAMELY, BATHING SUITS, HATS, PLAY SUITS, AND OUTER SHORTS. THE TAILORED WOMAN, INC., New York, N. Y.
Filed August 7, 1945. Serial No. 486,879. PUBLISHED APRIL 16, 1946. Class 39.

422,761. ABRASIVE GRAINS AND POWDERS, ABRASIVE WHEELS, AND GRINDING MEDIA—NAMELY, BALLS AND PEBBLES AS USED IN BALL AND PEBBLE MILLS. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va.
Filed August 17, 1945. Serial No. 487,222. PUBLISHED APRIL 30, 1946. Class 4.

422,762. PROJECTILE NOSES FOR ARTILLERY SHELLS AND BULLETS. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va.
Filed August 17, 1945. Serial No. 487,223. PUBLISHED APRIL 30, 1946. Class 9.

422,763. FINGER GUARDS MADE OF LEATHER AND/OR FABRIC, FOR USE BY ELEVATOR OPERATORS AND WORKMEN. OLYMPIC GLOVE COMPANY, New York, N. Y.
Filed August 22, 1945. Serial No. 487,431. PUBLISHED APRIL 2, 1946. Class 39.

422,764. TWIN KERCHIEFS WHICH MAY BE USED AS NECKWEAR OR AS DICKEYS. VERA A. LUBIN, doing business as Janvere-California, Los Angeles, Calif.
Filed August 30, 1945. Serial No. 487,786. PUBLISHED MAY 14, 1946. Class 39.

422,765. FORGINGS AND CASTINGS OF IRON AND IRON ALLOYS. MECHANITE METAL CORPORATION, Chattanooga, Tenn.
Filed September 7, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 488,112. PUBLISHED APRIL 30, 1946. Class 14.

422,766. ALL-PURPOSE CLEANER FOR CLEANING FLOORS, WALLS, WOODWORK, CARPETS, RUGS, UPHOLSTERY, FURNITURE, PORCELAIN, ETC. THE CROWN CHEMICAL COMPANY, Cleveland, Ohio.
Filed September 10, 1945. Serial No. 488,248. PUBLISHED APRIL 30, 1946. Class 4.

422,767. TROUSER BELTS. THE LYNTONE COMPANY, Oklahoma City, Okla.
Filed September 11, 1945. Serial No. 488,275. PUBLISHED APRIL 16, 1946. Class 39.

422,768. PRIMERS AND CLEAR AND PIGMENTED PROTECTIVE AND DECORATIVE FILM-FORMING COMPOSITIONS IN THE NATURE OF PAINTS, ETC. ROXALIN FLEXIBLE FINISHES, INC., Elizabeth, N. J.
Filed September 11, 1945. Serial No. 488,285. PUBLISHED APRIL 30, 1946. Class 16.

422,769. PLATING-RACK ENAMELS AND STOP-OFF COATINGS FOR ARTICLES TO BE PLATED TO PREVENT DEPOSITION OF METAL ON THE COATED PORTION. MAAS & WALDSTEIN COMPANY, Newark, N. J.
Filed September 12, 1945. Serial No. 488,356. PUBLISHED MAY 7, 1946. Class 16.

422,770. SOAP. HOWARD D. DAY, doing business as Day & Frick, Philadelphia, Pa.
Filed September 13, 1945. Serial No. 488,398. PUBLISHED MAY 7, 1946. Class 4.

422,771. GLOVES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed September 15, 1945. Serial No. 488,552. PUBLISHED APRIL 16, 1946. Class 39.

422,772. CLEANING POLISH FOR FURNITURE, AUTOMOBILES, AND FINISHED SURFACES GENERALLY. GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich.
Filed September 17, 1945. Serial No. 488,584. PUBLISHED APRIL 30, 1946. Class 16.

422,773. SELF-POLISHING WAX FOR FURNITURE, AUTOMOBILES, AND FINISHED SURFACES GENERALLY. GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich.
Filed September 17, 1945. Serial No. 488,585. PUBLISHED APRIL 30, 1946. Class 16.

422,774. HAND BAGS. STERLING NOVELTY COMPANY, Chicago, Ill.
Filed September 17, 1945. Serial No. 488,628. PUBLISHED MAY 21, 1946. Class 3.

422,775. PAJAMAS AND NIGHT ROBES. KAYLON INCORPORATED, New York, N. Y.
Filed September 18, 1945. Serial No. 488,651. PUBLISHED APRIL 9, 1946. Class 39.

422,776. HOSIERY. NATIONAL HOSIERY MILLS, INC., Indianapolis, Ind.
Filed September 18, 1945. Serial No. 488,658. PUBLISHED FEBRUARY 5, 1946. Class 39.

422,777. FUR GARMENTS—NAMELY, COATS, SCARFS, COLLARS, CAPES, MUFFS, JACKETS, AND BOLEROS. GUSTAV R. FOERSTER, doing business as Foerster's Furriers, Springfield, Mass.
Filed September 27, 1945. Serial No. 489,061. PUBLISHED APRIL 16, 1946. Class 39.

422,778. PLASTIC PAINT FOR COATING THE INTERIOR OF BOILERS AND TANKS. SAVERITE ENGINEERING COMPANY, Los Angeles, Calif.
Filed September 28, 1945. Serial No. 489,150. PUBLISHED APRIL 16, 1946. Class 16.

422,779. READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. JOHN MCQUADE & CO., INC., New York, N. Y.
Filed October 1, 1945. Serial No. 489,231. PUBLISHED APRIL 30, 1946. Class 16.

422,780. DEHYDRATED MANURE. JOSEPH A. FRENCH, Newark, N. J.
Filed October 4, 1945. Serial No. 489,394. PUBLISHED MAY 7, 1946. Class 10.

422,781. PROJECTILE NOSES FOR ARTILLERY SHELLS AND BULLETS. UNITED STATES QUARRY TILE COMPANY Canton and East Sparta, Ohio, and Parkersburg W. Va.
Filed October 6, 1945. Serial No. 489,545. PUBLISHED APRIL 30, 1946. Class 9.

422,782. POLISH WHICH POLISHES AND CLEANS, IN ONE OPERATION, AUTOMOBILES, FURNITURE, DESKS, RADIOS, AND PLASTICS. ROY H. JENKINS, doing business as Bluvox Company, Los Angeleg, Calif.
Filed October 10, 1945. Serial No. 489,739. PUBLISHED APRIL 30, 1946. Class 16.

422,783. ARC WELDING RODS. THE AUTO ARC-WELD MANUFACTURING CO., Cleveland, Ohio.
Filed October 15, 1945. Serial No. 489,929. PUBLISHED MAY 14, 1946. Class 14.

422,784. SWITCH RODS. AMERICAN BEAKE SHOE COMPANY, New York, N. Y.
Filed October 17, 1945. Serial No. 490,048. PUBLISHED MAY 14, 1946. Class 14.

422,785. MEN'S, BOYS', AND CHILDREN'S UNDERWEAR; AND KNITTED OUTERWEAR—NAMELY, SWEATERS, JACKETS, AND SPORT COATS. ASSOCIATED KNITTED OUTERWEAR MILLS, INC., New York, N. Y.
Filed October 26, 1945. Serial No. 490,520. PUBLISHED MAY 7, 1946. Class 39.

422,786. GIRDLES AND CORSETS. ARISTA FOUNDATIONS, New York, N. Y.
Filed October 29, 1945. Serial No. 490,623. PUBLISHED APRIL 16, 1946. Class 39.

422,787. LADIES' AND MISSES' HATS. FRANKEL AND WOLFF, New York, N. Y.
Filed October 31, 1945. Serial No. 490,803. PUBLISHED APRIL 16, 1946. Class 39.

422,788. SHOES OF LEATHER, FABRIC, RUBBER, AND COMBINATIONS THEREOF. TOWN AND COUNTRY SHOES, Sedalia, Mo.
Filed October 31, 1945. Serial No. 490,863. PUBLISHED APRIL 16, 1946. Class 39.

422,789. HOSIERY. MOJUD HOSIERY CO., INC., Long Island City, N. Y.
Filed November 7, 1945. Serial No. 491,210. PUBLISHED APRIL 16, 1946. Class 39.

422,790. PROTECTIVE COATING IN THE NATURE OF PAINT. CORDO CHEMICAL CORPORATION, Norwalk, Conn.
Filed November 8, 1945. Serial No. 491,240. PUBLISHED APRIL 16, 1946. Class 16.

422,791. INFANTS' AND CHILDREN'S BATH ROBES, BUNTINGS, SLEEPING BAGS, SACQUES, DRESSES, HATS, SHOES, STOCKINGS, NIGHTGOWNS, SWEATERS, SHAWLS, WRAPS, KIMONAS, AND HOODED BLANKETS. MORRIS ESKIND, doing business as Alan Baby Products Co., Jackson Heights, N. Y.
Filed November 9, 1945. Serial No. 491,318. PUBLISHED APRIL 16, 1946. Class 39.

422,792. MEN'S, WOMEN'S, BOYS' AND GIRLS' SWEATERS AND SWEATER SHIRTS. NEW YORK KNITTING MILLS, New York, N. Y.
Filed November 9, 1945. Serial No. 491,352. PUBLISHED APRIL 16, 1946. Class 39.

422,793. SHOES MADE OF LEATHER, FABRIC, OR A COMBINATION OF THESE MATERIALS. THE JULIAN & KOKENGE CO., Columbus, Ohio.
Filed November 10, 1945. Serial No. 491,413. PUBLISHED APRIL 9, 1946. Class 39.

422,794. WOOD FILLER. ATLAS POWDER COMPANY, Wilmington, Del.
Filed November 13, 1945. Serial No. 491,450. PUBLISHED APRIL 16, 1946. Class 16.

422,795. LEATHER, COTTON, AND LEATHER AND COTTON WORK GLOVES. THE NATIONAL GLOVE COMPANY, Columbus, Ohio.
Filed November 13, 1945. Serial No. 491,494. PUBLISHED MAY 7, 1946. Class 39.

422,796. NON-INFLAMMABLE LIQUID PAINT CLEANER. SOIL-OFF MANUFACTURING CO., Glendale, Calif.
Filed November 21, 1945. Serial No. 492,005. PUBLISHED APRIL 30, 1946. Class 4.

422,797. SHAVING CREAM, FACE, AND BATH SOAPS. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed November 23, 1945. Serial No. 492,024. PUBLISHED APRIL 30, 1946. Class 4.

422,798. MEN'S HATS. SCHOBLE HATS, INC., Philadelphia, Pa.
Filed November 26, 1945. Serial No. 492,227. PUBLISHED MAY 14, 1946. Class 39.

422,799. CLEANING PREPARATION FOR CLEANING WALLS, AND FOR WASHING PAINTED SURFACES, AND HAVING INCIDENTAL WATER-SOFTENER PROPERTIES. THE MUROKLEEN COMPANY, Iron Mountain, Mich.
Filed November 28, 1945. Serial No. 492,333. PUBLISHED MAY 7, 1946. Class 4.

422,800. SELF-EMULSIFYING COLLOIDAL DETERGENT SOLVENT. THE CURRAN CORPORATION, Malden, Mass.
Filed November 29, 1945. Serial No. 492,361. PUBLISHED MAY 7, 1946. Class 4.

422,801. TOILET AND BATH SOAP. BOURJOIS, INC., New York, N. Y.
Filed December 3, 1945. Serial No. 492,544. PUBLISHED MAY 7, 1946. Class 4.

422,802. GARDEN HOSE. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed December 5, 1945. Serial No. 492,704. PUBLISHED MAY 28, 1946. Class 35.

422,803. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES. MEADTEX FABRICS CO., New York, N. Y.
Filed December 5, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,724. PUBLISHED MAY 14, 1946. Class 39.

422,804. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES. MEADTEX FABRICS CO., New York, N. Y.
Filed December 5, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,728. PUBLISHED MAY 14, 1946. Class 39.

422,805. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES. MEADTEX FABRICS CO., New York, N. Y.
Filed December 5, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,732. PUBLISHED MAY 14, 1946. Class 39.

422,806. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES. MEADTEX FABRICS CO., New York, N. Y.
Filed December 6, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,779. PUBLISHED MAY 14, 1946. Class 39.

422,807. LADIES' UNDERWEAR. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed December 6, 1945. Serial No. 492,806. PUBLISHED MAY 14, 1946. Class 39.

422,808. MISSES' AND WOMEN'S BLOUSES. THE MAYEHOFF CO., New York, N. Y.
Filed December 8, 1945. Serial No. 492,933. PUBLISHED MAY 14, 1946. Class 39.

422,809. MEN'S AND YOUNG MEN'S SUITS AND PANTS. ROSE BROTHERS, New York, N. Y.
Filed December 8, 1945. Serial No. 492,958. PUBLISHED MAY 14, 1946. Class 39.

422,810. SOAP BUBBLE KITS. CHEMICAL SUNDRIES CO., Chicago, Ill.
Filed December 10, 1945. Serial No. 492,987. PUBLISHED MAY 21, 1946. Class 22.

428,811. DOLLS. THE CHILDREN'S COMPANY, Chicago, Ill.
Filed December 11, 1945. Serial No. 493,042. PUBLISHED MAY 21, 1946. Class 22.

422,812. CLOTHES HAMPERS. OTTO EIDINGER, doing business as O. Eidinger Mfg. Co., Chicago, Ill.
Filed December 15, 1945. Serial No. 493,335. PUBLISHED MAY 21, 1946. Class 2.

422,813. DISPLAY CABINETS FOR CHEESE AND OTHER FOODS. FRESHMASTER CORPORATION, Newark, N. J.
Filed December 15, 1945. Serial No. 493,340. PUBLISHED MAY 28, 1946. Class 32.

422,814. HAIR NETS. SIDNEY HENRY, New York, N. Y.
Filed December 15, 1945. Serial No. 493,353. PUBLISHED MAY 14, 1946. Class 39.

422,815. FURNITURE SLIPCOVERS. MALDEN NOVELTY CO., INC., Malden, Mass.
Filed December 15, 1945. Serial No. 493,372. PUBLISHED MAY 28, 1946. Class 32.

422,816. TOYS CONSISTING OF A SERIES OF INTERCHANGEABLE BLOCKS AND PIECES, WHICH WHEN ASSEMBLED FORM CARICATURES OF BIRDS. NATIONAL TOY PRODUCTS, Pasadena, Calif.
Filed December 18, 1945. Serial No. 493,505. PUBLISHED MAY 28, 1946. Class 22.

422,817. LADIES' COATS AND SUITS. GANGEL & KITAY, INC., New York, N. Y.
Filed December 22, 1945. Serial No. 493,757. PUBLISHED MAY 14, 1946. Class 39.

422,818. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass.
Filed December 22, 1945. Serial No. 493,840. PUBLISHED MAY 28, 1946. Class 2.

422,819. PAPER BAGS. SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass.
Filed December 22, 1945. Serial No. 493,841. PUBLISHED MAY 28, 1946. Class 2.

422,820. PYROPHORIC CIGAR AND CIGARETTE LIGHTERS. GALTER MANUFACTURING COMPANY, Chicago, Ill.
Filed January 21, 1946. Serial No. 495,136. PUBLISHED MAY 28, 1946. Class 34.

422,821. LAMP SHADES. NATIONAL NOVELTY MFG. CO., Philadelphia, Pa.
Filed January 25, 1946. Serial No. 495,401. PUBLISHED MAY 28, 1946. Class 34.

422,822. COMBINED AIR SEPARATORS OR CLEANERS AND STEAM TRAPS. THE SWARTWOUT COMPANY, Cleveland, Ohio.
Filed January 26, 1946. Serial No. 495,524. PUBLISHED MAY 28, 1946. Class 34.

422,823. PYROPHORIC LIGHTERS AND FLINTS THEREFOR. THE PARKER PIPE COMPANY LIMITED, London, England.
Filed January 29, 1946. Serial No. 495,619. PUBLISHED MAY 28, 1946. Class 34.

422,824. DOLLS. THREE-IN-ONE DOLL CORPORATION, New York, N. Y.
Filed January 29, 1946. Serial No. 495,638. PUBLISHED MAY 21, 1946. Class 22.

422,825. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,792. PUBLISHED MAY 21, 1946. Class 22.

422,826. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,795. PUBLISHED MAY 21, 1946. Class 22.

422,827. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,796. PUBLISHED MAY 21, 1946. Class 22.

422,828. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,797. PUBLISHED MAY 21, 1946. Class 22.

422,829. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,816. PUBLISHED MAY 21, 1946. Class 22.

422,830. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,819. PUBLISHED MAY 21, 1946. Class 22.

422,831. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,820. PUBLISHED MAY 21, 1946. Class 22.

422,832. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,822. PUBLISHED MAY 21, 1946. Class 22.

422,833. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,825. PUBLISHED MAY 21, 1946. Class 22.

422,834. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,830. PUBLISHED MAY 21, 1946. Class 22.

422,835. DOLLS AND DOLLS' CLOTHES. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif.
Filed February 18, 1946. Serial No. 496,834. PUBLISHED MAY 21, 1946. Class 22.

422,836. FILING CABINETS. ART STEEL SALES CORPORATION, New York, N. Y.
Filed February 25, 1946. Serial No. 497,160. PUBLISHED MAY 28, 1946. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

422,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHAMACEUTICAL PREPARATIONS.) EMIL P. MARTINI, doing business as Elmar Laboratories, Hackensack, N. J. Filed Apr. 14, 1943. Serial No. 459,881.

PHENO-TANNIN

FOR GARGLE AND MOUTH WASH.
Claims use since February 1937.

422,838. (CLASS 39. CLOTHING.) LOUIS B. STRAUSS, Manhattan Beach, N. Y. Filed Dec. 21, 1943. Serial No. 465,969.

Raccoonspun

FOR MEN'S AND WOMEN'S SWEATERS, SCARFS, AND HOSIERY, ALL FABRICATED FROM YARN HAVING A SUBSTANTIAL CONTENT OF RACOON FUR THEREIN.
Claims use since Nov. 22. 1943.

422,839. (CLASS 38. PRINTS AND PUBLICATIONS.) W. H. LOOMIS, JR., doing business as Men of Men, Kansas City, Mo. Filed Apr. 29, 1944. Serial No. 469,816.

MEN OF MEN

FOR CREDIT CREDENTIAL AND IDENTIFICATION CARDS, SOLD AS SUCH.
Claims use since Mar. 31, 1944.

422,840. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) ILG ELECTRIC VENTILATING CO., Chicago, Ill. Filed June 9, 1944. Serial No. 471,085.

PORTVENTE

FOR FORCED DRAFT PORT LIGHT VENTILATORS FOR SHIPS.
Claims use since Apr. 14, 1944.

422,841. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE YALE & TOWNE MANUFACTURING COMPANY, New York, N. Y. Filed July 12, 1944. Serial No. 472,172.

TRANSPORTER

FOR MOTORIZED HAND LIFT TRUCKS.
Claims use since May 1, 1942.

422,842. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENJAMIN F. WISSNER, New York, N. Y. Filed Aug. 7, 1944. Serial No. 473,043.

ORANJUICER

FOR CITRUS FRUIT SQUEEZER.
Claims use since July 31, 1944.

422,843. (CLASS 16. PAINTS AND PAINTERS' MATERIALS. LASTING PRODUCTS COMPANY, Baltimore, Md. Filed Aug. 17, 1944. Serial No. 473,386.

LASTING PROTECTION

FOR PAINTS IN DRY FORM, PASTE PAINTS, READY-MIXED PAINTS, DISTEMPER PAINTS, COLD WATER PAINTS, PAINT ROOF COATINGS, STAINS, PAINT DRIERS, VARNISHES, PAINT ENAMELS, PUTTIES, DRY PIGMENTS, PAINT VEHICLES AND PAINT THINNERS.
Claims use since January 1933.

422,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELLEN M. UPTON, doing business as Luscious Crust Company, Mount Vernon, N. Y. Filed Aug. 19, 1944. Serial No. 473,462.

LUSCIOUS CRUST

FOR PASTRY DOUGH.
Claims use since May 7, 1944.

422,845. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MAR-SALLE CHICAGO COMPANY, Chicago, Ill. Filed Aug. 22, 1944. Serial No. 473,509.

COCOMINT Liqueur

FOR LIQUEUR.
Claims use since July 17, 1944.

422,846. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Oct. 11, 1944. Serial No. 473,198.

POESY DEPARTMENT

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING OF ALLEGED POETRY PUBLISHED ELSEWHERE WITH SERIOUS PURPORT BUT EMPLOYING LANGUAGE SO POORLY CHOSEN AND SO UNDULY PRETENTIOUS, AND A METRICAL STRUCTURE SO INACCURATE, AS TO BE LUDICROUS.
Claims use since Nov. 19, 1927.

422,847. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BENRUS WATCH COMPANY, New York, N. Y. Filed Dec. 11, 1944. Serial No. 477,394.

"The Test of Time"

FOR WATCHES.
Claims use since Feb. 1, 1944.

422,848. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) OTTILIE PAULAS, doing business as General Photo Products Co., Chatham Township, Morris County, N. J. Filed Dec. 15, 1944. Serial No. 477,616.

EXACT PHOTE COPY

FOR PHOTOGRAPHIC REPRODUCTION APPARATUS FOR MAKING PHOTOGRAPHIC PRINTS OF OBJECTS, PARTS THEREOF, AND SUPPLIES THEREFOR—NAMELY, SENSITIZED PAPERS, SENSITIZED TRACING CLOTHS, DEVELOPING TRAYS, AND ELECTRICAL DRYERS AND DRYING PLATES FOR USE IN DRYING DEVELOPED SENSITIZED PAPERS AND DEVELOPED SENSITIZED CLOTH TRACINGS AND THE LIKE.
Claims use since Nov. 1, 1944.

422,849. (CLASS 47. WINES.) ROMA WINE COMPANY, New York, N. Y., and Fresno, Calif. Filed Dec. 15, 1944. Serial No. 477,622.

AROMA DE CALIFORNIA

FOR WINES.
Claims use since Feb. 10, 1933.

422,850. (CLASS 38. PRINTS AND PUBLICATIONS.) SUTTON PUBLISHING COMPANY, INC., New York, N. Y. Filed Dec. 18, 1944. Serial No. 477,723.

ELECTRICAL EQUIPMENT
NEW DEVELOPMENTS IN PRODUCTS · PARTS · MATERIALS
including Electronic Equipment

FOR PERIODICALS PUBLISHED FROM TIME TO TIME.
Claims use since February 1943.

422,851. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CUNO ENGINEERING CORPORATION, Meriden, Conn. Filed Dec. 21, 1944. Serial No. 477,798.

Micro-Klean

FOR MECHANICAL FLUID STRAINING AND FILTERING APPARATUS AND PARTS THEREOF AS ACCESSORIES FOR FILTERING LIQUIDS FOR MACHINERY AND ENGINES.
Claims use since Dec. 13, 1944.

422,852. (CLASS 19. VEHICLES.) THE FRANK F. TAYLOR COMPANY, Norwood, Ohio. Filed Feb. 1, 1945. Serial No. 479,314.

Taylor-Tot

FOR BABY WALKERS AND STROLLERS.
Claims use since Dec. 31, 1924.

422,853. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 21, 1945. Serial No. 480,060.

DEPT. OF ENGLISH LITERATURE

FOR HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING FROM OTHER PUBLICATIONS OF STATEMENTS MADE WITH SERIOUS PURPORT BUT UNINTENTIONALLY AND IN A LUDICROUS FASHION ASPERSING GENUINE LITERATURE OR THE ART OF SERIOUS WRITING.
Claims use since Feb. 20, 1937.

422,854. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARSH STENCIL MACHINE COMPANY, Belleville, Ill. Filed Feb. 21, 1945. Serial No. 480,078.

MARSH

FOR FOUNTAIN BRUSHES, OR THE LIKE.
Claims use since Apr. 21, 1921.

422,855. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROTOR TOOL COMPANY, Cleveland, Ohio. Filed Feb. 24, 1945. Serial No. 480,194.

ROTOR TOOLS

FOR ROTARY FLUID MOTORS ADAPTED TO OPERATE TOOLS.
Claims use since Jan. 31, 1945.

422,856. (CLASS 38. PRINTS AND PUBLICATIONS.) SUTTON PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 7, 1945. Serial No. 480,632.

ELECTRIC-SERVICE EQUIPMENT
NEW DEVELOPMENTS IN PRODUCTS · PARTS · MATERIALS

FOR PERIODICAL MAGAZINE PUBLISHED FROM TIME TO TIME.
Claims use since Feb. 21, 1945.

422,857. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLOWS MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Mar. 17, 1945. Serial No. 481,036.

GRIPTITE

FOR METAL HOSE AND PIPE CLAMP.
Claims use since Sept. 1, 1929.

422,858. (CLASS 19. VEHICLES.) BUTLER MANUFACTURING COMPANY, Kansas City, Mo. Filed Mar. 19, 1945. Serial No. 481,056.

BUTLER BUILT

FOR TRUCK TANK AND TRAILER TANK VEHICLES.
Claims use since Nov. 30, 1942.

422,859. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LE TOURNEAU FOUNDATION, Toccoa, Ga. Filed Mar. 28, 1945. Serial No. 481,416.

Industrial Chaplain

FOR PERIODICAL PUBLICATION.
Claims use since Jan. 15, 1945.

422,860. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LITTLE FALLS ALLOYS, INC., Paterson, N. J. Filed Apr. 28, 1945. Serial No. 482,751.

SILVERCOTE

FOR BERYLLIUM COPPER WIRE AND STRIP.
Claims use since Jan. 11, 1944.

422,861. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HYSTER COMPANY, Portland, Oreg. Filed Apr. 30, 1945. Serial No. 482,802.

STRADDLE TRUCK

FOR VEHICLES ADAPTED TO LIFT, TRANSPORT AND DEPOSIT PILED LUMBER AND THE LIKE.
Claims use since Feb. 1, 1945.

422,862. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN CHAIN & CABLE COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed May 4, 1945. Serial No. 482,964.

PENN-STEEL

FOR LAWN MOWERS.
Claims use since 1941.

422,863. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE GEORGE W. BORG CORPORATION, Chicago, Ill., and Delavan, Wis. Filed May 10, 1945. Serial No. 483,166.

ELECTRONIC—MECHANICAL
GIBBS
EQUIPMENT

FOR ELECTRIC MOTORS, AMPLIFIERS, STANDARD FREQUENCY GENERATORS, RHEOSTATS, AND POTENTIOMETERS.
Claims use since Apr. 16, 1940.

422,864. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) THE FLUOR CORPORATION, LTD., Los Angeles, Calif. Filed May 15, 1945. Serial No. 483,371.

fin-fan

FOR AIR-COOLED HEAT EXCHANGE EQUIPMENT, IN THE FORM OF FINNED PIPE COILS CONTAINED IN ONE OR MORE CHAMBERS THROUGH WHICH AIR FLOW IS CREATED BY FANS OR BLOWERS, TO COOL FLUIDS FLOWING THROUGH SUCH COILS.
Claims use since Sept. 11, 1944.

422,865. (CLASS 10. FERTILIZERS.) E. RAUH & SONS FERTILIZER CO., Indianapolis, Ind. Filed May 24, 1945. Serial No. 483,739.

RAUH QUALITY
FIRST IN THE FIELD

The drawing is lined for shading purposes only.
FOR TANKAGE AND FERTILIZER.
Claims use since Aug. 6, 1923.

422,866. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) V FRUIT BRANDY COMPANY, Los Angeles, Calif. Filed May 28, 1945. Serial No. 483,879.

California Nectar

FOR LIQUEUR.
Claims use since May 3, 1945.

422,867. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AUBURN FOUNDRY, INC., Auburn, Ind. Filed May 31, 1945. Serial No. 484,006. Applicant is the owner of registration No. 306,507.

AUBURN
OIL BURNING
FURNACE

FOR OIL BURNING FURNACE.
Claims use since 1941.

422,868. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AUBURN FOUNDRY, INC., Auburn, Ind. Filed June 1, 1945. Serial No. 484,044. Applicant is the owner of registration No. 306,507.

AUBURN
Stoker
Furnace

FOR STOKER FURNACE.
Claims use since 1940.

422,869. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945. Serial No. 484,230.

FAMOUS FINISHES

FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

422,870. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945. Serial No. 484,231.



FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

422,871. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945. Serial No. 484,232.



FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

422,872. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945. Serial No. 484,233.



FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

422,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) BRADFORD DYEING ASSOCIATION (U. S. A.), Westerly, R. I. Filed June 7, 1945. Serial No. 484,234.



FOR PIECE GOODS OF RAYON AND WOOL, AND OF RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 9, 1945.

422,874. (CLASS 38. PRINTS AND PUBLICATIONS.) BURRELLE'S PRESS CLIPPING BUREAU, New York, N. Y. Filed June 12, 1945. Serial No. 484,443.



FOR COLLECTIONS OF PRESS CLIPPINGS SOLD AS SUCH.
Claims use since January 1932.

422,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEABROOK FARMS CO., Upper Deerfield, N. J. Filed June 16, 1945. Serial No. 484,641.



Applicant is the owner of Reg. No. 184,841 (renewed.)
FOR QUICK FROZEN FRUITS, VEGETABLES AND BERRIES.
Claims use since 1931, and since Dec. 23, 1912, as to the notation "Seabrook" alone.

422,876. (CLASS 38. PRINTS AND PUBLICATIONS.) NICKERSON & COLLINS CO., Chicago, Ill. Filed June 19, 1945. Serial No. 484,756.

Industrial REFRIGERATION

FOR A SECTION IN A MONTHLY MAGAZINE OR PERIODICAL PUBLICATION.
Claims use since May 1, 1945.

422,877. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOUND BROOK OILLESS BEARING COMPANY, Bound Brook, N. J. Filed June 25, 1945. Serial No. 485,003.

OILBRONZ

FOR MACHINERY BEARINGS, BUSHINGS FOR MECHANICAL WORKING JOINTS, AND MACHINE PARTS—NAMELY, PISTONS, VALVE STEM GUIDES, POROUS BRONZE PLUGS, TOGGLE PINS, FILTER ELEMENTS, SLIDES, GEARS, POROUS BRONZE RINGS, END PLATES, THRUST WASHERS, POROUS BRONZE RETAINERS, OIL SEALS AND SIMILAR PARTS OF POROUS BRONZE FOR BEARING SURFACES.
Claims use since May 15, 1945.

422,878. (CLASS 2. RECEPTACLES.) M. LOWENSTEIN & SONS, INC., New York, N. Y. Filed June 28, 1945. Serial No. 485,149.

PRETTY PRINT BAGS

FOR BAGS MADE OF COTTON TO BE USED AS CONTAINERS FOR FOOD PRODUCTS AND OTHER COMMODITIES.
Claims use since June 13, 1945.

422,879. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) RADIANT MANUFACTURING CORPORATION, Chicago, Ill. Filed July 9, 1945. Serial No. 485,600.

RADIANT

Applicant is the owner of Reg. No. 399,159.
FOR MOTION PICTURE PROJECTION SCREENS, TRIPODS THEREFOR, AND PHOTOGRAPHIC LIGHTING EQUIPMENT—NAMELY, ELECTRIC FLOOD LIGHTING AND FLASH BULB LIGHTING FIXTURES AND PORTABLE ADJUSTABLE STANDS THEREFOR.
Claims use since June 23, 1944.

422,880. (CLASS 38. PRINTS AND PUBLICATIONS.) PALOMINO HORSE BREEDERS OF AMERICA, INC., Mineral Wells, Tex. Filed July 20, 1945. Serial No. 486,060.

PALOMINO PROGRESS
Official
Stud Book and Registry

FOR AN ANNUAL PUBLICATION DEVOTED TO THE BREEDING AND REGISTRATION OF PALOMINO HORSES.
Claims use since July 1, 1942.

422,881. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAX & BERNARD FELDMAN, Miami Beach, Fla., and Detroit, Mich. Filed July 23, 1945. Serial No. 486,141.

LITE-IT

FOR AUTOMATIC ELECTRIC CIGARETTE AND CIGAR LIGHTERS FOR AUTOMOBILES OR OTHER FIXED POSITIONINGS.
Claims use since March 6, 1945.

422,882. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MCQUAY-NORRIS MANUFACTURING CO., St. Louis, Mo. Filed July 28, 1945. Serial No. 486,424.



FOR AUTOMOTIVE ENGINE PARTS AND TOOLS—NAMELY, PISTONS, PISTON EXPANDERS, PISTON PINS AND PARTS THEREOF, CYLINDER SLEEVES, CYLINDER SLEEVE SEALS, VALVES AND PARTS THEREOF, VALVE GUIDES, ROCKER ARM SHAFT ASSEMBLIES, MOTOR BEARINGS, BEARING BOLTS, WATER PUMPS AND PARTS THEREOF; CAM SHAFT BEARING TOOL, PISTON CHAMFERING AND DRILLING TOOL, PULLERS, VALVE GUIDE TOOLS, WATER PUMP REFACING TOOL, PISTON RESIZERS, PISTON RING FILING MACHINES.
Claims use since Jan. 1, 1933.

422,883. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) NATHAN PRODUCTS CORPORATION, New York, N. Y. Filed Aug. 10, 1945. Serial No. 487,000.

NATHAN

FOR HANDBAGS, SUITCASES, WARDROBE SUITCASES, KIT BAGS, FITTED AND UNFITTED TOILET CASES, PET CARRIERS IN THE NATURE OF A BAG WITH VENTS; AND MONEY BELTS.
Claims use since March 1937.

422,884. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) COBLENTZ BAG COMPANY, INC., New York, N. Y. Filed Aug. 11, 1945. Serial No. 487,028.

Coblentz

FOR LADIES' HANDBAGS.
Claims use since May 1935.

422,885. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) DELTA BRUSH MFG. CORP., New York, N. Y. Filed Aug. 11, 1945. Serial No. 487,036.

DUERER

FOR ARTISTS' BRUSHES.
Claims use since June 1944.

422,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ZION INDUSTRIES, INC., Zion, Ill. Filed Aug. 29, 1945. Serial No. 487,747.

Zion

FOR CANDY, COOKIES AND BAKERS' CONFECTIONS—NAMELY, CAKE KISSES, MACAROONS, AND CAKES WITH CANDY FILLINGS OR TOPPINGS.
Claims use since 1902.

422,887. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SPALDING RESEARCH LABORATORIES, INC., Lansing, Mich. Filed Sept. 14, 1945. Serial No. 488,487.

KLE-NO-MOTH

FOR CLEANING SOLUTION HAVING INCIDENTAL MOTHPROOFING PROPERTIES.
Claims use since July 15, 1944.

422,888. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT M. BLAIR, doing business as Cedar City Company, Lebanon, Ohio. Filed Sept. 17, 1945. Serial No. 488,567.

MIAMI

FOR LIQUID CLEANER FOR DISHES, PAINTED WALLS, WOODWORK, UPHOLSTERY, AUTOMOBILES, AND CLOTHING.
Claims use since May 19, 1945.

422,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. T. THOMPSON, doing business as Wm. T. Thompson Company, Los Angeles, Calif. Filed Oct. 6, 1945. Serial No. 489,543.

Multi-D

FOR YEAST POWDER CONTAINING VITAMIN D USED AS A FOOD SUPPLEMENT FOR HUMAN AND ANIMAL CONSUMPTION.
Claims use since Feb. 22, 1945.

422,890. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NEW YORK MERCHANDISE CO., INC., New York, N. Y. Filed Oct. 12, 1945. Serial No. 489,881.

Even-Shave

FOR RAZOR BLADES.
Claims use since 1930.

422,891. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW WORLD CLUB, INC., New York, N. Y. Filed Nov. 8, 1945. Serial No. 491,279.

AUFBAU
RECONSTRUCTION

FOR A WEEKLY PUBLICATION ON THE ORDER OF A DAILY NEWSPAPER.
Claims use since Dec. 1, 1934.

422,892. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) H. B. SALTER MANUFACTURING COMPANY, Marysville, Ohio. Filed Nov. 8, 1945. Serial No. 491,287.

Salter

The lining in the drawing indicates shading.
FOR PLUMBING FIXTURES—NAMELY, FAUCETS, BIBBS, BASIN COCKS, BATH COCKS, SINK FAUCETS, BUILT-IN BATHROOM FAUCETS AND VALVES, LAUNDRY TRAY FAUCETS, SHOWER HEADS, SINK AND BATHROOM DIVERTER VALVES, AND SINK BASKET STRAINERS.
Claims use since Sept. 1, 1944.

422,893. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TWIN-DENT CO., INC., New York, N. Y. Filed Nov. 8, 1945. Serial No. 491,291.

Twin-Dent

FOR TOOTHBRUSHES.
Claims use since September 1943.

422,894. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ICKO WAKMANN, doing business as Wakmann Watch Company, New York, N. Y. Filed Nov. 10, 1945. Serial No. 491,440.

WAKMANN

FOR WATCHES.
Claims use since January 1945.

422,895. (CLASS 38. PRINTS AND PUBLICATIONS.) ERNEST H. ABERNETHY PUBLISHING COMPANY, INC., Atlanta, Ga. Filed Nov. 14, 1945. Serial No. 491,538.

Southern
ADVERTISING
AND PUBLISHING

FOR MONTHLY MAGAZINE.
Claims use since February 1945.

422,896. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GUARANTEED PRODUCTS, Wellington, Ohio. Filed Nov. 26, 1945. Serial No. 492,194.

SHOX-STOK

FOR ELECTRIC FENCE CONTROLLERS.
Claims use since Mar. 30, 1940.

422,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRUITT FOOD PRODUCTS, Los Angeles, Calif. Filed Dec. 7, 1945. Serial No. 492,857.

JACQUES

FOR FRENCH DRESSING.
Claims use since Nov. 15, 1941.

422,898. (CLASS 47. WINES.) ALICE COLEMAN COLUCCI, doing business as Southern Trading Company, New York, N. Y. Filed Dec. 8, 1945. Serial No. 492,896.

Villa Armando

FOR WINE.
Claims use since Jan. 2, 1941.

422,899. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HALLETT MANUFACTURING COMPANY, Inglewood, Calif. Filed Dec. 15, 1945. Serial No. 493,350.

HALLETT

FOR METALLIC WEATHERPROOFING AND SHIELDING STRUCTURES FOR INTERNAL COMBUSTION ENGINES INTENDED TO ELIMINATE RADIO INTERFERENCE AND PREVENT DISTURBANCES CREATED BY AND IN RADIO AND OTHER ELECTRONIC DEVICES.
Claims use since Mar. 12, 1942.

422,900. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) ALBERT TROSTEL & SONS COMPANY, Milwaukee, Wis. Filed Dec. 26, 1945. Serial No. 493,899.

GOLDEN GRAIN

FOR LEATHER.
Claims use since May 4, 1945.

422,901. (CLASS 12. CONSTRUCTION MATERIALS.) CONTINENTAL CHEMICAL COMPANY, Los Angeles, Calif. Filed Dec. 31, 1945. Serial No. 494,157.

SNOWITE

FOR WHITE CEMENT AND TILE GROUT, A WHITE CEMENT POWDER USED, WHEN MIXED WITH WATER, TO FILL IN THE SPACES AND CRACKS BETWEEN PIECES OF TILE WHEREVER SAID TILE MAY BE USED.
Claims use since Oct. 17, 1938.

422,902. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOLA ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 7, 1946. Serial No. 496,170.

SOLA

FOR TRANSFORMERS, VOLTAGE REGULATORS AND COMPENSATORS, AND REACTORS.
Claims use since March 1933.

422,903. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed Feb. 8, 1946. Serial No. 496,189.

EVERSET

FOR AIR-SETTING REFRACTORY MORTAR OR CEMENT.
Claims use since Feb. 1, 1934.

422,904. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DEE'S FOR DIAMONDS, Olean, N. Y. Filed Feb. 14, 1946. Serial No. 496,547.

DEE'S for DIAMONDS

FOR JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES—NAMELY, FINGER RINGS, RING GUARDS, EARRINGS, ORNAMENTAL BRACELETS, IDENTIFICATION BRACELETS, IDENTIFICATION NECKLACES, BROOCHES, PINS, CHAINS, PEARLS, LOCKETS, NOVELTY JEWELRY, ORNAMENTAL PINS, PENDANTS, NECKLACES, CHOKERS, WATCH BRACELETS, CHARMS, BANGLES, RELIGIOUS CROSSES, RELIGIOUS STARS, COMBS AND BARETTES MADE OF PRECIOUS OR SEMI-PRECIOUS METAL, ANKLETS, MONEY CLIPS, TIE PINS, CUFF LINKS, STUDS, AND WATCH CHAINS.
Claims use since January 1935.

422,905. (CLASS 2. RECEPTACLES.) WESTERN BURLAP BAG CO., Chicago, Ill. Filed Mar. 6, 1946. Serial No. 497,760.

NU-SEME

FOR TEXTILE BAGS.
Claims use since May 13, 1930.

422,906. (CLASS 12. CONSTRUCTION MATERIALS.) ALBERT I. RANKIN, Baltimore, Md. Filed Apr. 20, 1946. Serial No. 500,630.

CORKSTONE

FOR COMPOSITION OF MATERIAL FOR USE AS A FLOOR COATING, AS REINFORCING AND STUCCO MATERIALS, AND AS BEDDING FOR LINOLEUM.
Claims use since Dec. 1, 1919.

TRADE-MARK REGISTRATIONS RENEWED

27,975. **REPRESENTATION OF A HEEL-PLATE.** HEEL-PLATES FOR BOOTS OR SHOES. Registered Mar. 17, 1896. LOUIS SACKS. Re-renewed Mar. 17, 1946, to Sacks-Barlow Foundries, Inc., Newark, N. J., a corporation of New Jersey. Class 13.

28,690. **"SHREDDED" AND REPRESENTATION OF A FISH.** SALTED AND BONELESS FISH. Registered July 28, 1896. J. W. BEARDSLEY'S SONS, New York, N. Y. Re-renewed July 28, 1946, to J. W. Beardsley's Sons, Newark, N. J., a corporation of New Jersey. Class 46.

45,389. **A. E. T. CO.** TILES AND CERAMIC WARE. Registered Aug. 15, 1905. AMERICAN ENCAUSTIC TILING CO. LTD. Re-renewed Aug. 15, 1945, to American Encaustic Tiling Company, Inc., New York, N. Y., a corporation of New York. Class 12.

45,425. **A. E. TILE CO.** TILES AND CERAMIC WARE. Registered Aug. 15, 1905. AMERICAN ENCAUSTIC TILING CO. LTD. Re-renewed Aug. 15, 1945, to American Encaustic Tiling Company, Inc., New York, N. Y., a corporation of New York. Class 12.

47,652. **REPRESENTATION OF A HEAD OF A CALF.** GELATIN. Registered Nov. 14, 1905. CHARLES B. KNOX. Re-renewed Nov. 14, 1945, to Charles B. Knox Gelatine Co. Inc., Johnstown, N. Y., a corporation of New York. Class 46.

49,149. **"B. A. FAHNESTOCK'S" AND DRAWING.** VERMIFUGE. Registered Jan. 23, 1906. B. A. FAHNESTOCK CO., Pittsburgh, Pa., a partnership. Re-renewed Jan. 23, 1946. Class 6.

50,226. **"EAGLE" AND DRAWING.** LYE AND POTASH. Registered Mar. 6, 1906. EAGLE LYE WORKS, Milwaukee, Wis. Re-renewed Mar. 6, 1946, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 6.

50,227. **"EAGLE" AND DRAWING.** LYE AND POTASH. Registered Mar. 6, 1906. EAGLE LYE WORKS, Milwaukee, Wis. Re-renewed Mar. 6, 1946, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 6.

50,616. **"JACK FROST" AND DESIGN.** BAKING-POWDER. Registered Mar. 27, 1906. JACK FROST BAKING POWDER CO., St. Louis, Mo. Re-renewed Mar. 27, 1946, to F. B. Chamberlain Company, East St. Louis, Ill., and St. Louis, Mo., a corporation of Illinois. Class 46.

50,926. **REPRESENTATION OF A SCROLL OR RIBBON.** HATS, CAPS, AND BONNETS. Registered Apr. 3, 1906. COLLINS & FAIRBANKS COMPANY. Re-renewed Apr. 3, 1946, to Wm. Filene's Sons Company, Boston, Mass., a corporation of Massachusetts. Class 39.

52,011. **"SCHLITZ" ETC. AND DRAWING.** LAGER-BEER. Registered May 1, 1906. JOSEPH SCHLITZ BREWING COMPANY. Re-renewed May 1, 1946, to Jos. Schlitz Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Class 48.

52,113. **SUNRISE.** GRAPE VINES, CUTTINGS, SCIONS, GRAFTS, ROOTS, AND STOCKS REPRODUCED FROM THE VARIETY OF GRAPES KNOWN AS "BRILLIANT" GRAPE. Registered May 1, 1906. STARK BRO'S NURSERIES & ORCHARDS COMPANY, Louisiana, Mo., a corporation of Missouri. Renewed May 1, 1946. Class 1.

52,124. **BANNER.** HYBRID SEEDLING VARIETIES OF GRAPE VINES, CUTTINGS, SCIONS, GRAFTS, ROOTS, AND STOCKS OF THE VARIETIES OF GRAPES KNOWN AS "DELAWARE" AND "LINDLEY" GRAPES. Registered May 1, 1906. STARK BRO'S NURSERIES & ORCHARDS COMPANY, Louisiana, Mo., a corporation of Missouri. Re-renewed May 1, 1946. Class 1.

52,209. **"OWL" AND DRAWING.** COFFEE. Registered May 1, 1906. MEYER BROTHERS COFFEE AND SPICE COMPANY. Re-renewed May 1, 1946, to David G. Evans Coffee Company, St. Louis, Mo., a corporation of Missouri. Class 46.

53,296. **NEWARK.** CANNED FRUITS AND VEGETABLES. Registered May 29, 1906. WAYNE COUNTY PRESERVING CO. Re-renewed May 29, 1946, to Edgett-Burnham Company, Newark, N. Y., a corporation of New York. Class 46.

53,297. **WAYNE BRAND.** CANNED FRUITS AND VEGETABLES. Registered May 29, 1906. WAYNE COUNTY PRESERVING CO. Re-renewed May 29, 1946, to Edgett-Burnham Company, Newark, N. Y., a corporation of New York. Class 46.

54,399. **PORTRAIT OF GENERAL ANTHONY WAYNE.** CANNED FRUITS AND VEGETABLES. Registered June 26, 1906. WAYNE COUNTY PRESERVING CO. Re-renewed June 26, 1946, to Edgett-Burnham Company, Newark, N. Y., a corporation of New York. Class 46.

54,554. **REPRESENTATION OF A RED BAND OR STRIP.** SALTED AND BONELESS FISH. Registered June 26, 1906. J. W. BEARDSLEY'S SONS, New York, N. Y. Re-renewed June 26, 1946, to J. W. Beardsley's Sons, Newark, N. J., a corporation of New Jersey. Class 46.

55,627. **APEX.** COFFEE. Registered Aug. 21, 1906. THE WOOLSON SPICE COMPANY, Toledo, Ohio, a corporation of Ohio. Re-renewed August 21, 1946. Class 46.

55,855. **THE BAR-KEEPER'S "FRIEND".** COMPOUND FOR POLISHING METALS, WOOD, GLASS, AND MARBLE. Registered Aug. 21, 1906. GEORGE WILLIAM HOFFMAN. Re-renewed Aug. 21, 1946, to Marie R. Miller, Indianapolis, Ind. Class 4.

55,907. **P S C O.** SCARF-PINS, STICK-PINS, BROOCHES, BRACELETS, CHAINS, CHARMS, SLEEVE AND SHIRT BUTTONS. Registered Aug. 21, 1906. PLAINVILLE STOCK COMPANY. Re-renewed Aug. 21, 1946, to Plainville Stock Company, Plainville, Mass., a corporation of Massachusetts. Class 28.

56,101. **SABO.** COFFEE. Registered Aug. 21, 1906. THE WOOLSON SPICE COMPANY, Toledo, Ohio, a corporation of Ohio. Re-renewed Aug. 21, 1946. Class 46.

56,227. **EMPIRE.** ABRASIVE PAPER AND CLOTH. Registered Sept. 4, 1906. HERMAN BEHR & CO., New York, N. Y. Re-renewed Sept. 4, 1946, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts. Class 4.

204,981. **E-KLIP-SOL.** CLEANING FLUIDS ESPECIALLY DESIGNED FOR CLEANING FABRICS. Registered Oct. 27, 1925. BIRCHARD CHEMICAL WORKS. Renewed Oct. 27, 1945, to The Birchard System Incorporated, Hartford, Conn., a corporation of Connecticut. Class 4.

208,841. **"C" AND DESIGN.** OPEN-HEARTH, CRUCIBLE AND ELECTRIC STEEL PLATES, SHEETS, AND BARS. Registered Feb. 9, 1926. COLONIAL STEEL COMPANY, Pittsburgh, Pa. Renewed Feb. 9, 1946, to Vanadium-Alloys Steel Company, Latrobe, Pa., a corporation of Pennsylvania. Class 14.

209,899. **COLONOL LIQUID PARAFFIN.** LIQUID PARAFFIN FOR MEDICINAL PURPOSES FOR HUMAN USE. Registered Mar. 2, 1926. COLONOL, LIMITED, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed Mar. 2, 1946. Class 6.

210,181. **"POLI-CLOTH" ETC.** COTTON POLISHING CLOTHS NOT TREATED. Registered Mar. 9, 1926. JAMES KENYON & SON, LIMITED, Bury, England, a corporation of the Kingdom of Great Britain and Northern Ireland. Renewed Mar. 9, 1946. Class 42.

210,615. **REPRESENTATION OF RED BAND DISPOSED HELICALLY ON HOSE.** RUBBER-COVERED HOSE. Registered Mar. 16, 1926. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed Mar. 16, 1946. Class 35.

210,684. **WILSON'S O. K. PLANT SPRAY.** INSECTICIDES. Registered Mar. 23, 1926. ANDREW WILSON, INC., Springfield, N. J., a corporation of New Jersey. Renewed Mar. 23, 1946. Class 6.

210,748. **BAKELITE.** ORNAMENTATION SIMULATING BEADED DESIGNS ON COTTON, SILK, ARTIFICIAL SILK, AND WOOL FABRICS. Registered Mar. 23, 1926. BAKELITE CORPORATION. Renewed Mar. 23, 1946, to Bakelite Corporation, New York, N. Y., a corporation of New Jersey. Class 42.

210,827. **"B" AND DESIGN.** ORNAMENTATION SIMULATING BEADED DESIGNS ON COTTON, SILK, ARTIFICIAL SILK, AND WOOL FABRICS. Registered Mar. 23, 1926. BAKELITE CORPORATION. Renewed Mar. 23, 1946, to Bakelite Corporation, New York, N. Y., a corporation of New Jersey. Class 42.

210,900. **"GOPHER" AND DRAWING.** CERTAIN NAMED CANNED BERRIES, FRUITS AND VEGETABLES; DRIED CURRANTS, RAISINS AND PRUNES, CANNED SALMON, OYSTERS AND SARDINES; PRESERVED BLACKBERRIES, GOOSEBERRIES AND STRAWBERRIES; PAPRIKA, GINGER, BLACK PEPPER, CINNAMON, MUSTARD, CIDER VINEGAR, OLIVE OIL, TAPIOCA, CORNSTARCH FOR FOOD PURPOSES, COFFEE, TEA, BIRDSEED, GROUND MACE AND NUTMEG, AND FOOD-FLAVORING EXTRACTS. Registered Mar. 23, 1926. FOLEY BROS. GROCERY CO. Renewed Mar. 23, 1946, to Griggs, Cooper & Company, St. Paul, Minn., a corporation of Delaware. Class 46.

211,208. **KODALINE.** LIGHT-SENSITIVE PHOTOGRAPHIC PAPER. Registered Apr. 6, 1926. EASTMAN KODAK COMPANY. Renewed Apr. 6, 1946, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Class 26.

211,281. **ENDURO.** RUST-RESISTING ANTI-CORROSIVE METAL AND IRON AND STEEL BARS, SLABS, BILLETS, SHEETS, AND STRIPS. Registered Apr. 6, 1926. UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio. Renewed Apr. 6, 1946, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey. Class 14.

212,301. **AQUAROCK.** WATERPROOF AND RAINPROOF CLOTHING—NAMELY, MEN'S, YOUTHS', AND BOYS' SUITS AND OVERCOATS. Registered Apr. 27, 1926. J. WEINBERG AND SONS. Renewed Apr. 27, 1946, to J. Weinberg & Sons (1927) Limited, Cheetham, Manchester, England, a British corporation. Class 39.

212,371. **CROSS COUNTRY.** AUTOMOBILE TIRES AND INNER TUBES. Registered May 4, 1926. NATIONAL CLOAK & SUIT CO., New York, N. Y. Renewed May 4, 1946, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York. Class 35.

213,045. **EZSHINE.** SHOE POLISHES. Registered May 18, 1926. IT SHOE POLISH CO., INC. Renewed May 18, 1946, to It Shoe Polish Products Inc., Baltimore, Md., a corporation of Maryland. Class 4.

213,360. **"SOUTHERN CAKE" AND DESIGN.** CAKE. Registered May 25, 1926. CAROLINA BAKING COMPANY, Charlotte, N. C. Renewed May 25, 1946, to Columbia Baking Company, Wilmington, Del., a corporation of Delaware. Class 46.

213,641. **"VANITABS V" AND DESIGN.** POWDER PUFFS. Registered June 1, 1926. OXZYN COMPANY, New York, N. Y. Renewed June 1, 1946, to Oxzyn Company, Clifton, N. J., a corporation of New Jersey. Class 29.

213,664. **RAT-TOX.** RODENT EXTERMINATOR. Registered June 1, 1926. THE TOLEDO REX SPRAY COMPANY, Toledo, Ohio, assignor to Rex Research Corporation. Renewed June 1, 1946, to Rex Research Corporation, Toledo, Ohio, a corporation of Delaware. Class 6.

213,818. **"FLY-TOX" AND DESIGN.** INSECTICIDE. Registered June 8, 1926. THE REX COMPANY, Kansas City, Mo. Renewed June 8, 1946, to Rex Research Corporation, Toledo, Ohio, a corporation of Delaware. Class 6.

213,957. **"LUCKY STAR".** PERFUMES. Registered June 8, 1926. LUCKY STAR MFG. CO. Renewed June 8, 1946, to Mitchell J. Miller, doing business as Lucky Star Mfg. Co., Cincinnati, Ohio. Class 6.

214,079. **"LIGHTNING".** SANDPAPER. Registered June 15, 1926. NATIONAL SANDING MACHINE COMPANY, Chicago, Ill. Renewed June 15, 1946, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts. Class 4.

214,777. **"TEENIE WEENIE" AND DRAWING.** CANNED SARDINES. Registered July 6, 1926. REID, MURDOCH & CO., Chicago, Ill., a corporation of Illinois. Renewed July 6, 1946. Class 46.

215,123. **GILT EDGE.** LEATHER POLISHES. Registered July 13, 1926. WHITTEMORE BROS. CORP., Cambridge, Mass., a corporation of Massachusetts. Renewed July 13, 1946. Class 4.

215,124. **DANDY.** SHOE POLISH AND LEATHER DRESSINGS. Registered July 13, 1926. WHITTEMORE BROS. CORP., Cambridge, Mass., a corporation of Massachusetts. Renewed July 13, 1946. Class 4.

215,126. **BON-TON.** POLISHES FOR LEATHER GOODS. Registered July 13, 1926. WHITTEMORE BROS. CORP., Cambridge, Mass., a corporation of Massachusetts. Renewed July 13, 1946. Class 4.

215,131. **FORTITUDO.** ALIMENTARY PASTES. Registered July 13, 1926. THE F. PEPE MACARONI CO. INC., Waterbury, Conn., a corporation of Connecticut. Renewed July 13, 1946. Class 46.

215,264. **"FOUNTAIN PEN VELLUM" ETC.** WRITING PAPER AND MAILING ENVELOPES. Registered July 13, 1926. WESLEY & WINTER, INC., Newark, N. J. Renewed July 13, 1946, to Wesley & Winter, Inc., Linden, N. J., a corporation of New Jersey. Class 37.

215,395. **SAVAL.** FOOD FOR DOGS. Registered July 20, 1926. SPILLERS VICTORIA FOODS, LIMITED. Renewed July 20, 1946, to Spillers Limited, London, England, a corporation of Great Britain. Class 46.

215,464. **"NIP GRAPE" AND DRAWING.** NONALCOHOLIC, MALTLESS FRUIT BEVERAGE SOLD AS A SOFT DRINK. Registered July 20, 1926. CHERO-COLA COMPANY. Renewed July 20, 1946, to Nehi Corporation, Columbus, Ga., a corporation of Delaware. Class 45.

215,484. **"MARY T. GOLDMAN" ETC. AND DESIGN.** HAIR-COLOR RESTORERS. Registered July 20, 1926. BENJAMIN T. GOLDMAN, St. Paul, Minn. Renewed July 20, 1946, to Monroe Chemical Company, Quincy, Ill., a corporation of Maryland. Class 6.

215,595. **KENKOTE.** COATED AND IMPREGNATED FABRICS IN THE NATURE OF ARTIFICIAL LEATHER. Registered July 20, 1926. KENWORTHY BROTHERS COMPANY, Stoughton, Mass. Renewed July 20, 1946, to Kenworthy Brothers Company, Westboro, Mass., a corporation of Massachusetts. Class 50.

216,012. **KANT-RUST.** LUBRICATING OILS, GREASES, AND PENETRANTS. Registered Aug. 3, 1926. KANT-RUST PRODUCTS CORPORATION, Rahway, N. J. Renewed Aug. 3, 1946, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Class 15.

216,121. **"BEHR" ETC. AND DRAWING.** ABRASIVE PAPERS AND CLOTHS. Registered Aug. 3, 1926. HERMAN BEHR & COMPANY, INCORPORATED, Brooklyn, N. Y. Renewed August 3, 1946, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massschusetts. Class 4.

216,286. **EROS.** LEAD PENCILS OF ALL KINDS. Registered Aug. 10, 1926. KOHINOOR PENCIL FACTORY L. & C. HARDTMUTH, in Budweis, Budweis, Czechoslovakia. Renewed Aug. 10, 1946, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey. Class 37.

216,319. **RIMLITE.** OPHTHALMIC MOUNTINGS. Registered Aug. 10, 1926. SHUR-ON STANDARD OPTICAL COMPANY, INC. Renewed Aug. 10, 1946, to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York. Class 26.

216,358. **SHOREWOOD.** UNDERWEAR OF KNITTED AND TEXTILE FABRICS, AND INFANTS' WRAPPERS OF KNITTED AND TEXTILE FABRICS. Registered Aug. 10, 1926. SHOREWOOD MILLS, Milwaukee, Wis., a corporation of Wisconsin. Renewed Aug. 10, 1946. Class 39.

216,449. **FROSTONE.** COATED PAPERS. Registered Aug. 10, 1926. MCLAURIN-JONES CO., Brookfield, Mass., a corporation of Massachusetts. Renewed Aug. 10, 1946. Class 37.

216,509. **RAINDRI.** TOPCOATS AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. Registered Aug. 10, 1926. L. GREIF & BRO., INCORPORATED, Baltimore, Md., a corporation of Maryland. Renewed Aug. 10, 1946. Class 39.

216,856. **"BUCKEYE DUCK" AND DESIGN.** COTTON DUCK CLOTH IN THE GRAY, THAT IS, IN THE ORIGINAL PIECE AS IT COMES FROM THE LOOM. Registered Aug. 24, 1926. PALMETTO COTTON MILLS, INCORPORATED, Palmetto, Ga., a corporation of Georgia. Renewed Aug. 24, 1946. Class 42.

216,876. **HILLS HONEY & TAR.** COMPOUND FOR TREATING COUGHS AND COLDS. Registered Aug. 24, 1926. LAURENCE E. CASH, doing business as New York Drug Concern. Renewed Aug. 24, 1946, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Delaware. Class 6.

216,965. **"A L" ETC.** TOILET CREAM. Registered Aug. 24, 1926. ANN G. LEARY, Lowell, Mass. Renewed Aug. 24, 1946, to Ann Leary, Brookline, Mass. Class 6.

217,090. **LADY GRACE.** PICKLES. Registered Aug. 24, 1926. W. & W. PICKLE AND CANNING COMPANY, also doing business as Lady Grace Pickle Company, Montgomery, Ala., a corporation of Alabama. Renewed Aug. 24, 1946. Class 46.

217,091. **GREEN BEAUTY.** PICKLES. Registered Aug. 24, 1926. W. & W. PICKLE AND CANNING COMPANY, also doing business as Lady Grace Pickle Company, Montgomery, Ala., a corporation of Alabama. Renewed Aug. 24, 1946. Class 46.

217,095. **"BLACK ROSE" AND DRAWING.** COAL. Registered Aug. 24, 1926. HOMER C. GILL, Columbus, Ohio. Renewed Aug. 24, 1946. Class 1.

217,096. **"GILCOL" AND DRAWING.** COAL. Registered Aug. 24, 1926. HOMER C. GILL, Columbus, Ohio. Renewed Aug. 24, 1946. Class 1.

217,350. **"ROYAL WORCESTER" ETC. AND DESIGN.** ADHESIVE BELT CEMENT. Registered Aug. 31, 1926. THE GRATON & KNIGHT MANUFACTURING COMPANY. Renewed Aug. 31, 1946, to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts. Class 5.

217,411. **SIMPLEX.** PAPER CLIPS. Registered Aug. 31, 1926. NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y. Renewed Aug. 31, 1946, to Noesting Pin Ticket Company, Incorporated, of New York, N. Y., a corporation of New York. Class 37.

217,455. **PANOTINE.** PAINT DRIER. Registered Aug. 31, 1926. PANHANDLE REFINING COMPANY, Wichita Falls, Tex., a corporation of Texas. Renewed Aug. 31, 1946. Class 16.

217,593. **REPRESENTATION OF A SPRING TENSION INDICATING SCALE ETC.** ADHESIVE CEMENT. Registered Sept. 7, 1926. VICTOR F. VAN STAN. Renewed Sept. 7, 1946, to Arthur J. Van Stan, doing business as V. F. Van Stan Co., Philadelphia, Pa. Class 5.

217,598. **"BLACK LEADER" ETC. AND DRAWING.** COAL. Registered Sept. 7, 1926. HOMER C. GILL, Columbus, Ohio. Renewed Sept. 7, 1946. Class 1.

217,629. **WOOD'S DIXIE LAWN GRASS.** GRASS SEED. Registered Sept. 7, 1926. T. W. WOOD & SONS, Richmond, Va., a firm. Renewed Sept. 7, 1946. Class 1.

217,634. **PATAPAR.** PAPER EMPLOYED FOR PACKING BUTTER, CHEESE, LARD, MEATS, AND OTHER SIMILAR FOOD PRODUCTS. Registered Sept. 7, 1926. THE PATERSON PARCHMENT PAPER CO., Passaic, N. J. Renewed Sept. 7, 1946, to The Paterson Parchment Paper Company, Bristol, Pa., a corporation of Pennsylvania. Class 37.

217,644. **S & G.** COMBINATION LOCKS. Registered Sept. 7, 1926. SARGENT & GREENLEAF, INC., Rochester, N. Y., a corporation of New York. Renewed Sept. 7, 1946. Class 25.

217,701. **ACME.** BRACELETS AND WATCH BRACELETS. Registered Sept. 7, 1926. ACME WATCH CASE CO., New York, N. Y., a firm. Renewed Sept. 7, 1946. Class 28.

217,708. **"HICO" AND DESIGN.** WHEAT FLOUR. Registered Sept. 7, 1926. H. H. COOK, San Francisco, Calif. Renewed Sept. 7, 1946. Class 46.

217,728. **"HILL AND DALE" AND DESIGN.** LEATHER SHOES. Registered Sept. 7, 1926. DIXON-BARTLETT COMPANY, Baltimore, Md., a corporation of West Virginia. Renewed Sept. 7, 1946. Class 39.

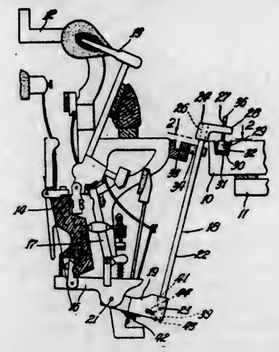
217,755. **CAR-LOAD.** CANDY AND CANDY BARS. Registered Sept. 7, 1926. THE SHOTWELL MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed Sept. 7, 1946. Class 46.

217,862. **PYRIDIUM.** AZO DYES OF THE PYRIDINE SERIES DESIGNATED UNDER THE GROUP NAME "PYRIDIUM". Registered Sept. 14, 1926. THE PYRIDIUM CORPORATION, New York, N. Y. Renewed Sept. 14, 1946, to Pyridium Corporation, Yonkers, N. Y., a corporation of New York. Class 6.

REISSUES

AUGUST 13, 1946

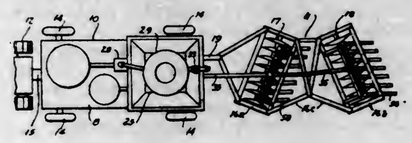
22,777
PIANO ACTION
William G. Betz, Orlando, Fla., assignor to Pratt, Read & Company, Ivoryton, Conn., a corporation of Connecticut
Original No. 2,367,192, dated January 16, 1945, Serial No. 347,877, July 27, 1940. Application for reissue January 15, 1946, Serial No. 641,187
23 Claims. (Cl. 84—240)



23. In a piano action for operative connection with piano keys and adapted to be moved in and out of, and mounted in a piano as a complete unit assembly, the combination including abstract means having the body thereof adapted to be positioned rearwardly of a corresponding key when the action is mounted in a piano and of a length to extend below the level of such key, said abstract means having a pivotal connection at the bottom part for connecting it into the action and having at its top part a forward extension overhanging the rear end of such key for operative connection therewith, cooperating means in the action which is lower than the level of the forward extension but adjacent thereto and which is positioned laterally of the abstract body, with one of said two means including an opening therein and the other of said means having a portion in a substantially L-shaped configuration with a terminated part thereof extending downwardly, being in said opening, and remaining therein upon up and down movement of one of said means when the piano action is operated upon playing the piano.

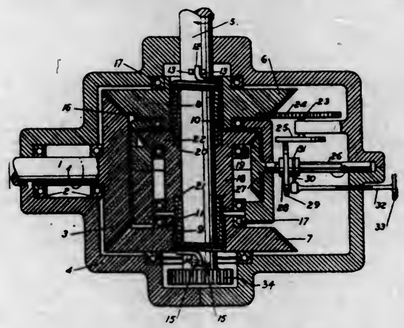
22,778
APPARATUS FOR STERILIZING SOIL
Burr B. Elliott, Seattle, Wash., assignor to Isaacson Iron Works, Seattle, Wash., a corporation of Washington
Original No. 2,272,190, dated February 10, 1942, Serial No. 282,825, July 4, 1939. Application for reissue March 26, 1946, Serial No. 657,120
3 Claims. (Cl. 111—7)

1. A mobile apparatus for sterilizing soil comprising means for maintaining a supply of superheated steam, means for turning furrows of soil, a pipe system for the discharge of superheated steam from the supply into the ground beneath the turned soil and including a section of pipe of increased diameter at the discharge end of the pipe system in which the steam will expand and



its pressure be reduced with no material loss of heat.

22,779
TORQUE AMPLIFIER
Willard E. Swift, Jr., Worcester, Mass.
Original No. 2,355,686, dated August 15, 1944, Serial No. 503,831, September 25, 1943. Application for reissue March 30, 1945, Serial No. 585,761
12 Claims. (Cl. 74—388)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

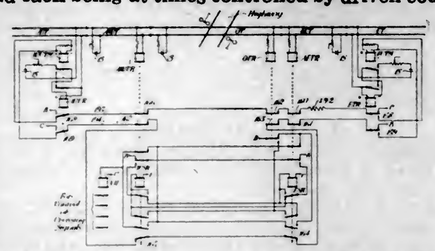


1. A torque amplifier comprising drive and driven shafts, a revoluble element coaxial with said driven shaft, means connecting said revoluble element to said drive shaft, a member journaled on said driven shaft, a coil spring surrounding said driven shaft and received loosely in said element; said spring having one end anchored to said driven shaft and the other end frictionally connected to said member, a variable speed device, means for driving the input of said variable speed device and means connecting the output side of said variable speed device to said member.

22,780
RAILWAY TRAFFIC CONTROLLING APPARATUS
James J. Van Horn, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Original No. 2,344,333, dated March 14, 1944, Serial No. 412,279, September 25, 1941. Application for reissue January 25, 1945, Serial No. 574,587
53 Claims. (Cl. 246—3)

53. In a coded track circuit centralized traffic control system for a stretch of single track having

a highway crossing with highway crossing protection signals associated therewith, an approach track section having a steadily energized track relay and located on each side of said highway crossing for operating the crossing signals when a train is approaching the crossing in either direction, means manually controlled from a remote control office for transmitting driven code pulses over the track rails of said stretch in either selected direction towards said approach track sections, a pair of line wires having their continuity controlled by the track relays of both of said approach sections for communicating driven code pulses received from either end of the stretch around both of said approach track sections toward the other end of the stretch, and code responsive means at each end of said stretch associated with signals governing traffic thereover and each being at times controlled by driven codes

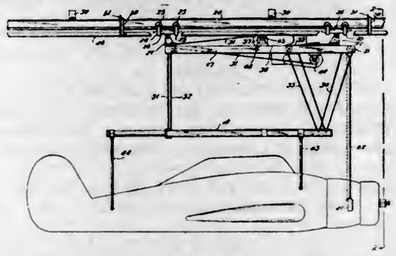


transmitted in part over track rails of said stretch and in part over said pair of line wires.

PATENTS

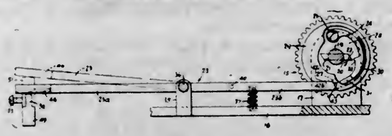
GRANTED AUGUST 13, 1946

2,405,544
METHOD OF ASSEMBLING AIRPLANES AND THE LIKE
Alphonse F. Anjeskey, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application March 16, 1943, Serial No. 479,316
2 Claims. (Cl. 29—148.2)



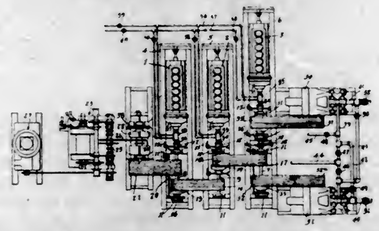
1. The method of manufacturing or handling during manufacture a comparatively large bulky device such as an airplane, which comprises supporting entirely from overhead a part of the device to be manufactured for horizontal movement over a portion of a floor area adapted to be occupied by workmen by connecting the same to an overhead carrier, moving said part horizontally over a portion of said floor area by moving said carrier, maintaining said part free from sway in all directions by overhead means during a portion of its movement over said area, supporting from overhead a second part of the device to be manufactured for horizontal movement over a portion of said floor area by connecting the same to a second overhead carrier, bringing said parts together while so supported, varying the relative height of the parts to align the same above said floor area by effecting movement between various parts of one of the carriers, and connecting said parts together.

2,405,545
AUTOMATIC CLUTCH
George Antos and Emmerich Weber, New York, N. Y.
Application November 15, 1943, Serial No. 510,264
4 Claims. (Cl. 192—28)



1. In an automatically operated clutch including a constantly rotating shaft and a member to be driven at intervals freely mounted thereon, a toothed element fixed on said shaft, a hub-like projection on said member, said projection containing a chambered recess and an indentation in its exterior, a pawl pivoted in the recess and having a part engageable with said toothed element, a spring urging the pawl into engagement, said pawl having its free end extending into the indentation, a spring-raised tiltable lever arm to intercept the pawl end when in a raised position thereby to displace the same from the toothed element, a leaf pivoted to said arm and normally spring-pressed against said hub-like projection to serve as a brake, and adjustable means for actuating said arm.

2,405,546
WELL DRILLING PLANT
Merton T. Archer, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application September 2, 1938, Serial No. 228,135. Divided and this application October 13, 1941, Serial No. 414,712
8 Claims. (Cl. 255—19)



1. A power plant for a rotary drilling rig, having in combination a pair of engines disposed in parallel side-by-side relationship and provided with parallel extension shafts, a power take-off element rotatably mounted on the second of said extension shafts, a drive element rotatably mounted on the first of said extension shafts, releasable clutch means adapted to connect each of said elements to its respective extension shaft, an idler member rotatably mounted coaxially with respect to the second extension shaft, releasable clutch means to place the idler member in direct driving relation with the second extension shaft, said idler member being provided with a driven element and an axially spaced power take-off element adapted to rotate as a unit, and power transmission connections between said driven element and said drive element on the first extension shaft.

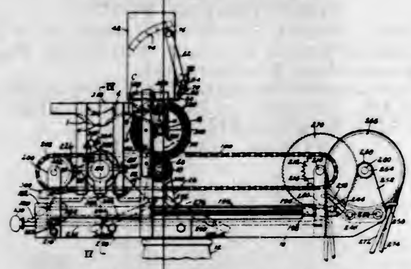
2,405,547
INGROWN NAIL CORRECTING DEVICE
Harold C. Armagost, Temple City, Calif.
Application April 26, 1945, Serial No. 590,342
2 Claims. (Cl. 128—81)



1. An appliance for correcting ingrown nails and other malformations of the nails, comprising a spring wire of modified V-shape form and having its end portions curved spirally outward and then rearwardly toward the base of the V form then inwardly to proximity to the wire to provide portions adapted to be placed beneath

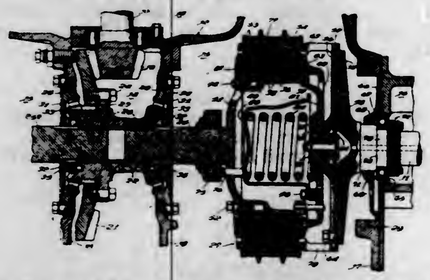
the front edges of the nail, whereby the portions of the wire adjacent to the spirally curved portions resting on the nail press it downwardly while the rearwardly extended parts of the end portions press the outer side edges of the nail upwardly.

2,405,548
COUNTER PASTING MACHINE
Charles Martin Bagshaw, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 4, 1943, Serial No. 512,924
In Great Britain January 27, 1943
26 Claims. (Cl. 12—80)



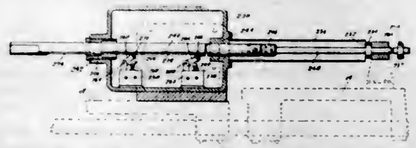
1. In a machine for applying adhesive to a premolded counter having diverging legs, applicator means, means for supporting the counter, means for causing relative movement of said means lengthwise of a leg in such a direction as to bring together the counter and the applicator means first at a point spaced from the end of one leg of the counter and then to move one over the other to spread the adhesive over an adjacent portion of the counter, leaving a clean margin at the first end.

2,405,549
FINAL DRIVE STRUCTURE FOR CRAWLER TRACTORS
William O. Bechman, Harry A. Land, and Russel D. Acton, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 26, 1944, Serial No. 542,142
3 Claims. (Cl. 74—606)



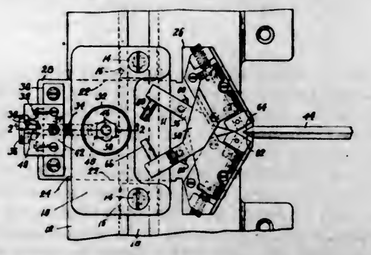
1. In a vehicle power transmitting apparatus employing a lubricant-free clutch for transmitting power from a lubricated gearing; the combination of a vehicle frame housing comprising a lubricant-containing compartment for said gearing and an adjacent lubricant-dry clutch compartment for said clutch, said gear compartment including opposite walls of which one separates said compartments and contains a drive shaft opening, a tubular driving member journaled in the gear compartment in axial registration with said wall opening and rotatively drivable by said gearing, a clutch driving shaft having a portion telescopically in said tubular member and constrained for rotation therewith, said shaft having a second portion projecting endwise from the tubular member and through said wall opening into detachable driving connection with said clutch to facilitate endwise retraction of the detached shaft from the clutch pursuant to projection of the one portion of the shaft further into said tubular member and thereby providing clearance for removal of the clutch from the clutch compartment transversely of said shaft, and sealing means between the tubular driving member and each of said walls to cooperate with said driving member in preventing leakage of lubricant from the gear compartment through said wall opening into the clutch compartment.

2,405,550
PROFILE MILLING MACHINE
Benjamin S. T. Bishop, Shrewsbury, and Frank A. Bicknell, Worcester, Mass., assignors to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts
Application December 9, 1943, Serial No. 513,552
18 Claims. (Cl. 90—13.5)



1. In a milling machine having a rotating cutter and a work holding carriage movable to present work held thereon to the action of the cutter, the combination therewith of means for feeding the carriage in direction toward the cutter including a plural-speed electric motor, a track on the carriage extending longitudinally of the machine generally in the directions of travel of the carriage, electrical connections between the motor and carriage including a speed-change switch constantly engaging said track and relative to which said track is bodily movable in the directions of its longitudinal extent, and means on said track for effecting a speed-changing actuation of said switch and for maintaining the switch in the actuated position throughout only a predetermined distance of movement of said carriage.

2,405,551
GRINDING WHEEL TRUING APPARATUS
Benjamin S. T. Bishop, Shrewsbury, and Frank A. Bicknell, Worcester, Mass., assignors to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts
Application June 8, 1944, Serial No. 539,358
6 Claims. (Cl. 125—11)

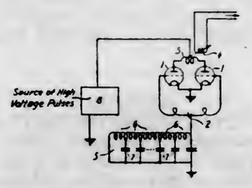


1. Grinding wheel truing apparatus comprising a fixed gage having a tapered part with faces

angularly related precisely corresponding to the angular relation of the bevelled edge faces of a wheel which is to be trued, a horizontal support below and forward of said gage, a pair of arms pivotally mounted on said support and independently swingable on angularly related axes, a wheel truing element adjustably mounted on each said arm, said arms being adapted to rest on said support in generally horizontal positions below and forward of the gage, and means for swinging one said arm to bring its said truing element to position for adjusting its setting relative to a said gage surface while the other arm continues in its said generally horizontal position.

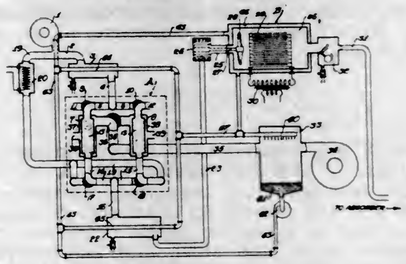
3. In a grinding machine having a grinding wheel and having a fixed horizontal surface below and forward of the wheel above which surface is the work position of the machine, wheel truing apparatus comprising a horizontal base adapted to be mounted on said fixed horizontal surface below and forward of the grinding wheel, a pair of arms pivotally mounted on said base and independently swingable on angularly related axes, a wheel truing element mounted on each arm, said arms being adapted to rest idly on said base in generally horizontal positions when a grinding operation is being performed by said wheel on work in said work position, and means for swinging one said arm independently of the other arm to bring its said truing element into truing engagement with the grinding wheel when said work position is vacant.

2,405,552
PULSE GENERATING THERMIONIC VALVE APPARATUS
Alan Dower Blumlein, Ealing, London W. 5, and Eric Lawrence Casling White, Hillingdon, England, assignors to Electric & Musical Industries Limited, Hayes, England, a corporation of Great Britain
Application June 13, 1942, Serial No. 446,973
In Great Britain June 17, 1940
4 Claims. (Cl. 250—36)



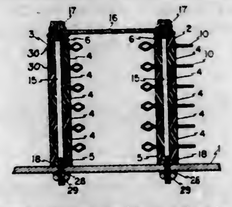
1. Apparatus for generating pulses of oscillations of a predetermined frequency comprising an oscillatory circuit tuned to said predetermined frequency and at least one thermionic valve having electrodes including a cathode, anode and a control electrode, means for applying exciting pulses to said valve so as to cause said valve to set up oscillations at said frequency in said oscillatory circuit and means for biassing said control electrode to a positive potential in relation to said cathode at a predetermined time after the application of each of said exciting pulses so as to reduce the impedance between said control electrode and cathode and thereby to increase the damping of said oscillatory circuit to cause the oscillations therein to decay more rapidly after the termination of each of said exciting pulses.

2,405,553
MEANS AND METHOD OF OZONIZING LIQUIDS
Donald K. Allison, Beverly Hills, Calif.
Application June 7, 1941, Serial No. 397,070
12 Claims. (Cl. 210—27)



1. A method of ozonizing liquids, characterized by: driving with compressed air an expansion engine, thereby expanding and reducing the pressure and temperature of the air; delivering the expanded air to an ozonizer chamber having a moving element therein to recirculate the air in said chamber; driving by the expansion engine said moving element, subjecting the air in the chamber to electrical discharge to ozonize the same, and then intimately mixing the ozonized air with the liquid to be treated.

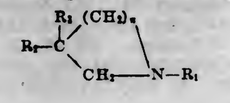
2,405,554
MOUNTING STACK
Charles W. Barbour, Jr., Marblehead, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application July 20, 1944, Serial No. 545,848
7 Claims. (Cl. 173—328)



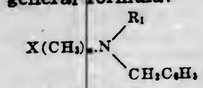
1. An electrical mounting stack comprising a pair of similar supporting columns each built up of insulating sections joined in mortise and tenon joints with electrical terminal elements having sections with holes conforming in shape to the tenon and positioned between insulating sections.

2,405,555
MANUFACTURE OF HETEROCYCLIC BASES
Franz Bergel, Nathan Chadwick Hindley, Alexander Lang Morrison, and Heinrich Rinderknecht, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application October 15, 1942, Serial No. 462,156. In Great Britain November 19, 1941
6 Claims. (Cl. 260—294)

1. A process for the manufacture of heterocyclic bases of the general formula:



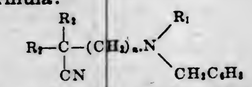
which comprises condensing an amino alkyl halide of the general formula:



in the presence of an alkaline condensing agent with an arylacetonitrile derivative of the general formula:

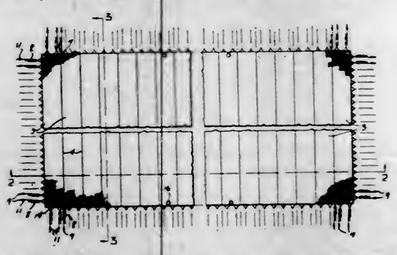


where X is a halogen atom, n is an integer not less than 2 and not greater than 3, R_1 is a radical selected from the group consisting of alkyl and aryl groups, R_2 is an aryl group, and R_3 is selected from the group consisting of a hydrogen atom, and alkyl, aryl and esterified carboxyl radicals, to form a compound of the general formula:



where n is an integer not less than 2 and not greater than 3, R_1 is a radical selected from the group consisting of alkyl and aryl groups, R_2 is an aryl group, and R_3 is selected from the group consisting of a hydrogen atom, and alkyl, aryl and esterified carboxyl radicals, hydrogenating said compound under acid conditions in the presence of a hydrogenation catalyst and making the hydrogenation mixture alkaline.

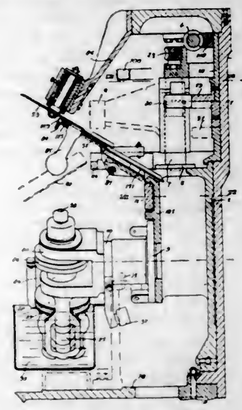
2,405,556
AIRCRAFT LANDING NET
Homer T. Bogle, United States Navy
Application December 2, 1942, Serial No. 467,663
9 Claims. (Cl. 94—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A landing net composed of a series of flexible sections flexibly joined together side edge to side edge open hooks and lacing wire or cable forming said joints and mooring means distributed equally around the outer edges of the net and fastened to suitable anchors to stretch the net over ground otherwise unsuitable for landing, the ends of said lacing wire or cable being used for a portion of the distributed mooring means.

2,405,557
APPARATUS FOR MANUFACTURING HOLLOW GLASS ARTICLES
Emile Robert Bonnefoy-Cudraz, Courbevoie, France; vested in the Alien Property Custodian
Application January 24, 1941, Serial No. 375,868
In France January 9, 1940
10 Claims. (Cl. 49—5)

1. In an apparatus for the manufacture of hollow articles by blowing and molding from separate masses of plastic glass delivered on perforated work-tables, a movable series of tilting work-tables, actuating means for the said series



of tables, a knife in fixed position on an inclined plane, and fixed means near the said knife to bring by rocking the top of the tables in the plane of the knife.

2,405,558
TERPENE POLYMER
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 11, 1941, Serial No. 382,739
9 Claims. (Cl. 260—80)

1. The method of preparing a hard stable resin of color below about 5 Amber which comprises bringing a beta-pinene terpene fraction containing beta-pinene in excess of 50% of the terpenes present into reactive contact at a temperature below about 0° C. with a fluoride of boron as a polymerization catalyst to form a resin polymer of beta-pinene having a drop melting point above about 120° C. and a molecular weight above about 1000, and separating the catalyst from the said resin.

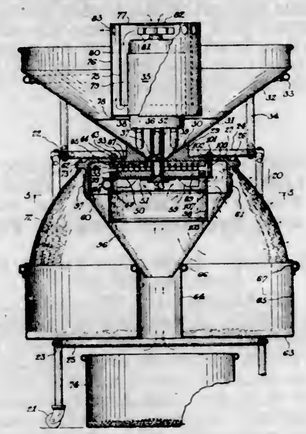
2,405,559
COMPOSITIONS OF MATTER
Euclid W. Bousquet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 3, 1943, Serial No. 501,135
3 Claims. (Cl. 260—326)

1. A composition of matter comprising an amyl imide of 3,6-endomethylene-4-cyclohexene-1,2-dicarboxylic acid.

2,405,560
FUEL
John M. Campbell, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application February 6, 1943, Serial No. 475,003
1 Claim. (Cl. 44—69)

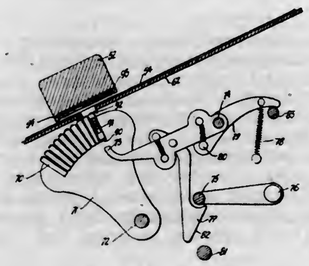
A leaded-gasoline for use in spark-ignition internal combustion engines containing a small amount of a tributyl phosphite, said small amount being not greater than about .1% of the fuel by volume.

2,405,561
GRAIN PROCESSING MACHINE
Lawrence E. Egedal, Milwaukee, Wis.
Application August 2, 1943, Serial No. 497,023
11 Claims. (Cl. 241—162)



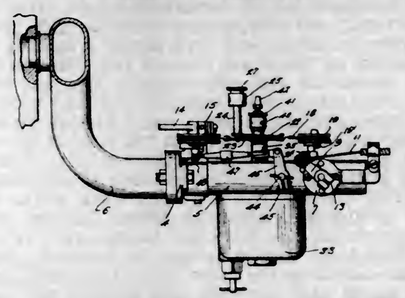
6. A device of the character described, comprising a rotor having an abrasive upper surface and having a generally vertical axis of rotation, a member above said abrasive surface having grooves extending about the axis of rotation and having a bore between said grooves, channel-forming ribs extending in said grooves and having their lower edges adjacent to the abrasive surface of the rotor, and rib-fastening means comprising a split expansion plug fitting in said bore and laterally engaging the adjacent ribs.

2,405,562
APPARATUS FOR PRINTING
Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application September 13, 1943, Serial No. 502,379
4 Claims. (Cl. 101—96)



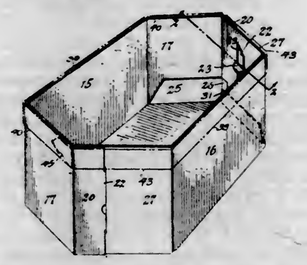
1. In an office machine, such as a calculating machine, a casing for housing the mechanism thereof, means for supporting paper on which a printed record of calculations is to be made at the exterior of the casing and within the field of view of the operator, a platen disposed in front of said paper supporting means, a ribbon under said platen, the remainder of the printing mechanism including the ribbon spools, the type, the selecting means, and the actuating means, being disposed back of said paper supporting means and within said machine casing.

2,405,563
CARBURETOR
Daniel J. Enright, Rochester, N. Y.
Application January 5, 1944, Serial No. 517,081
1 Claim. (Cl. 261—49)



A carburetor comprising an air intake tube adapted for attaching to the intake manifold of an engine, a float chamber carried by the tube and having communication therewith, a needle valve slidably mounted transversely of the tube and controlling the feeding of fuel from the float chamber into the tube, a throttle valve in the tube inwardly of the needle valve, an air control valve in the tube outwardly of the needle valve, a link connecting the throttle and air valves for simultaneous opening and closing movement, a pulley secured to the shaft of the throttle valve, an idle pulley journaled on the tube, an endless flexible member trained on said pulleys and including an elongated cam therein having a longitudinal slot receiving the needle valve, vertically spaced members adjustably carried by the needle valve and positioned respectively above and below the cam and in engagement therewith, one of said members being operable to vertically adjust the needle valve, and said cam being operable to open the needle valve, spring means for closing the needle valve, and means for adjusting the idle pulley in accordance with the adjustment of said members to center the flexible member between the flanges of the idle pulley and to take up slack in the flexible member.

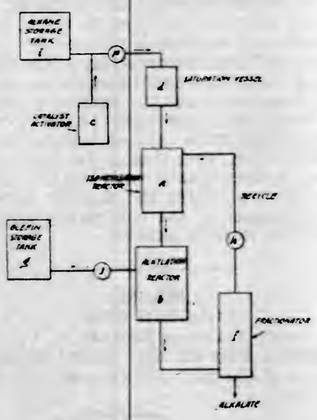
2,405,564
FOLDING BOX
Guy J. Evans, Buffalo, N. Y.
Application July 23, 1943, Serial No. 495,871
1 Claim. (Cl. 229—41)



A folding box comprising a central panel having longitudinal edges on its opposite sides and transverse edges at its opposite tranverse ends, vertical side walls connected with the opposite longitudinal edges of the central panel and each having vertical ends, vertical end walls each of which includes a pair of end wall panels having outer vertical ends connected with corresponding

vertical ends of the side walls to form a corner or the box, and means for connecting the opposing inner ends of the panels of each end wall comprising a vertical slit formed in the inner part of one of said end wall panels, a coupling flap arranged on the inner edge of the other end wall panel and overlapping the outer side of the companion slitted end wall panel, a locking tab arranged on the inner edge of the coupling flap and projecting inwardly through said slit from the outer side of the respective end wall panel to the inner side of the same, and a locking lip connected with the inner end of the locking tab and bent at an angle relative thereto on a line at right angles with the vertical ends at the corners between the side walls and end walls of the box and having an outwardly facing locking edge which crosses the inwardly facing edge of said slit, said locking edge having the form of a hook which overhangs the inner side of the slitted end wall panel and prevents said locking tab from being pulled outwardly through said slit.

2,405,565
SYNTHESIS OF HYDROCARBONS
Eric William Musther Fawcett and Gwilym Islwyn Jenkins, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application March 20, 1944, Serial No. 527,170
In Great Britain April 23, 1943
3 Claims. (Cl. 260—683.4)

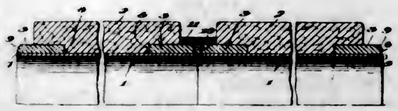


1. A two stage continuous flow process of isomerization and alkylation of normal paraffins for the production of saturated hydrocarbons of higher molecular weight, using a halide catalyst, which comprises the steps of introducing into a hydrocarbon stream having a normal paraffin content a small proportion of halide catalyst not exceeding a concentration sufficient to saturate the feedstock at the isomerisation reaction temperature; passing the catalyst containing stream through an isomerisation reaction zone and contacting said stream therein, under conditions of temperature, pressure and contact time favouring isomerisation of the normal paraffin content of the stream, with a highly porous adsorptive material fully impregnated with the halide catalyst substantially in adsorbed relation only thereto, the catalyst content of said stream being substantially unchanged in transit through said zone; directly commingling the catalyst containing stream of reaction mixture with an olefin stream and passing the combined stream with its olefine-catalyst content through an alkylation reaction zone and contacting the combined stream therein under conditions of temperature, pressure and contact time favouring alkylation of its isoparaffinic content with a highly porous adsorptive material; and, fractionating the exit stream of alkylation reaction mixture to separate the alkylate from the substances adapted for recycling to the isomerisation stage.

2,405,566
METHODS OF PREPARING AN OXYGEN LIBERATING COMPOSITION
David A. Feigley, Jr., Pittsburgh, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
No Drawing. Application April 3, 1942, Serial No. 437,526
16 Claims. (Cl. 252—186)

1. That method of making a composition capable of liberating oxygen upon contact with exhaled air which comprises providing an intimate dry mixture of alkali metal peroxide and a minor proportion of a dry solid acidic substance, and heating said mixture body to initiate reaction between the peroxide and said substance, and thereby producing a hard, bonded and porous mass of said peroxide containing a minor proportion of alkali metal salt of said acidic substance.

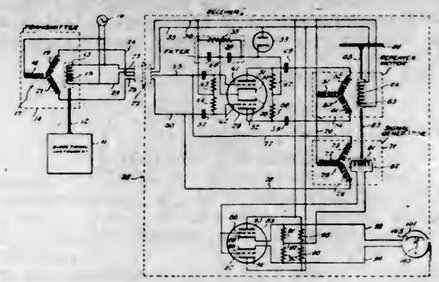
2,405,567
PIPE JOINT
John Ferla, East Orange, N. J., assignor to U. S. Asbestos Cement Pipe Company, Camden, N. J., a corporation of New Jersey
Application January 27, 1943, Serial No. 473,743
4 Claims. (Cl. 285—112)



1. A pipe comprising a surrounding thick wall of asbestos cementitious composition, a thin metallic lining extending throughout the length of said wall and projecting outwardly from opposite ends thereof, cylindrical collars surrounding opposite ends of said lining in interlapping relation with the wall and bonded thereto, said lining having the opposite ends thereof externally beveled, the collars having the outer ends thereof internally beveled, said beveled portions of the lining and collars coacting to form grooves, and welding in said grooves securing the collars on the lining.

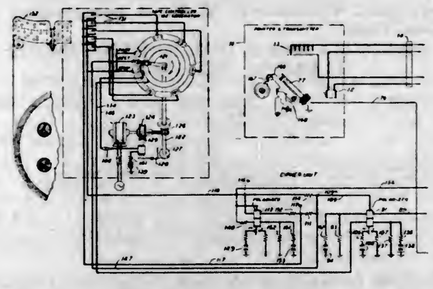
2,405,568
INDICATING APPARATUS
Thomas M. Ferrill, Jr., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc., a corporation of New York
Application April 29, 1944, Serial No. 533,434
17 Claims. (Cl. 177—337)

1. A control system comprising in combination, a transmitter coupled with a control member, a synchronous repeater motor coupled with a controlled member, said transmitter and motor having multiple windings interconnected to form a synchronous transmission system for synchronously positioning said members, and signal generator means mechanically driven by said repeater motor and electrically connected to said



transmission system and responsive to asynchronous characteristics thereof for developing a signal dependent upon positional disagreement of said members.

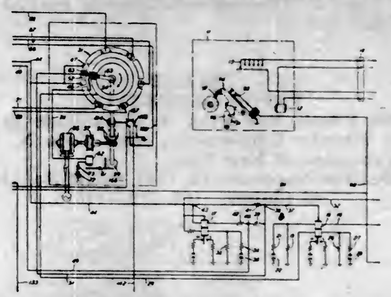
2,405,569
CRYPTOGRAPHIC TELEGRAPH SYSTEM
Karl E. Fitch, Summit, N. J., and George A. Locke, Glenwood Landing, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 18, 1942, Serial No. 435,178
34 Claims. (Cl. 178—22)



25. In a telegraph system, first means for generating signal combinations each comprising a succession of impulses, second means for concurrently generating signal combinations each comprising a succession of impulses, means for interactively combining corresponding impulses of said concurrently generated code combinations, a telegraph line, and means for causing impulses resulting from said interactive combination of impulses to be impressed on said line.

2,405,570
CRYPTOGRAPHIC TELEGRAPH SYSTEM
Joseph W. Dehn, Great Neck, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 12, 1942, Serial No. 461,731
34 Claims. (Cl. 178—22)

1. In a telegraph system, a signal responsive relay, a signal generating relay, a plurality of cipher coding relays for controlling said signal generating relay jointly with said signal responsive relay, selector means individual to and having exclusive control over each of said cipher coding relays for selectively operating said cipher coding relays, and means controlled by certain



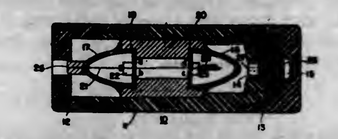
of said cipher coding relays for actuating said selector means.

2,405,571
CRYPTOGRAPHIC TELEGRAPH SYSTEM
Karl E. Fitch, Summit, N. J., and George A. Locke, Glenwood Landing, N. N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 29, 1944, Serial No. 524,452
19 Claims. (Cl. 178—22)



1. In a telegraph system, first means for generating signal combinations each comprising a succession of impulses, second means for concurrently generating signal combinations each comprising a succession of impulses, means for interactively combining corresponding impulses of said concurrently generated code combinations, third means for concurrently generating signal combinations each comprising a succession of impulses, means for interactively combining corresponding impulses produced by said first-mentioned combining means and said third means for generating signal combinations, a telegraph line, and means for causing impulses produced by said second-mentioned combining means to be impressed on said line.

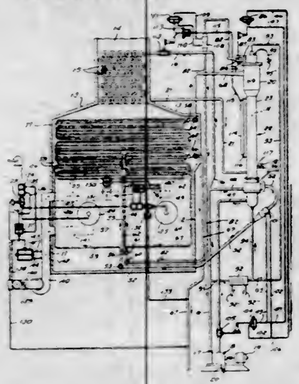
2,405,572
RADIOGRAPHIC EXPOSURE METER
Herbert Friedman, Arlington, Va.
Application August 3, 1943, Serial No. 497,271
4 Claims. (Cl. 250—83.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A Geiger-Mueller tube for comparing hard radiation of unknown intensity with hard radiation of a known intensity comprising, a radiation-permeable tubular member forming a cathode, an anode extending axially therethrough, insulating disks closing the ends of said cathode thereby defining an active tube volume, a radiation permeable envelope for said anode, cathode, and disks, and means for exposing the active

volume defined by the cathode of said tube to a source of constant radiation impinging on said tube from a direction substantially coaxial with the tube axis.

2,405,573
VAPOR GENERATOR
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application November 12, 1941, Serial No. 418,650
43 Claims. (Cl. 122—448)



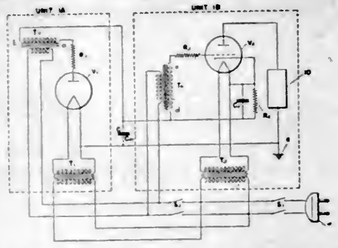
27. A vapor generator comprising tubular means forming a fluid flow path, circulating means for delivering fluid to said path under pressure, means for heating the fluid in said path for conversion of liquid to vapor, a pump for delivering fluid to the circulating means, and driving means for the circulating means actuated by fluid discharged by said pump, the discharge of the driving means being connected to the intake of said pump.

2,405,574
PROCESS FOR THE MANUFACTURE OF AMINO ACIDS
John A. Gamma, Chicago, Ill., assignor to Bryn Mawr Laboratory, Chicago, Ill., a limited partnership of Illinois
Application November 5, 1942, Serial No. 464,567
6 Claims. (Cl. 260—529)

1. In the manufacture of amino acids from protein material, the process, which comprises: subjecting said material to hydrolysis by introducing the vapor of hydrochloric acid into a mass of said material, allowing the acid vapor to condense in contact with said material, filtering the resulting hydrolyte mixture while the hydrolysis is in progress to separate the hydrolysate from the solid residue, evaporating this filtered hydrolysate and recycling the hot acid vapor resulting from said evaporation into the hydrolyte mixture during hydrolysis.

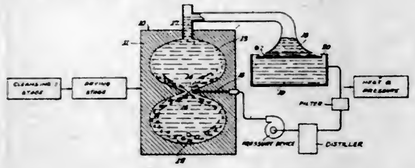
2,405,575
DRIVER FOR ELECTROACOUSTIC TRANSDUCERS
Harvey C. Hayes and Harold L. Saxton, Washington, D. C.
Application November 28, 1941, Serial No. 420,853
8 Claims. (Cl. 177—352)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

7. Driving means for utilizing an alternating current voltage to impress upon an electroacoustic transducer a series of driving pulses shorter than a half-cycle of said voltage and for maintaining said transducer electrically isolated from said driving means during the intervals between said impulses, said means comprising a capacitor, means for charging said capacitor throughout alternate half-cycles of said voltage, means for discharging said capacitor



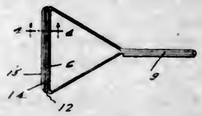
through said transducer during the remaining half-cycles of said voltage, said discharging means including a rectifier, a control circuit for said rectifier, and means actuated by the discharge of said capacitor to apply a blocking voltage to said rectifier and to maintain said discharge means blocked for the duration of one of said intervals.

2,405,576
INTEGRATED MICA AND METHOD OF MAKING THE SAME
Moses D. Heyman, Cedarhurst, N. Y., assignor, by mesne assignments, to Integrated Mica Corporation, Woodmere, N. Y., a corporation of New York
Application June 3, 1943, Serial No. 489,478
11 Claims. (Cl. 125—24)



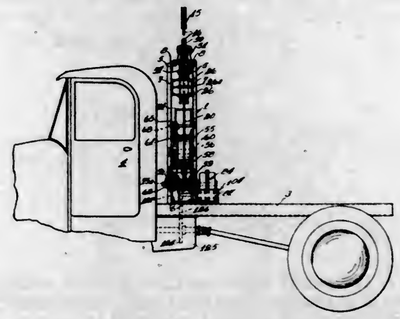
10. The method of forming mica sheets which consists in separating the laminae of a natural mica sheet into fine splittings in a liquid medium whereby the virginity of the surfaces of said splittings is retained to retain the natural cohesive forces of the mica splittings, and depositing said splittings upon a pervious surface while immersed in said liquid medium.

2,405,577
SAFETY RAZOR
Karl Holder, Laurinburg, N. C.
Application February 13, 1945, Serial No. 577,607
1 Claim. (Cl. 30—32)



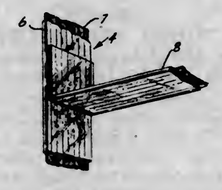
A safety razor comprising a strip of substantially rigid material having a relatively wide section intermediate its ends, said strip being bent along transverse lines adjacent the ends of said wide section to form relatively long and short ends on the strip, said long end being bent over the end of the short end and secured to opposite sides of the short end to form a handle of triple layers of material, said wide section being disposed transversely of the handle, a reinforcing plate secured to the transverse section, a retaining plate, a razor blade, said retaining plate having its ends extending beyond the ends of the razor blade and secured to said reinforcing plate for clamping the razor blade between said plates.

2,405,578
HOISTING APPARATUS
Ernest W. Holmes, Chattanooga, Tenn.; S. Bartow Strang, administrator of said Ernest W. Holmes, deceased, assignor to Ernest Holmes Company, Chattanooga, Tenn., a corporation of Tennessee
Application March 27, 1944, Serial No. 528,314
20 Claims. (Cl. 212—59)



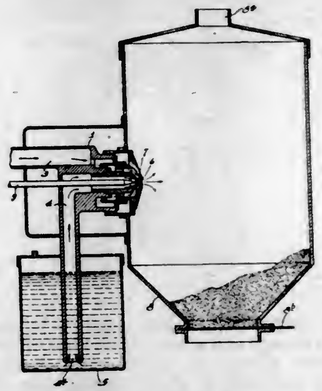
1. Hoisting apparatus comprising a frame, a boom mounted thereon, service and boom operating cables cooperative with the boom, drums for winding the respective cables, shafts mounted on the frame and connected to the respective drums for driving them, a worm wheel fixed to each of said shafts, a casing supported directly by said shafts independently of the frame, worms mounted in said casing and cooperative with the respective worm wheels for operating them, and means on the frame and cooperative with said casing for sustaining the torque reaction of said worm wheels thereon.

2,405,579
VENETIAN BLIND TAPE
Joseph L. Hunter, Riverside, Calif.
Application January 16, 1945, Serial No. 573,011
5 Claims. (Cl. 160—178)



2. A tape for use in Venetian blind ladders comprising a fabric strip completely surrounded by a coating of a plastic material, said plastic material being flexible at atmospheric temperatures and having a smooth, moisture-proof surface.

2,405,580
METHOD FOR PRODUCING ALKALI METAL OXIDES
Carey B. Jackson, Forest Hills, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application December 14, 1940, Serial No. 370,159
10 Claims. (Cl. 23—184)



1. That method of making alkali metal oxide which comprises spraying molten alkali metal into a current of an atmosphere containing oxygen and a gas inert to said metal and thereby oxidizing the metal rapidly, and supplying said atmosphere in an amount such as to provide an excess of oxygen over that theoretically necessary for said oxidation and such, relative to its temperature, as to quench the oxide below its melting point substantially as rapidly as it is formed, and thereby producing the oxide in a fluffy and uniformly oxidized form of low apparent density.

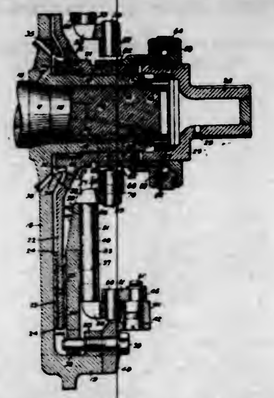
2,405,581
FLOTATION OF SULPHIDE ORES
Cornelius H. Keller, San Francisco, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 17, 1944, Serial No. 559,117
11 Claims. (Cl. 209—166)

1. The improvement in the concentration of ores by flotation which comprises subjecting a sulphide ore in the form of a pulp to a flotation operation in the presence of an effective quantity of a froth flotation agent comprising a reaction product of an aliphatic monohydric alcohol, an alkali thiocyanate and a carbocyclic acid halide.

2,405,582
CLUTCH
Harry A. Knox, Washington, D. C.
Application March 8, 1944, Serial No. 525,511
17 Claims. (Cl. 192—68)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

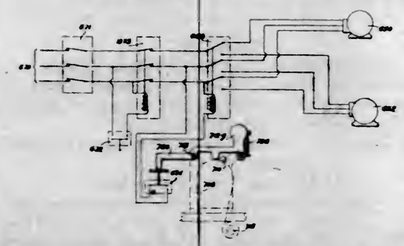
1. In a clutch of the character described, a rotary driving member and a coaxial rotary driven member on a main axis axially movable toward and away from the driving member, an axially movable presser plate fixed angularly with the driving member, a toggle device having one member element based on the presser plate and the other on the driving member on toggle axes substantially radial to the main axis, one member element thereof having an operating rocker

shaft extended inwardly to an arc of rotation on said main axis of less radius than that of the toggle and having a crank at its inner part, a slide axially movable on and angularly fixed



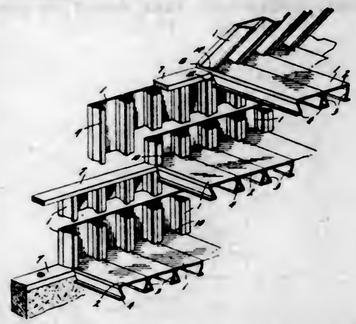
with the driving member, and a linkage connected between the slide and crank at an angle to the latter and at an angle to the path of relative axial movement of its connection with the slide, and means to operate the slide.

2,405,583
KNITTING MACHINE
Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Incorporated, Weehawken, N. J.
Original application October 4, 1939, Serial No. 297,829, now Patent No. 2,363,008, dated November 21, 1944. Divided and this application August 2, 1944, Serial No. 547,765. In Germany March 6, 1939.
9 Claims. (Cl. 66—82)



1. A knitting machine comprising: a knitting mechanism for performing knitting operations, at least one additional mechanism for performing a special operation, a main cam shaft pattern control means driven by said main cam shaft, said main cam shaft being arranged to drive said knitting mechanism and said additional mechanism during predetermined periods in dependence on the control by said pattern control means, a high-speed motor connected to rotate said main cam shaft at a relatively high speed, a low-speed motor connected to rotate said main cam shaft at a relatively low speed, a free wheel coupling arranged in the connections between the low-speed motor and the main cam shaft so that the low-speed motor may rotate the main cam shaft but may not be driven by the main cam shaft when the latter is rotated by the high-speed motor, and switching means controlled by said pattern control means, said switching means being arranged for causing alternate rotations of the main cam shaft by the high-speed motor and by the low-speed motor during predetermined periods in dependence on the control by said pattern control means, and said pattern control means being capable of being set for causing a rotation of the main cam shaft by the high-speed motor substantially during the period of the drive of the knitting mechanism by the main cam shaft, and for causing a rotation of the main cam shaft by the low-speed motor substantially during the period of the drive of the additional mechanism by the main cam shaft.

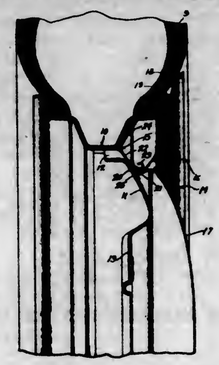
2,405,584
SYSTEM OF BUILDING CONSTRUCTION
Harlow Lewis, Provincetown, Mass.
Application February 13, 1945, Serial No. 577,718
3 Claims. (Cl. 20—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system of building construction which includes a plurality of vertical wall, horizontal floor and pitched roof units of modified U section, each unit having a central web portion and two side members, the portion of each side member directly adjacent the central web portion of the unit being disposed at right angles to the central web portion, the next adjacent portions of the two side members converging toward each other, a flange formed at the termination of each side member and extending outwardly therefrom so that the lateral edge of each flange lies in the same plane as the outer surface of the rectangular portion of each side member, whereby the rectangular portions of the side members and the lateral edges of the flanges of two units will abut each other when the two units are assembled together, the end portions of the horizontal floor units being adapted to enter within the vertical wall units and shaped to conform to the said converging side members thereof to lock the ends of the horizontal floor units within the interiors of the vertical wall units.

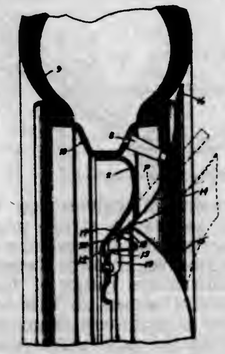
2,405,585
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application July 12, 1943, Serial No. 494,302
9 Claims. (Cl. 301—37)

1. In a wheel structure including a multi-flanged tire rim and a body part, a cover-retaining ring having a central annular portion with shoulder means over which an edge of the cover is adapted to be snapped into retained engagement therewith and also having four radial corner portions formed into inclined radially outwardly extending fingers for resilient snap-on retaining engagement with the rim of the wheel and a circular cover having an edge portion pressed axially behind said shoulder means for concealing one of the parts of the wheel said shoulder means comprising spaced fingers on an



inner margin of said ring each having a shoulder behind which said edge portion of said cover is adapted to be pressed.

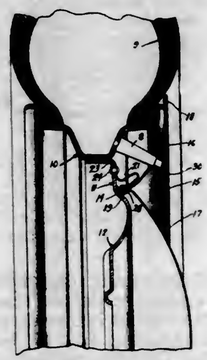
2,405,586
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application October 14, 1943, Serial No. 506,175
7 Claims. (Cl. 301—37)



1. In a wheel structure including tire rim and body members, an annular plastic cover for disposition over the rim and body members, a hub cap disposed over the center of the wheel for clamping the inner edge of the cover to the wheel and having an inclined margin, and means for detachably retaining the hub cap on the wheel, the inner margin of said cover being formed on an incline and spaced from the wheel body to provide a space for the insertion of a pry-off tool therein, said cover being flexible away from the wheel to permit of the insertion of the tool in said space and said inclined margin of the cover being clampingly engaged by the inclined margin of the cap whereby said inclined cap margin backs up said inclined cover margin and whereby the same pry-off force is effective to eject both the cap and the cover from the wheel.

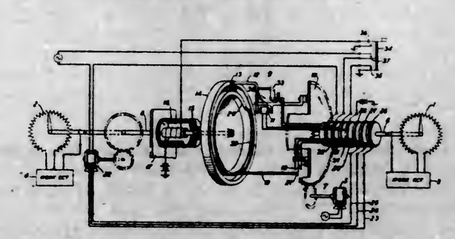
2,405,587
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application April 10, 1944, Serial No. 530,353
4 Claims. (Cl. 301—37)

1. In a wheel structure including a wheel having multi-flange tire rim and body parts, a wheel cover comprising a central hub cap portion for disposition over the body part and having a curled outer edge and an outer annular plastic trim portion for concealing outer side flanges of the rim part and having an inner edge snapped into nested relationship with said curled edge of the hub cap portion so that said portions are held together as a unitary device with said edges arranged to the rear of the cover and forming an annular reinforcing shoulder, and



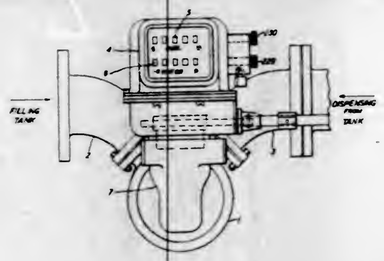
resilient clip means mounted on the wheel body part for retainingly cooperating with said shoulder in holding the cover on the wheel, said clip means comprising a plurality of clips each of which includes a base portion attached to the wheel body part and a flexible gooseneck portion with a turned extremity over and behind which the shoulder of the cover is adapted to be cammed, whereby the clips retainingly wedge the cover against the wheel.

2,405,588
ROTARY DRIVING MECHANISM
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1943, Serial No. 484,096
5 Claims. (Cl. 192—144)



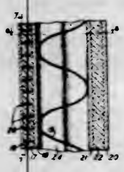
1. In a rotary drive, a rotating drive shaft and a driven member capable of rotating together for an unlimited number of revolutions, a latching device connecting the shaft to the member in predetermined angular relation, magnetic braking means for the driven member, a switch, means operative in one position of the switch at any angular position of the driven member for releasing the latching device and energizing the braking means and restoring means operative in another position of the switch for rotating the member into engagement with the latching device to restore the predetermined angular relation between the shaft and the member.

2,405,589
AUTOMATIC PREDETERMINING DEVICE
Walter H. Marsh, Crafton, and Einar Thoresen, Pittsburgh, Pa., assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 2, 1943, Serial No. 474,440
23 Claims. (Cl. 222—14)



1. In a predetermining dispensing apparatus, a fluid flow responsive device operable by flow of fluid therethrough in either direction, a single valve means controlling flow of fluid in both directions, a valve latching mechanism, a pair of valve latch tripping means driven by said device, and means operatively controlled by said device for selectively rendering one or the other of the said valve latch tripping means inoperative depending on the direction of flow of fluid through the device to allow one tripping means to be operative.

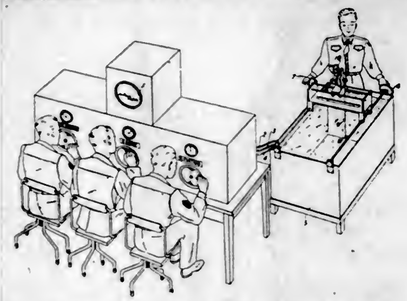
2,405,590
DETONATION SHIELD
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 8, 1940, Serial No. 322,865
16 Claims. (Cl. 109—81)



1. A detonation shield comprising an outer plate, a backing plate, a first intermediate plate, a second intermediate plate, a layer of dissipative granular material between said outer plate and said first intermediate plate, a layer of springs between said two intermediate plates, and a second layer of dissipative granular material between said second intermediate plate and said backing plate.

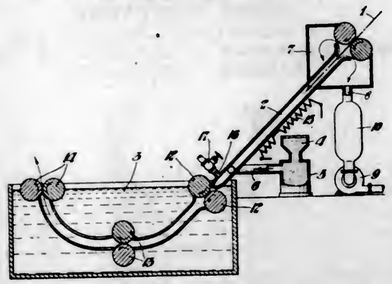
2,405,591
TRAINING DEVICE
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 27, 1943, Serial No. 515,731
8 Claims. (Cl. 35—25)

1. A training device comprising a radio detection and ranging system in which an electromechanical transducer for transmitting and receiving compressional waves in a comparatively dense



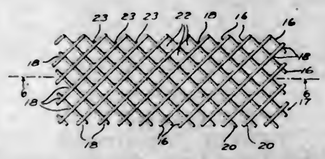
liquid medium is substituted for the radio antenna.

2,405,592
PROCESS OF GALVANIZING
Arthur J. Mauger, Gary, Ind., and Alfred H. Ward, Mount Lebanon, Pa.
Application June 11, 1941, Serial No. 397,646
4 Claims. (Cl. 117—51)



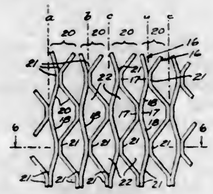
1. The process of galvanizing ferrous metal shapes, such as sheets, strips, and wire, which comprises passing the shapes through an atmosphere of ammonium chloride vapors maintained within a temperature range of from 420° F. to 824° F., admitting excess air into the ammonium chloride vapor atmosphere, immediately passing the shape from the said atmosphere through a galvanizing bath, and controlling the said temperature and admission of air for obviating formation of substantial amounts of ferrous chloride on the shapes by reactions of the ammonium chloride vapors with the ferrous metal of the said shapes.

2,405,593
PACKING FOR VAPOR AND LIQUID CONTACTING APPARATUS
Francis L. Melvill, New York, N. Y.
Application February 4, 1944, Serial No. 521,049
7 Claims. (Cl. 261—94)



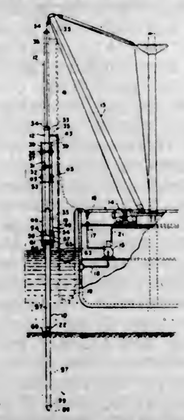
1. In gas and liquid contacting apparatus comprising a column with a liquid inlet and a gas outlet in the upper part thereof and a gas inlet and liquid outlet in the lower part thereof, said column being adapted for countercurrent flow, a packing for the column comprising a plurality of vertically extending sheets disposed in the path of flow of said gas through the column, each sheet comprising straight slender elements which are vertically inclined and in contact, the elements being arranged to form a plurality of mixing zones comprising a series of intersections in spaced horizontal and spaced vertical rows, said rows and said intersections being closely spaced, the distance therebetween being sufficient to form spaces between the intersections large enough to prevent capillary filming of the liquid thereacross.

2,405,594
CONTACTING APPARATUS
Francis L. Melvill, New York, N. Y.
Application April 3, 1944, Serial No. 529,246
12 Claims. (Cl. 261—95)



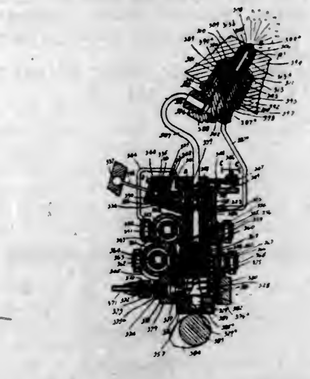
1. A tower packing comprising a series of similar zig-zag slender elements extending generally vertically and regularly arranged in accordance with a predetermined repeat pattern, and a series of core pieces, said elements being joined at their turns in regular groups around said core pieces to form liquid mixing zones at their junctures, element sections diverging generally upwardly and downwardly in opposite directions from each juncture.

2,405,595
MEANS FOR INSTALLING MAGNETIC DETECTING DEVICES AND SUPPORTS THEREFOR
Joseph F. G. Miller, South Arlington, Va., and Richard MacHenry, Washington, D. C.
Application February 3, 1942, Serial No. 429,410
14 Claims. (Cl. 61—63)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device of the character disclosed for arranging a magnetometer support within the bed of a body of water, said support having an aperture therein, the combination of a tubular member sealed at the upper end thereof and having a water inlet connected thereto, means for detachably securing said support in sealed relation to said tubular member, means for forcing water through said inlet and through said aperture within the support thereby to cause the support to be embedded within the bed of said body of water to a predetermined depth with the axis of the support vertical, and means operable at will from the surface of the water for detaching the tubular member from said support without disturbing the axis of the support from the vertical or changing the depth to which the support has been embedded within said bed.

2,405,596
DIFFERENTIAL CONVERTIBLE GASOLINE-DIESEL ENGINE
Lauritz N. Miller, Eugene, Oreg.
Application March 21, 1942, Serial No. 435,729
3 Claims. (Cl. 103—41)

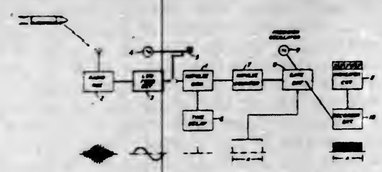


1. In a Diesel engine fuel injection system, the combination with an engine operable cam, a longitudinally movable cylinder means, a cam reciprocable piston means in one end thereof, a check controlled fuel supply to the opposite end thereof, a check controlled fuel discharge from the last mentioned end, a control chamber adjacent the cylinder means and having operative communication with the supply ahead of the check therein, said piston means including a bore extending from the cylinder means exposed end to the piston means surface remote from the last mentioned end but juxtapositioned relative to the cylinder means, said cylinder means including a triangular like opening in its wall communicating with the chamber and an arcuate opening spaced from the triangular opening and in the wall and similarly communicating, and means for rotating one of the means for the purpose described.

2,405,597
FREQUENCY MEASURING SYSTEM
Ohmer R. Miller, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1942, Serial No. 464,664
4 Claims. (Cl. 175—368)

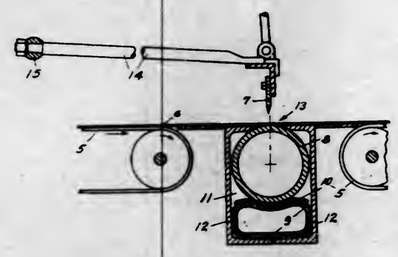
4. The method of measuring the frequency of an alternating current which consists of delaying the admission of said alternating current to means for counting the cycles thereof for a predeter-

mined time, absorbing without counting a predetermined number of said cycles after admission to said counting means, thereafter counting a predetermined number of cycles of said alternating current, marking the beginning and



the ending of the said counting operation and simultaneously counting the number of cycles of alternating current from a known source of great accuracy which occur between the said beginning and ending of said first counting operation.

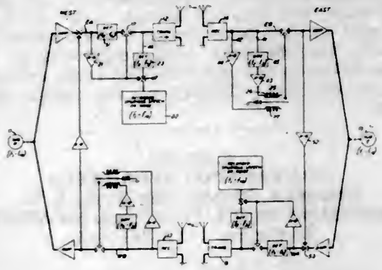
2,405,598
RESILIENTLY SUPPORTED SHEAR BLOCK
William J. Miller, Seattle, Wash., assignor to Elliott Bay Mill Co., Seattle, Wash., a corporation of Washington
Application June 23, 1944, Serial No. 541,752
5 Claims. (Cl. 164—58)



5. In a clipper, frame means having a longitudinal slot in one side thereof; a cylindrical shear block rotatively disposed in said frame means and having a portion of its periphery exposed through said slot; a pliable pneumatic tube in said frame means along the side of said shear block opposite said slot, said tube being inflated with air under pressure to provide a resilient support for said shear block; a plate interposed between said cylindrical shear block and said pneumatic tube; and a knife reciprocable into and out of cutting engagement with the peripheral portion of said cylindrical shear block that is exposed through said slot.

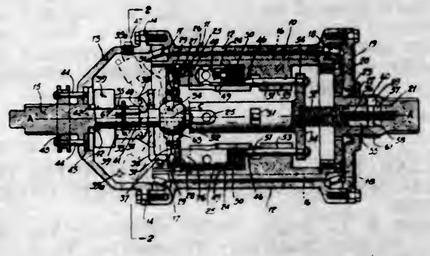
2,405,599
PRIVACY SYSTEM
Doren Mitchell, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1941, Serial No. 412,070
7 Claims. (Cl. 179—1.5)

1. In a speech transmission system, a source of useful speech waves, a source of spurious speech waves, said useful speech waves and said spurious speech waves as produced by their respective sources occupying the same frequency band, a transmission channel, means for applying spurious speech waves from said source to said transmission channel, means for applying useful speech from said source to said transmission channel, means for removing a certain definite portion of the frequency band from the speech energy applied to said channel from one of said sources, means operating in response to application of said useful speech energy to said channel to remove said spurious speech from



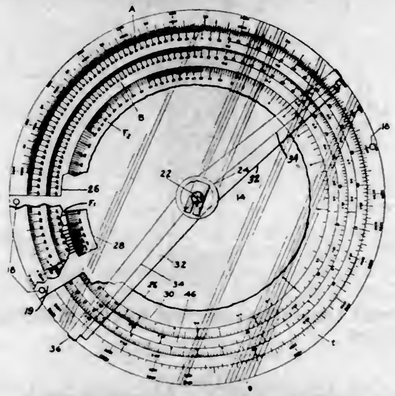
said channel, receiver means and means at a receiving point of the system selectively operated by wave components having frequencies in said certain definite portion of said frequency band for controlling the operativeness of said receiver means.

2,405,600
FLUID TRANSMISSION
Thomas L. Morris, Van Nuys, Calif.
Application August 14, 1942, Serial No. 454,771
13 Claims. (Cl. 192—59)



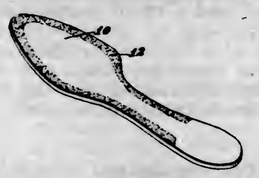
1. In a power transmission of the character described, the combination of: first and second body members rotatable in cooperative relation on a common axis, there being means to connect one of them to a member to be driven and the other to a power source; a plurality of cylinders carried by said first member around said common axis, said cylinders being disposed on axes extending in the general direction of and along said common axis; pistons operable in said cylinders; means for reciprocating said pistons comprising an element capable of moving said pistons in said cylinders through selected distances; adjusting means for said reciprocating means operative to vary the piston-moving action of said reciprocating means when there is relative rotation of said first and second body members; means comprising a shell connected to one of said body members and rotating therewith for holding liquid so that it may flow into and out of said cylinders as said pistons reciprocate therein, said shell enclosing the other parts of the power transmission; and means for controlling the flow of said liquid out of said cylinders whereby a fluid pressure built up in said cylinders will be applied to the inner ends of said pistons.

2,405,601
AZIMUTH SCALE
Ralph E. Mullendore, United States Navy
Application February 23, 1945, Serial No. 579,480
3 Claims. (Cl. 235—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



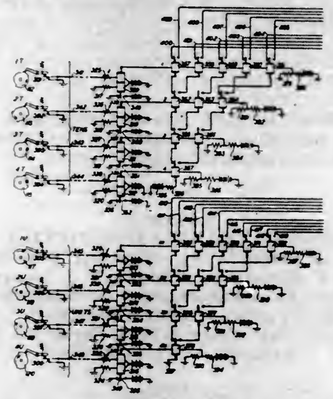
1. An azimuth computer, comprising a plurality of concentrically arranged discs having scales inscribed thereon, one of said scales having inscribed thereon values of time two of said scales having inscribed thereon values which when properly indexed with respect to each other and to the time scale are additive to give the azimuth of any given time on said time scale, and means for indexing said two scales, comprising two pairs of cooperating scales, one pair of scales for each of the aforesaid two scales, said two scales being indexed by rotation of the component parts of each pair of scales relative to each other to set the sum of the latitude and declination opposite the difference of the latitude and declination on each of said pairs of scales.

2,405,602
ADHESIVE ACTIVATION
Frederick V. Nugent, Abington, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application September 23, 1944, Serial No. 555,579
2 Claims. (Cl. 154—40)



1. In the art of adhering fibrous materials together, that improvement which comprises adding a filler material to a synthetic rubber-like adhesive, applying the adhesive to areas of the parts to be joined and permitting the adhesive to harden, providing a solvent activator for said adhesive and adding thereto an agent capable of subsequent reaction with said filler material for producing a color, applying the agent carrying activator to the hardened adhesive on at least one of said areas to render the adhesive tacky and with a resulting reaction between the agent and the filler giving a visual indication of the condition of the adhesive, and thereafter pressing the parts together to effect an adhesive bond.

2,405,603
DATA TRANSMISSION SYSTEM
Raizemond D. Parker, Brooklyn, Wilton T. Rea, Manhasset, and Fred J. Singer, Rockville Centre, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1942, Serial No. 470,774
10 Claims. (Cl. 177—351)

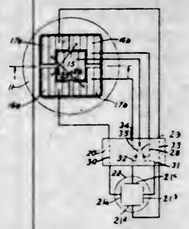


1. In an electrical data transmission system, a transmitting station, a receiving station, a first multichannel transmitting circuit connecting said stations, means at said transmitting station for impressing on each of said channels simultaneously a signal element of a first permutation code combination in a first multielement permutation code to completely define any one of ten digits in a first particular position in a multidigit number, a second multichannel transmitting circuit connecting said stations, means at said transmitting station for impressing on each of said second channels simultaneously a signal element of a second permutation code combination in a second multielement permutation code, independent of said first code, to completely define any one of ten digits in a second particular position in said multidigit number, means in said system for defining consecutive numbers in sequence, means, comprising instrumentalities for inverting the sequence of the code signal combinations defining successive groups of ten digits in said first position of said number, at said transmitting station for changing the condition of not more than one signal element of the total signal elements comprising said two code combinations on transitions between any successive code settings and means at said receiving station for identifying consecutive numbers in response to all of said consecutive settings.

2,405,604
COMPRESSIONAL WAVE TRANSLATING DEVICE
Thomas J. Pope, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 13, 1943, Serial No. 479,084
9 Claims. (Cl. 177—386)

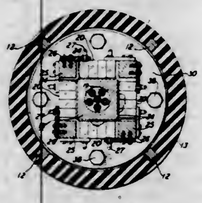
1. A compressional wave translating device comprising a central electromechanical translating element having a substantially non-directional response characteristic, two similar electromechanical translating elements having substantially cosine directivity, each of said two elements including two similar parts and the four parts of said two elements being arranged in alternate

relation and space quadrature about said central element, means for electrically coupling said cen-



tral element to said two elements, and a diaphragm operatively associated with said central and two translating elements.

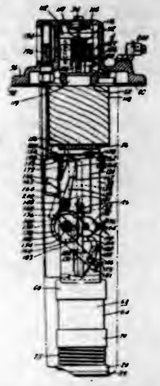
2,405,605
SIGNAL TRANSLATING DEVICE
Walter D. Goodale, Jr., Convent Station, and Frank F. Romanow, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 2, 1943, Serial No. 500,914
5 Claims. (Cl. 177—386)



4. A signal translating device comprising an elongated support of square cross-section, four parallel linear arrays of similar piezoelectric crystals, the crystals of each array being secured to a corresponding face of said support, leading-in conductors for each crystal, four posts mounted opposite the corners of said support and having their outer faces substantially coplanar with the outer faces of the adjacent crystals, and terminal members for said conductors carried by said posts.

2,405,606
CIRCUIT INTERRUPTER
Herbert L. Rawlins, Wilkinsburg, and James M. Wallace, Braddock, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1941, Serial No. 374,685
40 Claims. (Cl. 200—89)

1. In circuit interrupting means, separable contacts, a single means responsive to a predetermined circuit condition controlling separation of said contacts comprising a relatively quick acting control device, means for automatically closing said contacts following a circuit interrupting operation, blocking means automatically effective in response to a circuit interrupting operation for preventing operation of said control device to separate said contacts, and time delay means operative to render said blocking means ineffective to permit said control device to separate said contacts only a predetermined time after a first circuit interrupting operation, whereby upon the occurrence of said predetermined condition said control device will cause a quick separation of said contacts and thereafter said contacts will automatically reclose, and if said predetermined condition still exists said contacts will be separated a second time by said control device only a predetermined time after the first circuit interrupting operation.



2,405,607
COMPOUNDED LUBRICANT
Dilworth T. Rogers, Plainfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 31, 1944, Serial No. 528,952
9 Claims. (Cl. 252—46.7)

1. A lubricant comprising a mineral lubricating oil base stock and a small proportion, sufficient to stabilize said oil against deterioration, of a reaction product of a combination of the elements sulfur and phosphorus with a product obtained by reacting a phenol with a sulfur chloride derivative of an olefin.

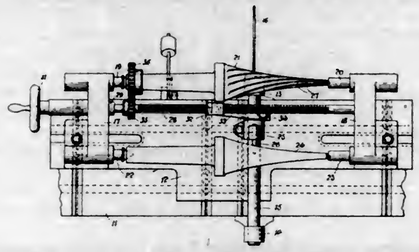
2,405,608
COMPOUNDED LUBRICANT
Dilworth T. Rogers, Plainfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 31, 1944, Serial No. 528,953
12 Claims. (Cl. 252—32.7)

1. A lubricant comprising a mineral lubricating oil base stock and a small proportion, sufficient to stabilize the said oil against deterioration, of a metal salt of a reaction product of a combination of the elements sulfur and phosphorus with a product obtained by reacting phenol with sulfur chloride derivative of an olefin.

2,405,609
FORM TOOL CHIP BREAKER GENERATING FIXTURE
Walter F. Ross, Detroit, Mich., assignor to Motor Tool Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application August 17, 1944, Serial No. 549,891
2 Claims. (Cl. 51—100)

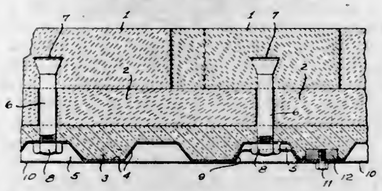
1. In a device of the class described, in combination, a fixture table having longitudinally and transversely guided support a pair of work-holding centers mounted on said table, a second pair of centers also mounted on said table in parallel with said work-holding centers, a profiled stop carried by said second pair of centers, a fixed follower finger, means biasing said table to urge said stop against said finger, a feed screw

carried by said table, a feed nut on said screw linked to said follower finger for moving said table longitudinally and to cause said stop to also move said table transversely by virtue of the riding of said stop over said finger, means trans-



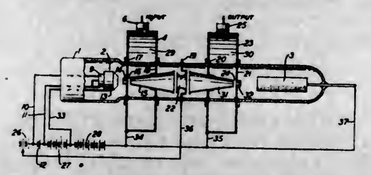
mitting rotary motion of said feed screw to the work during such combined movements, and a grinding wheel positioned to cutting interruptions in the teeth of said work during the resulting lineal and rotary movements thereof.

2,405,610
FURNACE FLOOR STRUCTURE
William Sampson, Aldwych, London, England, assignor, by mesne assignments, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application February 17, 1944, Serial No. 522,718
In Great Britain March 18, 1943
8 Claims. (Cl. 72—68)



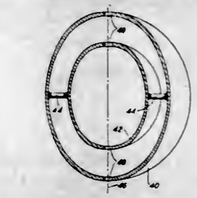
1. A furnace lining structure comprising metal plating corrugated to produce troughs between flat regions, lining bricks, and anchoring bolts adapted to attach the bricks to the metal plating, said bolts passing through the bases of inwardly projecting troughs of the plating and fitted with nuts lying within the troughs on the outside of the plating.

2,405,611
ELECTRON BEAM AMPLIFIER
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 26, 1942, Serial No. 448,591
9 Claims. (Cl. 179—171)



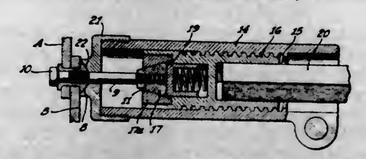
1. An amplifier comprising means for producing an electron stream, input and output circuits comprising hollow resonators having apertures to permit passage of at least portions of the electron stream through a portion of the electric field associated with the excitation energy of each of the resonators, means for exciting the input circuit whereby the interaction between the electron stream and the electric field of the input circuit resonator produces variations in the velocities of the electrons in accordance with the excitation energy, means at a point in the path of the electron stream following the place of its interaction with the field of the input circuit resonator (but in advance of the place of its interaction with the field of the output resonator) for producing a retarding field to turn back at least some of the electrons which have had their velocities reduced by the said interaction and allow other higher velocity electrons to pass on through the said portion of the electric field of the output circuit resonator and transfer energy thereto in accordance with the excitation of the input circuit resonator.

2,405,612
ULTRA HIGH FREQUENCY RESONANT-CAVITIES
Sergei A. Schelkunoff, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 5, 1941, Serial No. 381,799
5 Claims. (Cl. 178—44)



1. In an ultra-high frequency system, a resonant device comprising solely two parallel spheroidal conducting members, and electroconductively insulating members, having high electrical impedance to the frequencies of the system, said last-stated members serving to space said conducting members with respect to each other, said two conducting members having a common point about which they are concentric, said conducting members being of different dimensions, the larger enclosing the smaller, said conducting members being provided with orifices, said orifices being on a common axis whereby the cavity between said members and the cavity within the inner member may both be excited to resonance by the projection of an electron beam along the said axis by means external to the outer member.

2,405,613
APPARATUS FOR SETTING BLIND RIVETS
Ernest H. Shaff, Spring Lake, Mich., assignor to Cherry Rivet Company, Los Angeles, Calif., a corporation of California
Original application November 5, 1942, Serial No. 464,677. Divided and this application April 30, 1945, Serial No. 591,039
3 Claims. (Cl. 218—19)



1. In an apparatus for setting blind rivets of the type including a rivet body having a shank

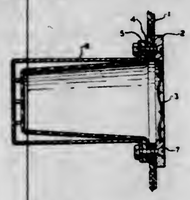
adapted to be extended through an aperture into which the rivet is to be set, and a stem having an upsetting head at one of its ends and radially extending helical threads on the stem to threadedly engage the interior of the shank, which comprises a tool body member, an actuator member movable within said tool body toward and away from one end of said tool body, means on the end of said tool body for engaging the rivet head when the stem is inserted into said tool body, means on said actuator for engaging the inserted end of the rivet stem, and means for moving the actuator relative to said body with a combined axial and rotary motion.

2,405,614

MOISTUREPROOFING DEVICE

Morris A. Shriro, Elberon, N. J., assignor to the United States of America, as represented by the Secretary of War

Application January 20, 1944, Serial No. 519,013
1 Claim. (Cl. 220—85)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A pressure equalizing device comprising an enclosed compartment, an aperture through a wall of said compartment, a substantially flat annular frame disposed about said aperture and outside said wall, a perforated grill sustained by said frame and extending across said aperture, the frame and grill being substantially flush with the exterior of said wall, a flexible sack, an opening in said sack, said sack being disposed within said compartment and said opening in said sack being in register with said aperture and the mouth of said opening abutting the inner surface of said wall, an annular washer encircling said sack, the mouth of the sack being between the wall and said washer, a perforated guard surrounding said sack, an opening in said guard, said opening in said guard abutting said washer, fastenings extending through and securing the frame, the sack, the washer and the guard to the wall of the compartment and pressing the mouth of the sack between the wall and the washer to form a tight seal between the mouth of the sack and the wall.

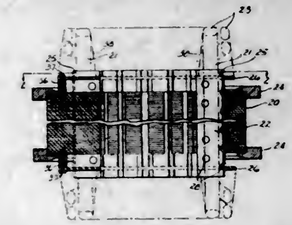
2,405,615

SUPPORT FOR WINDINGS IN MAGNETIZING CORES

Frank J. Sigmund and William S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation, a corporation of Ohio

Application July 26, 1943, Serial No. 496,136
12 Claims. (Cl. 171—206)

1. In the construction of a magnetizable core with a plurality of winding slots and windings in said slots, the improvement of spacer means for spacing the windings in the slots at a distance from the inside surface of the slots comprising, in combination, a sleeve for each of the slots to substantially envelope the winding, and means at the end of and connected to the core for engaging the sleeves and holding the sleeves in the slots at a distance from the inside surface of the slots said sleeves thereby providing an unobstructed passageway between the sleeves and the inside surface of the slots throughout the length thereof, and said means for engaging the sleeves



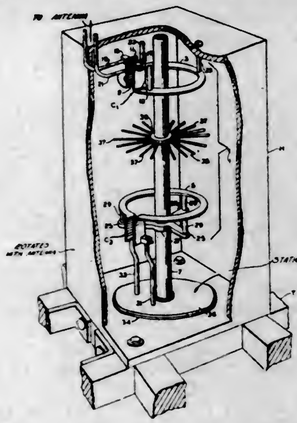
providing communication from the said passageway in the slots to the core ends, whereby cooling media may be conducted through said passageway from the core ends to cool the magnetizable core.

2,405,616

ANTENNA COUPLING

Walter Silver, Belmar, N. J.

Application July 7, 1943, Serial No. 493,716
7 Claims. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. A rotatable coupling unit adapted to couple a continuously rotatable antenna to a stationary transmission line, comprising a pair of coaxially-mounted, relatively-rotatable supports, one support being fixed and the other support being adapted to be continuously rotatable with said antenna, a pair of single-turn loops located in parallel planes, one of said loops being mounted on said fixed support and adapted to be connected to said transmission line, and the other of said loops being mounted on said rotatable support and adapted to be connected to said antenna.

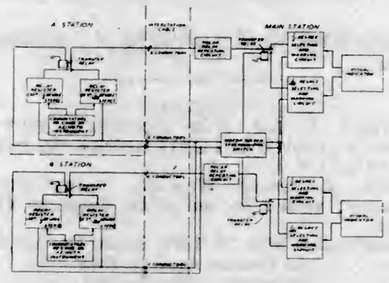
2,405,617

DATA TRANSMISSION SYSTEM

Fred J. Singer, Rockville Centre, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 15, 1942, Serial No. 469,045
7 Claims. (Cl. 177—351)

7. In a data transmission system, a first and a second observing station, a measuring instrument at each of said stations, means connected to each of said instruments for making measurements in an ordered numerical sequence, means connected to each of said instruments for translating each measurement by said instruments simultaneously into a first and a second six element permutation code signal combination, each combination corresponding to two consecutive digits of a four digit number defining each of said measurements, a receiving station, six individual conducting channels of a single transmission circuit interconnecting each of said observing stations individually with said receiving station, a synchronizing device at said receiving station, means connected to said synchronizing device for controlling each of said circuits simultaneously so as to impress on said channels simultaneously at a first time at said observing stations all six of the ele-



ments of a signal combination corresponding to the two right-hand digits of said four digit number defining a measurement at each observing station, means connected to said synchronizing device for controlling said circuits simultaneously so as to impress on said channels simultaneously at a second time at said observing stations all six of the elements of a signal combination corresponding to the two left-hand digits of said four digit number defining said measurement at each observing station, and means for impressing said combinations corresponding to said left-hand digits on said channels once for each time said combinations corresponding to said right-hand digits are impressed on said channels to minimize the effect of errors due to hits during transmission.

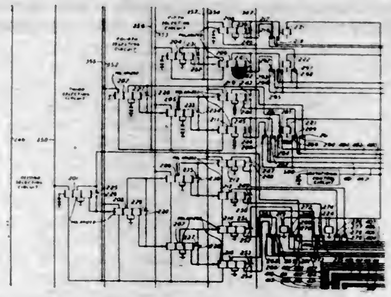
2,405,618

PERMUTATION CODE DATA TRANSMISSION SYSTEM

Edward M. Smith, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 12, 1943, Serial No. 486,652
5 Claims. (Cl. 177—353)

4. In a permutation code signaling system, a first, second and third transmission channel, means for impressing either of two electrical conditions on each of said channels to form permutation code signals, a first selecting device comprising a switch selectively operable to either of two positions connected to said first channel only, a second selecting device independent of said first device comprising two switches each selectively operable to either of two positions connected individually to said first and said second channel, a third selecting device independent of each of said other devices comprising three switches each selectively operable to either of two positions connected individually to said first, second and third channels, and means for effecting three separate independent ultimate selections simultaneously through paths through said



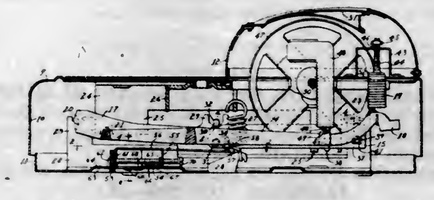
switches in each device in response to a single multielement permutation code signal combination impressed on said channels.

2,405,619

BATHROOM SCALE WEIGHT ADJUSTMENT

John C. Sutton, Rockford, Ill., assignor to The Brearley Company, Rockford, Ill., a corporation of Illinois

Application January 24, 1944, Serial No. 519,431
10 Claims. (Cl. 265—68)



1. A weighing scale, comprising a base, a platform, a lever mechanism for movably supporting the platform on the base, weighing spring means restraining movement of the lever mechanism, weight indicating means operable upon movement of the lever mechanism, an adjustment for said weighing spring means, a leaf spring arranged to be deflected relative to the base by said lever mechanism in a weighing operation, a fixed support for one end of said spring on said base, a slidable fulcrum for said spring adjustable lengthwise thereof toward and away from said fixed support, a pointer on said fulcrum movable in the sliding adjustment thereof relative to a suitably graduated scale on the base, a screw extending lengthwise relative to said spring and threaded in said fulcrum for its adjustment and supported on said base without freedom for endwise movement, and manually adjustable means for turning said screw.

2,405,620

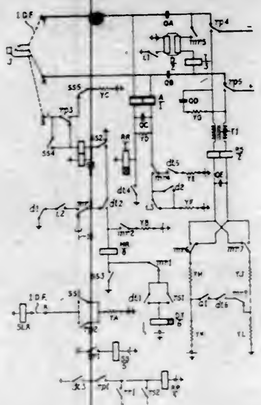
TELEPHONE SYSTEM

Reginald Taylor and George Thomas Baker, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application August 19, 1943, Serial No. 499,194
In Great Britain September 17, 1942
18 Claims. (Cl. 179—27)

1. In a telephone system, two exchanges interconnected by a trunk line, an operator's position

in one of said exchanges, means operated under the control of said position to transmit call directing impulses over said trunk line to the other of said exchanges, circuits in said other exchange normally conditioned to receive said impulses and



to control the extension of a connection in accordance therewith, said connection including a normally disabled speech circuit, and means for enabling said speech circuit responsive to an operation performed at said position after the transmission of said call directing impulses.

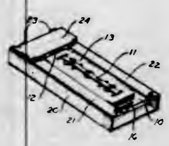
2,405,621

MAGAZINE FOR SAFETY RAZOR BLADES

Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application December 23, 1942, Serial No. 469,896

13 Claims. (Cl. 206—16)



1. A magazine for safety razor blades including in its structure a casing having a blade-exit opening at one end, means movably retaining a stack of blades in the casing, a blade feeder movable in the casing to engage and advance by endwise movement the uppermost blade of the stack, a stack of slotted shims interleaved between individual blades at one end only of the stack, and means in said casing for holding said shims positively against movement in the direction in which the blades are ejected but permitting movement thereof in the opposite direction.

2,405,622

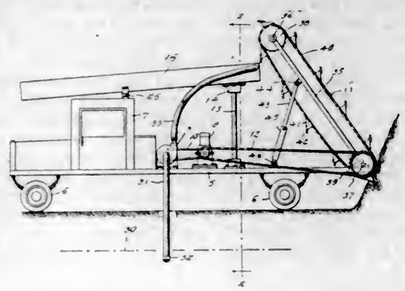
PLACER MINING MACHINE

William Thomas, San Francisco, Calif.

Application September 29, 1944, Serial No. 556,419

3 Claims. (Cl. 262—2)

1. A mining machine of the character described comprising a platform, a swingable sluice box supported on the platform and a digger on the platform for digging and elevating earth to the sluice box, said platform being provided with wheels supporting the same, a truck cab mounted on the platform and a support on the cab for



the sluice box when positioned in a forward direction.

2,405,623

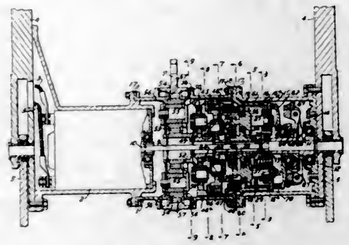
DRIVING JOINT FOR CONTROL DEVICES FOR RETRACTABLE MEMBERS ON BOARD AIRCRAFT

Charles Raymond Waseige, Saint Etienne, France; vested in the Alien Property Custodian

Application May 21, 1942, Serial No. 443,964

In France April 8, 1941

8 Claims. (Cl. 74—305)



1. A driving joint for operating retractable projecting members on board aircrafts, comprising a unit including a motor, an elongated shaft means for universally connecting one end of said shaft to said motor, a gear fixed upon the other end of said shaft, a speed reducer driven by said gear, said speed reducer occupying a position between said motor and said gear, housing means fast with said motor, and a fixed cantilevered housing disposed within and carried by said housing means, said cantilevered housing having the outer periphery thereof spaced from the inner periphery of the first-named housing, said cantilevered housing also supporting at least a portion of said speed reducer.

2,405,624

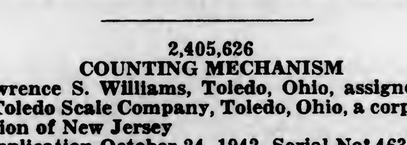
APPARATUS FOR CLEANING AIR

John E. Watson and Louis C. Whiton, Westport, Conn., and Charles B. McBride, Port Chester, N. Y., assignors to Prat-Daniel Corporation, Port Chester, N. Y., a corporation of New York

Application April 9, 1943, Serial No. 482,470

5 Claims. (Cl. 183—34)

1. Apparatus for separating suspended particles from air which comprises a centrifugal separator, a Venturi passage comprising a throat and an expanding passage leading from said throat to said centrifugal separator and draw off passages from



said expanding passage transverse to the direction of flow therethrough.

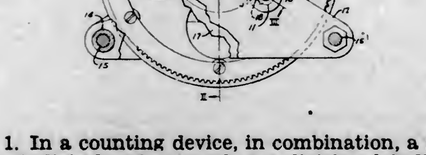
2,405,625

DUST SEPARATOR

Louis C. Whiton and John E. Watson, Westport, Conn., and Charles B. McBride, Port Chester, N. Y.

Application October 28, 1944, Serial No. 560,854

11 Claims. (Cl. 183—37)



1. Dust separating apparatus which comprises an elongated chamber having an inlet at its front end; an outlet at the opposite end; a disc filter in front of said outlet; a motor driven fan in front of said disc filter; a bag filter secured to the inner surface of said chamber and extending rearwardly in front of said fan; a shroud within said bag filter secured at its front open end to said chamber; a centrifugal separator within said shroud, said separator having an outlet tube opening through the rear end of said shroud and extending forwardly into said separator to form an annular passage therein and having tangential inlets to said annular passage and a dust receiving receptacle at the front end of said separator.

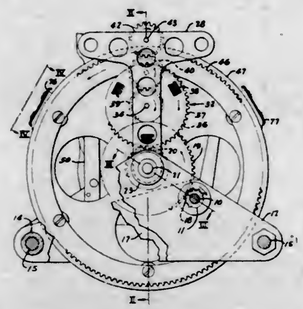
2,405,626

COUNTING MECHANISM

Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application October 24, 1942, Serial No. 463,264

10 Claims. (Cl. 235—136)



1. In a counting device, in combination, a major-indicia-bearing member, a divisional-indicia-bearing member bearing at least one series of

divisional indicia, a gear train operatively connecting said members, said gear train including a drive pinion meshed with a driven gear, a rockable frame for mounting said pinion for movement around said driven gear while in mesh therewith and a cam driven synchronously with said divisional-indicia-bearing member, resilient means for driving said rockable frame from said cam and limiting the force transmitted from said cam to said frame, said cam having a long sloping surface and a short oppositely directed sloping surface corresponding to each of the series of divisional indicia borne by said divisional-indicia-bearing member, said cam causing said frame to rock and slowly move said pinion about said driven gear in a direction opposite to the direction of rotation of said driven gear when said resilient driving means for said frame engages said long sloping surface on said cam and to sharply move said pinion and rotate said driven gear when said frame engages said short oppositely directed surface on said cam.

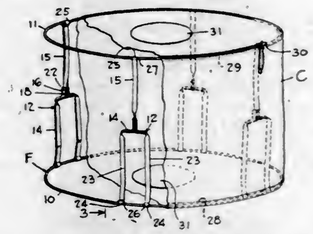
2,405,627

COLLAPSIBLE RECEPTACLE

Louise H. Williams, Los Angeles, Calif., assignor of one-half to Peter Bozeman, West Los Angeles, Calif.

Application November 20, 1944, Serial No. 564,217

4 Claims. (Cl. 150—49)



1. A collapsible receptacle comprising: a foldable frame including two continuous boundary members and connecting members at intervals between the boundary members; each of said connecting members being composed of two sections of flat strip metal, with one section bent upon itself medially of its ends to provide closely spaced bearing plates between which the inner end of the other section is received; a pin passing through said bearing plates and inner end of said other section to pivotally connect the sections; the outer end of said other section being curled to define a sleeve receiving one of said boundary members to pivotally connect said other section thereto; said one of the sections projecting laterally in opposed directions from said bearing plates, and then in parallelism to provide two relatively widely spaced bracing portions whose ends are curled to receive the other boundary member so as to pivotally connect said portions thereto; means for releasably retaining the sections in extended position; and a flexible covering for the frame.

2,405,628

CONTROL DEVICE

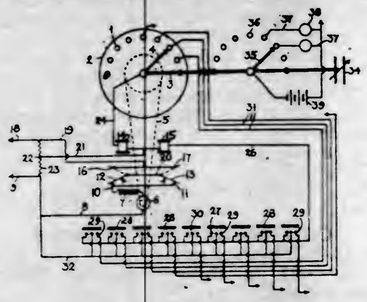
Michel N. Yardeny, New York, N. Y.

Application August 23, 1943, Serial No. 499,635

5 Claims. (Cl. 172—239)

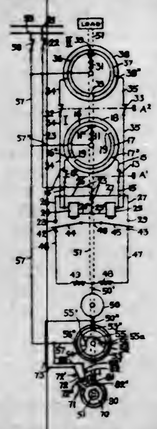
1. An electrical control apparatus comprising a plurality of contact elements mounted in spaced relation to each other; a contact mem-

ber arranged for a relatively movable engagement with the contact elements; a drive means including a motor to effect relative movement between the contact elements and the contact member; a circuit means for causing rotation of the motor always in a predetermined direction; a plurality of switch elements, each of said switch elements comprising three contact points, one of said contact points being adapted to be connected with a source of current, the second contact point being connected with said circuit means, and the third contact point being connected in a circuit with a corresponding contact



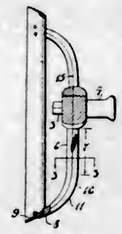
element; means for interconnecting the three contact points of a selected switch element thereby connecting the circuit means with the source of current for causing rotation of the motor; and means for causing the motor to be stopped in response to the contact member being in engagement with the contact element connected to the third contact point of the selected switch element, the first contact point of each switch element being constructed and arranged to be disconnected not later than the other two contact points when the selected switch element is released.

2,405,629
REMOTE CONTROL APPARATUS WITH UNIDIRECTIONAL STOPPING
Michel N. Yardeny, New York, N. Y.
Application February 9, 1945, Serial No. 576,920
7 Claims. (Cl. 172—239)



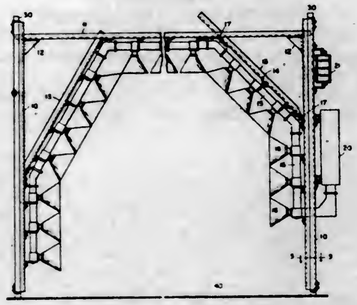
7. In control apparatus for moving a load in a desired direction to a desired end position, in combination, drive means including a motor for moving the load, means including a selectively adjusted member for controlling the said drive means to rotate the said motor in a direction to cause an operational movement of the load in a predetermined desired direction and to stop the said drive means with the load in the said desired end position, means operative irrespective of the direction of said operational load movement to cause said stopping to occur after a short terminal movement of the motor in one predetermined direction, said latter means comprising means to change the speed of motor rotation, and a means actuated by changes in direction of motor rotation for controlling the said speed changing means.

2,405,630
CULTIVATOR WHEEL
Andrew B. Allen, Ochre River, Manitoba, Canada
Application April 20, 1944, Serial No. 531,894
3 Claims. (Cl. 97—217)



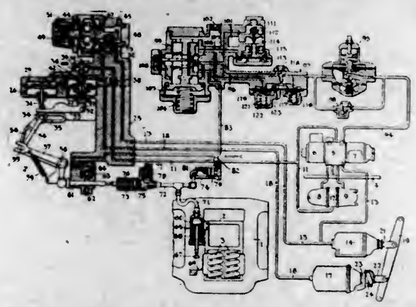
1. A cultivator wheel for attachment to a shaft positioned diagonally to the direction of travel, said wheel consisting of a hub, spokes radiating therefrom normal to the rotary axis of said wheel for a substantial portion of their total length and then curving, a rim connected to the outer ends of said spokes, the wheel as-a-whole thus having the characteristic of concavity, said rim having an edge-sharpened outer perimeter.

2,405,631
DRYING OVEN
Charles W. Attwood, Wayne, Mich.
Application August 27, 1943, Serial No. 500,228
5 Claims. (Cl. 219—34)



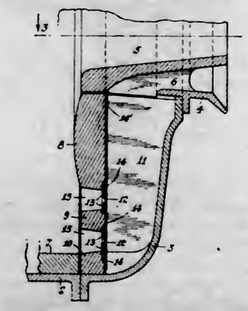
5. In a drying oven using infra-red lamps for drying the coating of articles, means for arranging a plurality of infra-red lamps in a line approximating the contour of the article being dried, said means consisting of a supporting frame of vertical side members and a cross member, a plurality of short members carried thereby, one of which is fixed in an inclined position to the inner face of a side member and another of which is fixed to the first short member and to the side of the cross member.

2,405,632
AIR BRAKE
Wayne A. Baldwin, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application March 23, 1945, Serial No. 584,411
10 Claims. (Cl. 303—22)



1. In a variable-load brake for a vehicle, the combination of an air-brake unit; spring borne vehicle load-sustaining means; a variable ratio relay controlling the intensity of brake applications made by said air-brake unit and including a member shiftable through an adjusting range to vary the relay ratio; means serving to bias said member toward one extreme of its motion; an expansible chamber hydraulic motor capable of moving said member through said range in opposition to said bias; a pneumatic expansible chamber motor which when energized moves through a definite range; and a hydraulic motion transmitting connection from the pneumatic to the hydraulic motor, including an expansible chamber unit whose effective volume is controlled by depression of said load-sustaining means, whereby the response of the hydraulic motor to motion of the pneumatic motor is modified according to load.

2,405,633
GRINDING MILL
Lyle M. Barker and Evan G. Lewis, Ajo, Ariz., assignors to Phelps Dodge Corporation, New York, N. Y., a corporation of New York
Application January 13, 1943, Serial No. 472,200
8 Claims. (Cl. 241—70)



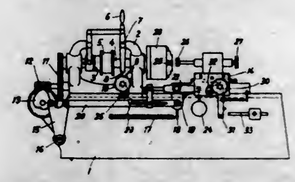
2. Grinding mill discharge means comprising members defining a channel in communication with the grinding chamber of the mill, resilient elements in spaced relationship defining a slot at the base of said channel, and backing means for said resilient elements, said backing means extending over portions of said elements but terminating short of the slot forming edges of said elements.

2,405,634
LEVEL INDICATOR FOR CONTOUR PLOWING
Carl Henry Batterman, Gering, Nebr.
Application February 27, 1945, Serial No. 579,933
3 Claims. (Cl. 33—209)



3. A level indicator for tractors comprising: a horizontal pivot member on said tractor with its axis at right angles to the axis of said tractor; a truss frame hingedly mounted on said pivot member and extending forwardly of said tractor; a stub shaft at the forward extremity of said truss frame in axial alignment with said tractor; a hinge member rotatably mounted on said stub shaft; a truck frame hingedly mounted on said hinge member so that it will be free to tilt in every direction; caster wheels supporting said truck frame; and a liquid-containing U-tube carried by said truss frame and indicating the level thereof, said truck frame being triangular, said wheels being positioned at each corner thereof, with one of said wheels in alignment with the axis of said truss frame.

2,405,635
DEVICE FOR RETARDING THE DISENGAGEMENT OF AUTOMATIC MACHINES
André Bechler, Moutier, Switzerland
Application April 16, 1945, Serial No. 588,628
In Switzerland April 24, 1944
5 Claims. (Cl. 51—50)

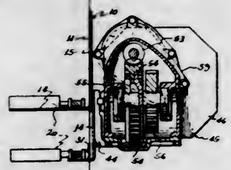


1. In an automatic machine, a tool carrier arranged to carry out longitudinal movements and a transverse stroke, an adjustable stop destined to limit said transverse stroke, and a device for retarding the disengagement of the automatic machine comprising, a mechanism for the disengagement of the machine, arranged to become only active after a certain number of supplemental longitudinal movements at the end of the transverse stroke of said carrier, a ratchet-wheel operable only after stopping of said carrier, and a driver fixed to said ratchet-wheel and destined to act upon said mechanism, the initial position of said driver being adjustable in order to determine the number of supplemental longitudinal movements of said carrier.

2,405,636
COAL MINE HAULAGE VEHICLE
William R. Beck, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application May 17, 1944, Serial No. 535,903. Divided and this application February 17, 1945, Serial No. 578,494
2 Claims. (Cl. 180—54)

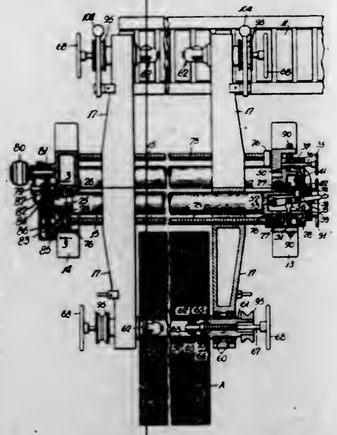
1. In a vehicle for transporting loose material, a main frame including a pair of laterally spaced

vertical walls forming the principal longitudinal supporting members of said main frame and also defining the side walls of a material-carrying compartment, a pair of driving wheels at opposite sides of said vehicle, independent drive means for each wheel including a gear housing having a motor secured to one end thereof and gear reduction mechanism journaled in said gear housing and operatively connecting said motor with



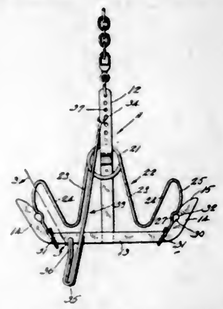
said wheel, said gear housing having an inner end wall adapted to extend along and be secured to said side wall and having a plate mounted on its outer face to form a closure member therefor, and said gear reduction mechanism including a live axle for said wheel journaled at its inner end in said inner wall of said housing and journaled inwardly of said wheel on said closure plate, permitting removal of said axle and wheel by removal of said closure plate.

2,405,637
MILL ROLL STAND
Herbert C. Behrens, Haddon Heights, N. J., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application June 7, 1943, Serial No. 490,001
10 Claims. (Cl. 242—58)



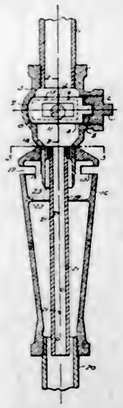
1. A roll stand having a shaft, a pair of arms keyed thereto for rotatably supporting a roll of sheet material therebetween, a drive member, a low speed transmission for connecting said drive member to said shaft for rotating the latter and lift the roll, a high speed transmission for connecting said drive member and said shaft for rotating the latter and lower said roll, means for moving said arms in a direction parallel to the axis of said shaft, means for moving one end of said shaft laterally in respect to the other end to tilt the axis of said roll, and means controlled by the tension of the sheet withdrawn from said roll for varying the resistance to the rotation of said roll.

2,405,638
POULTRY SHACKLE
Frank J. Bilek, Chicago, Ill., assignor to The Globe Company, Chicago, Ill., a corporation of Illinois
Application September 25, 1944, Serial No. 555,668
11 Claims. (Cl. 17—44.1)



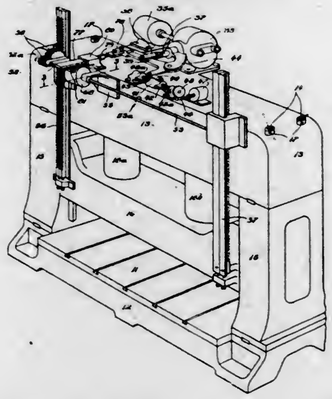
1. A shackle adapted to grip and support a bird for processing in a killing and dressing plant comprising in combination an inverted T-shaped frame including a shank and a head extending transversely thereto, said head terminating at both ends in upwardly disposed projections, a spring member supported on said shank and having two oppositely disposed downwardly extending fingers adapted to form with said projections a pair of means for engaging the legs of the bird.

2,405,639
VACUUM BREAKER
Edward W. N. Boosey, Detroit, Mich.
Application February 19, 1944, Serial No. 523,110
3 Claims. (Cl. 137—69)



1. A vacuum breaker positionable between spaced parts of a water supply conduit having a terminal portion discharging to a container below the liquid level therein, comprising a chambered body member having apertures adjacent its upper end providing for flow of air thereinto and supported in spaced relation on the conduit, said supply conduit terminating in said body member below the apertures therein, an open ended tube supported within said terminal portion of the conduit in peripherally spaced relation therewith and providing for flow of air through the apertures and thence to between the terminal portion of the conduit and the tube, to the supply conduit under influence of a reduced pressure condition therein below atmospheric pressure, said tube having a series of apertures in its wall in spaced rélation longitudinally thereof providing for increase of flow of air into the tube as the water level decreases in the body member.

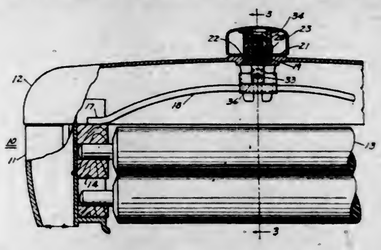
2,405,640
APPARATUS FOR CONTROLLING THE SLIDE MOVEMENT IN LONG-BED HYDRAULIC PRESSES
Earl Cannon, Rockville Centre, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application May 15, 1943, Serial No. 487,106
25 Claims. (Cl. 100—71)



1. Apparatus for controlling the slide movement in a long-bed hydraulic press having slide-actuating rams and related ram advance chambers disposed toward opposite sides of the press slide and means for pumping liquid to said chambers, the said apparatus comprising adjustable compensating means for effecting compensating variations in the volumes of liquid pumped into said chambers, actuating means for varying the adjustment of said compensating means, and control means having two coacting, separately movable portions for controlling said actuating means; one of said movable portions being adapted to move in response to variations in the attitude of the press slide to initiate operation of said actuating means, and the other of said movable portions being adapted to move in response to variations in the adjustment of said compensating means to limit the operation of said actuating means.

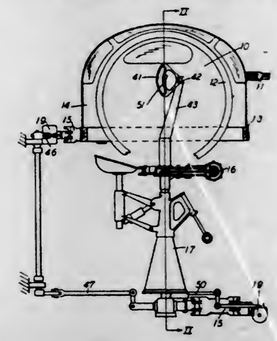
2,405,641
ROLL PRESSURE ADJUSTER FOR WRINGERS
Fred A. Conterman, Jamestown, N. Y., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y., a corporation of New York
Application July 31, 1943, Serial No. 496,900
3 Claims. (Cl. 68—262)

1. In a wringer structure having a pair of adjustable rolls and a spring operable to exert a yielding pressure on said rolls, an adjusting device for said spring comprising a manually rotatable member mounted exteriorly of said structure and including means preventing displacement from a position of close proximity with said structure, a shaft having threaded engagement with said member and being axially movable by rotation of said member, said shaft having operative engagement with said spring, and means preventing rotation of said shaft during axial movement thereof, said means mounting an indicator pin in a manner to be axially movable



with and to the same extent said shaft is movable, said pin being capable of such movement with respect to said member as to give indication of the extent to which said shaft has actuated said roll pressure spring.

2,405,642
POWER GUN TURRET DRIVING MECHANISM
Alfred Corte, Glendale, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California
Application December 27, 1941, Serial No. 424,635
5 Claims. (Cl. 89—37.5)



1. Mechanism for use with a power driven gun turret having traversing and elevating components and driving mechanism for each of said components comprising a source of power, said mechanism including a pair of oppositely rotating clutches connected to each source of power, means for adjustably preloading said clutches to initially act in opposition to each other, a common driven shaft operatively connected with each pair of clutches to be selectively energized by either of its respective clutches each shaft serving to drive a component, and means for selectively and simultaneously controlling said clutches of either pair of clutches whereby to produce traversing and elevating movements of the turret components in either direction of motion.

2,405,643
STRUCTURAL CONNECTOR
André Crot, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 7, 1944, Serial No. 521,477
6 Claims. (Cl. 189—36)

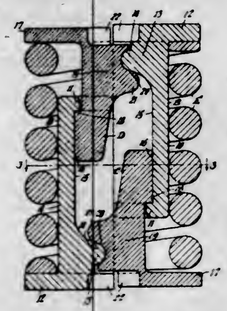
1. A connector for securing two elements together in assembled relation to have exposed faces in a common plane comprising a member

to be attached to each element to extend along an edge thereof, a flange part extending along each member, said flange parts projecting toward said plane and presenting opposing forward faces, serrations on the opposite forward faces of the flange parts extending in a direction generally transverse of said edges and adapted to mate to hold the elements against relative longitudinal movement, longitudinally extending



bulbs on the rear faces of the flange parts, and a channel key slid onto the flange parts to hold their serrations in mesh and having bulbs for cooperating with the first named bulbs to prevent relative transverse movement between the elements, the channel key presenting a surface occupying said plane to be flush with said faces and substantially closing the space between said faces.

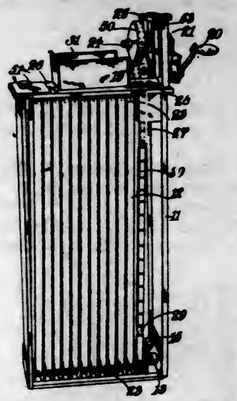
2,405,644
FRICTION SHOCK ABSORBER
George E. Dath, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 2, 1943, Serial No. 512,521
14 Claims. (Cl. 267—9)



1. In a friction shock absorber, the combination with a friction member; of a second friction member, said members having friction surfaces on the inner sides thereof; a pair of friction shoes between said members, one of said shoes being pivoted to said first named member and having sliding frictional engagement with the friction surface of said second named member, the other shoe being pivoted to said second named member and having sliding engagement with said first named member; and spring resistance means opposing relative sliding movement of said shoes and members toward each other and pressing the shoes against the friction surfaces of said members.

2,405,645
APPARATUS FOR PROCESSING PHOTOGRAPHIC FILMS
Robert John Duguid, Aberdeen, Scotland
Application April 29, 1944, Serial No. 533,339
In Great Britain May 14, 1943
3 Claims. (Cl. 95—90.5)

1. Apparatus for processing photographic films in comparatively long lengths comprising a treatment chamber, means for traversing a film in extended form through the treatment chamber, said means comprising an endless carrier arranged to be traversed in succession in two oppositely directed helical paths, a tensioning de-

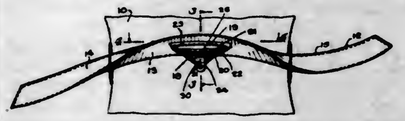


vice coupled at one end to the endless carrier and coupled at its other end to the film and by means of which slack in the film, during the winding-on operation, is avoided.

2,405,646
PROCESS OF MANUFACTURING VOLATILE ESTERS OF HYDROXY CARBOXYLIC ACIDS
Edward M. Filachione, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to United States of America as represented by the Secretary of Agriculture
No Drawing. Application May 28, 1945, Serial No. 596,252
8 Claims. (Cl. 260—484)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of manufacturing volatile esters of lactic acid which comprises heating lactic acid and a compound selected from the group consisting of glycerol and ethylene glycol in the presence of an acid catalyst, removing the water formed during the reaction from the condensation product thus formed, passing vapors of an alcohol through such condensation product in the presence of an esterification catalyst at a temperature not below the boiling point of the alcohol and not exceeding the boiling point of the ester to be formed by more than about 20° C., whereby a volatile ester of lactic acid is formed, withdrawing an admixture of the ester and alcohol vapors from the reaction zone, and then recovering the ester from said admixture.

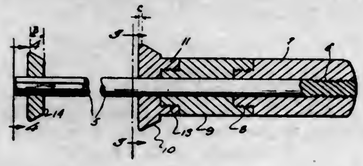
2,405,647
GARMENT BELT
Louis W. Foster, Philadelphia, Pa.
Application October 6, 1944, Serial No. 557,392
3 Claims. (Cl. 2—93)



1. In a belted garment, concealed retaining means for the belt including a loop arranged upon the inner face of the belt and extending lengthwise thereof, a tab-forming member

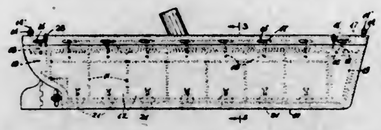
doubled upon itself to provide an inner ply permanently secured at its opposite ends to the garment and an outer ply having one end extending freely of the garment to form a tab adapted to be passed through said loop substantially at right angles thereto, and means for detachably securing the free end of said tab to the garment, said doubled tab-forming member being of an overall length less than the width of the belt whereby the latter conceals the tab from view and said loop being of a length substantially greater than the width of the tab whereby to permit of limited lengthwise adjustment of the belt relatively to the tab.

2,405,648
TAPER HOLE GAUGE
Robert E. Gray, Detroit, Mich.
Application May 18, 1944, Serial No. 536,174
2 Claims. (Cl. 33—174)



1. A taper hole gauge comprising an elongated stem having a threaded end portion and smooth throughout the remaining major portion thereof, a removable feeling contact having a central opening slidably receiving the other end portion of said stem, means to secure said contact in adjusted position relative to said stem, a spindle adjustably threaded on said threaded end portion of the stem, a second removable feeling contact of larger diameter than the first-named contact rotatably and slidably fitted on said stem between the first named contact and said spindle, a removable sleeve rotatably and slidably fitted on the stem between the second named contact and said spindle, and means separably connecting the opposite ends of said sleeve respectively to the adjacent ends of second named contact and the spindle.

2,405,649
DEVICE FOR SALVAGE OF SHIPS BY COMPRESSED AIR
George Hantjopoulos, New York, N. Y.
Application March 9, 1944, Serial No. 525,710
2 Claims. (Cl. 114—50)



1. In combination with a submarine or ship having a plurality of compartments from bow to stern, an air pipe line extending from said bow to said stern, means for controlling air in said pipe line and operable from the interior and from the exterior of said ship, branches from said air pipe line to said compartments and having control valves operable from the interior and from the exterior of said ship, one way valves in the bottoms of said compartments for draining same under pressure, and means for probably sealing breaks in certain of the walls of said compartments including a sealing composition within portions of said certain walls, and means for supplying heat to make said sealing composition flow to other portions of said walls.

2,405,650
CORE FOR METALLIC CASTING AND COMPOSITION FOR SAME
Carl E. Hartwig, Teaneck, and Raymond E. Roehrenbeck, Lyndhurst, N. J., assignors to Swan-Finch Oil Corporation, New York, N. Y., a corporation of New York
No Drawing. Application June 17, 1944, Serial No. 540,882
6 Claims. (Cl. 22—188)

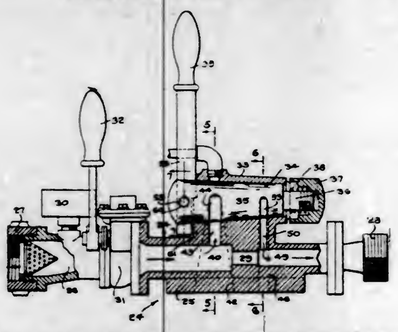
1. A core composition consisting predominantly of sand and containing partially polymerized urea-formaldehyde resin mixed with but not chemically combined with a calcium magnesium ligno-sulfonate in sufficient quantity to reduce substantially the stickiness of the core and on baking to render it highly resistant to moisture.

2,405,651
RETRACTABLE LANDING GEAR
Lewis H. Height, Eagle Rock, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation, a corporation of California
Application October 1, 1941, Serial No. 413,096
7 Claims. (Cl. 244—102)



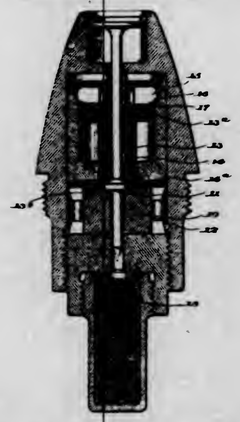
1. In a retractable landing gear for aircraft, apparatus comprising in combination, a landing wheel, a support for said wheel pivotally connected to a bearing fixed to said aircraft structure, and upon which said wheel and said support may be swung from an extended position, into said airplane structure to a retracted position, a toggle linkage pivotally connected at one end to an intermediate portion of said wheel support, and at the other end to a bearing fixed to said airplane structure, said toggle linkage including links having parts engageable one with the other to determine the opposite limits of motion of said wheel support from its fully extended to its fully retracted positions and to lock past dead center at either of the said extreme positions of said wheel support and means to apply force to said toggle linkage to vary the included angle between the toggle links about their common interconnecting knee joint, to actuate said locking action and to apply a rotational moment to said wheel support about its said pivoted connection to said airplane structure sufficient to swing said wheel and support from one of said limited extreme positions to the other.

2,405,652
FIRE EXTINGUISHING APPARATUS
Francis J. Hogenmiller, Philadelphia, Fisher L. Boyd, West Chester, and Lewis W. Boerner, Newtown Square, Pa., assignors to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware
Application October 12, 1943, Serial No. 505,900
12 Claims. (Cl. 169—15)



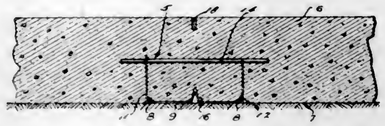
1. An apparatus for injecting foam-foaming material into a flowing stream of water comprising, in combination, a tank having a pair of independent chambers respectively adapted to contain separate supplies of foam-forming material, the said tank having an opening common to said chambers and disposed to provide direct access to each of said chambers, and a unitary water conduit and valve assembly mounted over said opening and including means for selectively controlling the flow of foam-forming material to said water conduit alternately from said chambers as desired and for diverting a portion of the water into that one of the chambers from which the foam-forming material is drawn whereby to subject the material in said chamber to a differential pressure to effect its delivery from said chamber.

2,405,653
FUSE FOR AUTOMATIC DESTRUCTION OF SHELLS
Guido Hönger, Geneva, Switzerland
Application May 27, 1941, Serial No. 395,466
In Switzerland July 9, 1940
2 Claims. (Cl. 102—71)



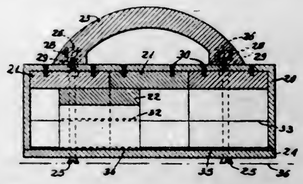
1. A sensitive percussion fuse for projectiles comprising a fuse body, a detonator therein, a striker having percussion means associated therewith, a tubular member coaxial with and surrounding the striker said member being axially slidable in the fuse body, an internal shoulder on said tubular member, a spring within said tubular member and abutting between said shoulder and the fuse body, centrifugally operated transport safety means normally held by the inner end of said tubular member in position separating said striker from said detonator, means on said tubular member for driving the striker towards said detonator under the action of said spring and having a one-way connection with the striker enabling the striker to move towards the detonator without restraint from said tubular member, a head on said tubular member, centrifugal weights of cylindrical form having rounded ends slidable radially in said head, and an internal conical ramp on the fuse body cooperating with the rounded ends of said weights to produce axial movement of said tubular member, the centrifugal action of said weights being predetermined to overcome said spring only above a critical angular velocity of the fuse.

2,405,654
CONTRACTION JOINT ASSEMBLY
Jesse B. Hunt, Sr., Raleigh, N. C.
Application September 16, 1944, Serial No. 554,466
2 Claims. (Cl. 94—17)



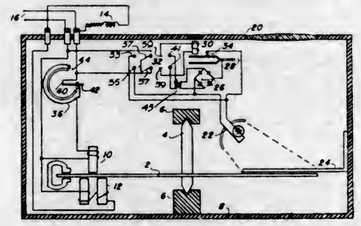
1. A contraction joint comprising an elongated structure including a plurality of transverse chairs, said elongated structure being transversely yieldable and dowels supported by said chairs, each of said chairs being provided with an upstanding crimp to permit the transverse yieldability of said elongated structure, said dowels each having one end secured to one end of a corresponding chair and being slidable through the opposite end of said chair.

2,405,655
PERMANENT SEPARATING MAGNET
Joseph J. Kehoe, Newark, N. J., assignor to Loretta A. Cammack, East Orange, N. J.
Application January 15, 1945, Serial No. 572,866
5 Claims. (Cl. 294—65.5)



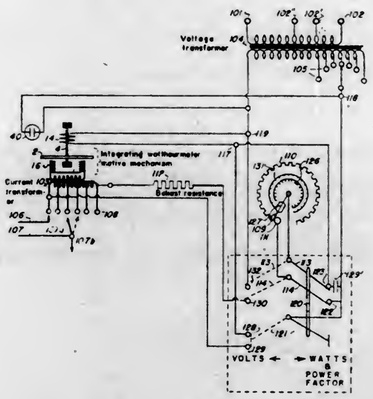
1. A permanent separating magnet, comprising a non-magnetic housing for a magnet, a magnet within said housing, and a handle on said housing, said housing having a removable bottom wall, screws with projecting heads engaged through said bottom wall for holding same in position, said screws extending through the housing and connecting with and holding said handle on the top of said housing.

2,405,656
POWER SURVEY INSTRUMENT
Otto A. Knopp, Oakland, Calif.
Application March 15, 1940, Serial No. 324,119
12 Claims. (Cl. 171—34)



1. In power survey apparatus, an induction rotor, means for causing said rotor to rotate at a speed which is a function of the power consumed in a load circuit, means associated with said rotor for directly indicating the power rate of said load, means for stopping said rotor, and indicating means associated with said stopping means for indicating power factor.

2,405,657
POWER SURVEY INSTRUMENT
Otto A. Knopp, Oakland, Calif.
Application July 10, 1940, Serial No. 344,665
29 Claims. (Cl. 171—34)

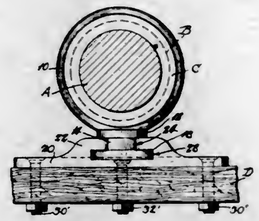


1. In an electrical instrument, an induction rotor, magneto-motive means for driving said induction rotor at different speeds which are a proportional function of a first electrical quanity, means including the rotor for indicating the values of such electrical quantity at such different speeds through direct observation of the rotor, and means whereby the functions of the magnetomotive means are alterable at will to cause the rotor to move at other and different speeds which are a proportional function of another electrical quantity which is a factor of the first mentioned electrical quantity, and means including the rotor for indicating the values of said other electrical quantity at such other speeds.

2,405,658
MOLDING MATERIALS
Henry Kremer, London, England
No Drawing. Application April 8, 1943, Serial No. 482,320. In Great Britain May 29, 1942
2 Claims. (Cl. 117—72)

1. A process for making a composite material moldable under heat and pressure which process comprises treating a particulate fibrous organic filler consisting of wood particles with sufficient blood to provide substantially all of said individual particles with a coating thereof, drying the blood-coated particles, superposing on the coated particles a coating of a water-soluble phenolic-formaldehyde resin and drying the coated particles.

2,405,659
ROWLOCK
Harry V. Larsen, Seattle, Wash.
Application January 24, 1945, Serial No. 574,255
1 Claim. (Cl. 9—26)

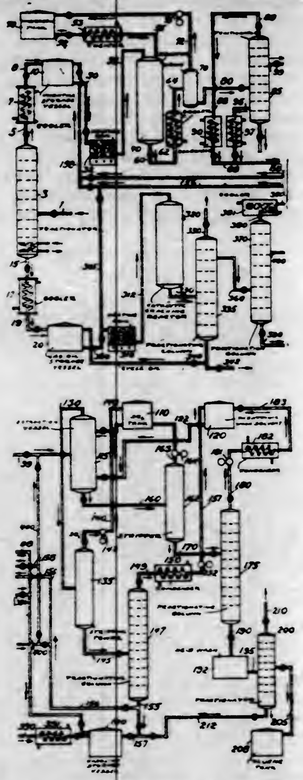


In combination, a ring rowlock and a swivel mounting therefor, said mounting being adapted to be fastened on the edge of the gunwale of a rowboat or the like and having a slotway opening through its top and inner side, and said ring having a substantially cylindrical shank, an annular supporting shoulder at the upper end of the shank, and a circular head at the lower end of the shank, said slotway being of inverted T-form, the upper narrower portion of said slotway terminating at its outer end in a circular opening, said shank being flattened at opposite points on its periphery to allow for its passage inwardly of the upper narrower portion of said slotway and into said circular opening for subsequent turning movements in the latter during rowing motions of the oar.

2,405,660
METHOD OF PRODUCING TOLUENE
Norman F. Linn, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 17, 1942, Serial No. 462,323
3 Claims. (Cl. 260—673.5)

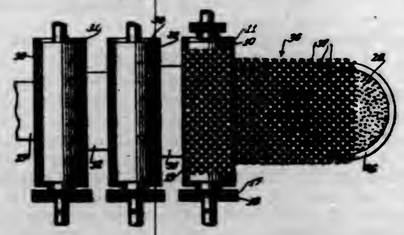
1. A method of producing toluene of high purity from a hydrocarbon product obtained by the hydrogenation of carbon monoxide which comprises fractionating the said hydrocarbon product into a naphtha fraction and a gas oil fraction, submitting the latter to a cracking treatment at a temperature of the order of 825–925° F. in the presence of a catalyst suitable for promoting the cracking of aliphatic hydrocarbons, recovering a fraction boiling at about 210° to about 250° F. from the product of said cracking treatment, combining such fraction with the naphtha fraction obtained in the fractionation of the product of the hydrogenation of carbon monoxide, subjecting the combined fractions to a reforming treatment at a temperature of the order of 850–1000°

F. and under a pressure of the order of 100–400 lbs./sq. in. in the presence of hydrogen and a catalyst comprising an oxide of a group VI metal,



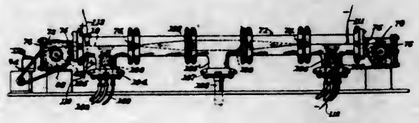
recovering from the product of said treatment a fraction boiling at about 210° to about 250° F. and treating such fraction to selectively separate therefrom its aromatic content.

2,405,661
METHOD AND APPARATUS FOR FORMING PERFORATED PIE COVERINGS
John MacManus, Yonkers, N. Y., assignor to Cushman's Sons Inc., New York, N. Y., a corporation of New York
Application August 20, 1942, Serial No. 455,412
6 Claims. (Cl. 107—54)



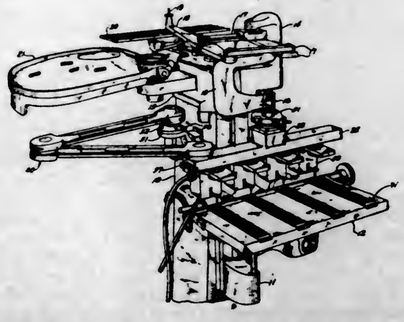
1. In a method for forming a perforated sheet of dough, the steps comprising forming a ribbon of dough and expanding said ribbon into a wider ribbon by displacing the dough and distributing it within the uppermost and lowermost planes of the formed ribbon with dies which leave perforations therein.

2,405,662
COATING
Charles E. McManus, John D. Elder, Giles B. Cooke, and Albert J. Dornblatt, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application August 30, 1941, Serial No. 409,090
5 Claims. (Cl. 204—192)



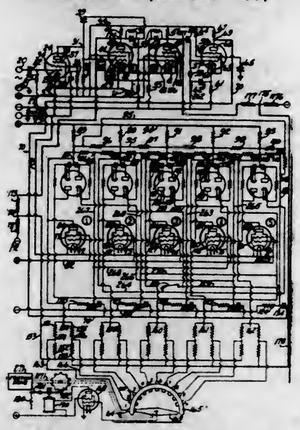
1. A method of coating a metal sheet with a vaporized metal comprising introducing the metal to be coated, prior to coating into a feeding zone and maintaining the same under reduced pressure therein, continuously advancing the metal sheet from said feeding zone in a substantially horizontal plane, while maintaining the metal sheet under reduced pressure, into a coating zone with the metal sheet at a temperature below that of the vaporized metal, maintaining that coating zone also under reduced pressure twisting the metal sheet through an angle of substantially 180° in the coating zone as it travels through the same, vaporizing the coating metal in said coating zone continuously as the metal sheet travels therethrough, maintaining a difference in potential between the continuously traveling metal sheet and the vaporized metal ions to thereby direct the vaporized metal to the metal sheet and to deposit the vaporized metal upon successively exposed longitudinally spaced opposite surfaces of the continuously traveling metal sheet presented by said twisting while the metal sheet is moving through the coating zone, and continuously collecting the coated metal sheet from said coating zone in a zone maintained under reduced pressure.

2,405,663
MECHANISM FOR GUIDING MULTIPLE TOOLS
Theodore Miller, Racine, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application September 13, 1944, Serial No. 553,821
6 Claims. (Cl. 219—15)



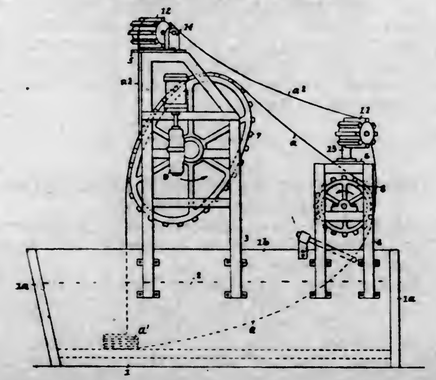
1. A machine for simultaneously making a multiple duplicate design comprising a frame, a universally laterally movable cutter head carried by said frame, a carrying rail pivotally mounted on said cutter head for movement thereby, parallel relationship maintaining mechanism operable between said frame and said rail to keep said rail parallel to a fixed plane as it is moved by said cutter head, and a plurality of metal working instruments secured to said bar and movable therewith.

2,405,664
ELECTRONIC ACCUMULATOR
Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 17, 1941, Serial No. 402,791
17 Claims. (Cl. 250—27)



1. In combination, a plurality of more than two anode-cathode electrode pairs each in a vacuum; means supplying operating energy to the electrode pairs, said means including a ring of resistors, means connecting the anodes to symmetrical points in the ring, and resistance connections from said points to a common source of electric potential; and a control means for each of the electrode pairs each joined to the ring of resistors at a point diametrically opposite to the associated anode connection.

2,405,665
APPARATUS FOR TREATING FABRICS WITH LIQUID
Rocco Nazzaro, Glen Rock, N. J.
Application September 22, 1944, Serial No. 555,373
3 Claims. (Cl. 68—176)

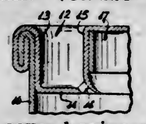


1. Apparatus for treating an endless fabric with liquid including a fixed structure itself including a liquid container, rotatable means in said structure above the liquid in the container and in an upright plane, for advancing the fabric lengthwise of itself and around which a portion of the fabric is extended in the form of a helix having convolutions thereof depending into the liquid, and rotary guiding reels solely supporting the remaining portion of the fabric in arched state over the helix and being journaled in said structure and both arranged to be cut by, and having their axes substantially perpendicular to, a vertical plane coincident with the end portions of the helix.

2,405,666
WELDING
Stanley M. Norwood, Great Neck, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application May 6, 1944, Serial No. 534,528
9 Claims. (Cl. 219—8)

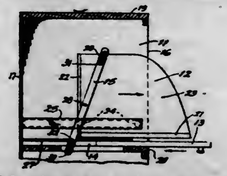
8. A welding rod composed of a substantially austenitic iron-chromium-nickel alloy containing 10% to 30% chromium; 4% to 30% nickel; 0.5% to 7% manganese; 0.05% to 0.25% vanadium; 0.01% to 0.5% carbon; the remainder, except for fluxing materials, iron and incidental impurities.

2,405,667
RECEPTACLE COVER
Andrew Ottesen, New York, N. Y.
Application January 20, 1944, Serial No. 518,981
1 Claim. (Cl. 220—48)



In a receptacle cover having a downwardly directed annular channel formed of an outer wall which continues into a base wall which in turn continues into an inner wall, and having an annular score line within said channel in the vicinity of the junction of said base wall and inner wall so that the bottom portion of the inner wall may be forced inwards relative to said outer wall for opening said cover along said score line, means for supporting an annular top portion of said inner wall for forming a fulcrum for the bottom portion when pried open along said score line, comprising a reinforcing band fixedly mounted in position on the top portion of the inner face of said inner wall and having its bottom edge portion spaced upwards of said score line.

2,405,668
FILING CABINET
John Warren Paxton, Bloomington, and Irving Richard Cornish, Elmhurst, Ill.
Application January 4, 1945, Serial No. 571,272
5 Claims. (Cl. 45—2)



1. A file cabinet comprising, a vertically disposed casing providing an open-front container compartment, a container mounted on said casing within said compartment for shifting between a storage position wholly within said compartment and an access position partially extended beyond the front of said casing, a casing panel constituting a closure for said open front of the con-

tainer compartment, means slidably mounted on said casing and hingedly connected to said panel to permit the swinging thereof into and out of the plane of movement of said means to be shifted therewith transversely of said casing, and mechanism connecting said means and container whereby the movement of said means and panel causes a shifting of said container between its storage and access positions.

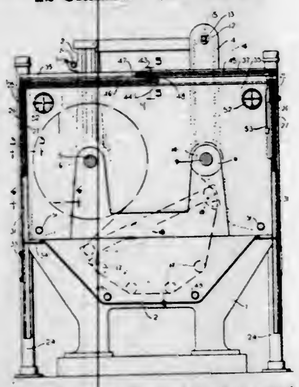
2,405,669

COLORATION OF TEXTILE MATERIALS

Herbert Platt and Cyril M. Croft, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

Application June 14, 1938, Serial No. 213,585

12 Claims. (Cl. 8—57)



1. A method of dyeing fabrics containing organic derivative of cellulose yarns, which comprises immersing the fabric in a heated bath containing a dyestuff, withdrawing the fabric from said bath and maintaining the fabric at substantially the same temperature as the temperature of the heated dye bath while it is out of the bath until dyeing is substantially completed.

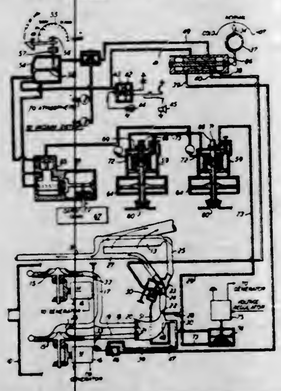
2,405,670

PRESSURIZING EQUIPMENT FOR AIRCRAFT

Nathan C. Price, Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application August 17, 1942, Serial No. 455,023

11 Claims. (Cl. 98—1.5)



7. In a compartment pressurizing system of the type described, a pair of superchargers, variable speed electric motors separately driving the same, a source of power therefor, a flow measuring Venturi pipe, ducts and check valves associated therewith arranged for both series and independent operation of said superchargers, a voltage regulator for controlling the speed of said motors, a pneumatic operating mechanism associated with said voltage regulator, and connections from said mechanism to said Venturi pipe, whereby to maintain a substantially constant air flow therethrough whether the superchargers are operating singly or in series.

2,405,671

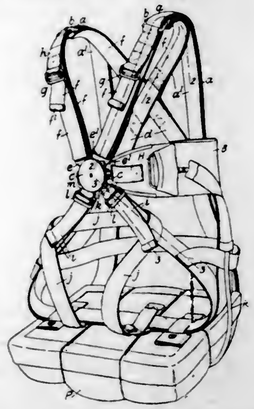
PARACHUTE HARNESS

John Raymond Cuthbert Quilter and James Gregory, Woking, England

Application December 11, 1944, Serial No. 567,598

In Great Britain December 24, 1943

6 Claims. (Cl. 244—151)



1. In parachute harness of the type described, comprising front and rear lift webs, adjustable spacers through which said front and rear lift webs are separately passed, a central quick-release device, and lugs for engaging the ends of said front lift webs with said quick-release device, adjusting means comprising straps attached to the continuations of said rear lift webs below said spacers, and front buckles attached to the said spacers, said straps running up through the said spacers, thence downwards to engage the quick-release lugs of the front lift webs and upwards again to said front buckles, their free ends being drawn through said buckles to tighten the harness.

2,405,672

REMOVAL OF HYDROGEN SULPHIDE FROM GAS STREAMS

Ronald E. Reitmeier, Louisville, Ky., assignor to The Girdler Corporation, Louisville, Ky., a corporation of Delaware

No Drawing. Application March 7, 1945, Serial No. 581,547

20 Claims. (Cl. 23—2)

2. A process for the removal of hydrogen sulphide from gaseous mixtures containing the same, which comprises scrubbing such gaseous mixtures with an aqueous solution of an alkali metal dichromate and a salt of a metal selected from the group comprising zinc, copper, cadmium, mercury, arsenic, tungsten, tin and vanadium, and in which said solution is maintained

of such acidity as will permit substantial precipitation of the sulphides of said last mentioned metals and prevent substantial formation of monochromates.

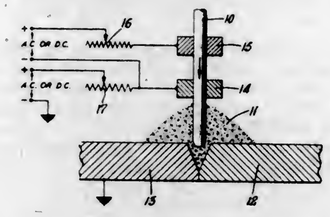
2,405,673

ELECTRIC WELDING

Egon B. Scherl, New York, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application January 20, 1944, Serial No. 518,915

3 Claims. (Cl. 219—10)



1. In the art of electrically melting and depositing metal from an electrode onto a metal workpiece and simultaneously melting metal of the workpiece and coalescing such melted metal with the deposited metal by passing an electric melting current through said electrode to said workpiece and maintaining a gap between the electrode and workpiece, the improvement which consists in the step of applying only to said electrode heat, in addition to the heat derived from the electric melting current, in an amount sufficient to increase the ratio of melted electrode metal to melted workpiece metal.

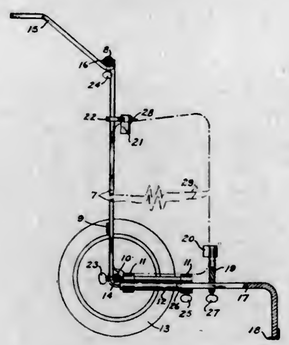
2,405,674

GOLF BAG CARRIER

Adolph M. Schliwa, Milwaukee, and Frank E. Anderson, Wauwatosa, Wis.

Application September 1, 1945, Serial No. 614,044

12 Claims. (Cl. 280—34)



1. A golf bag carrier comprising, a frame having opposite L-shaped side bars interconnected by an upper transverse rod and lower platform plates, wheels disposed on opposite sides of said frame and being adjustable toward and away from said side bars, a supporting prop adjustable toward and away from said platform plates midway between said side bars, and means for detachably clamping a golf bag to said frame with the bag bottom resting upon said plates.

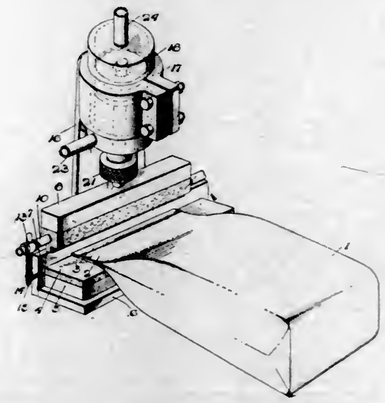
2,405,675

METHOD OF FORMING SEALS

Charles A. Southwick, Jr., South Norwalk, Conn., and Arthur F. Stagmeier, Upper Montclair, N. J., assignors to General Foods Corporation, New York, N. Y., a corporation of Delaware

Application July 25, 1940, Serial No. 347,542

8 Claims. (Cl. 154—42)



1. The method of forming a seal between adjacent flat sheets of packaging material having opposed surfaces of thermoplastic sealing material which comprises clamping said sheets together along the edges of the zone to be sealed, the clamped portions of the sheets in said zone forming a pressure chamber with one of said clamping members and then admitting a hot fluid under pressure to said chamber to heat and press said surfaces together while limiting the area of pressure application to said zone, whereby the seal is formed by fluid pressure without enclosing said packaging material in a pressure chamber.

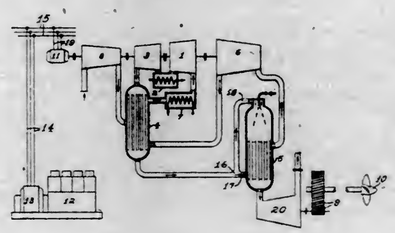
2,405,676

MARINE POWER PLANT

René Strub, La Chaux-de-Fonds, Switzerland

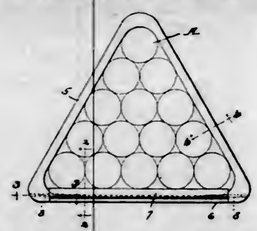
Application May 1, 1944, Serial No. 533,605

9 Claims. (Cl. 290—4)



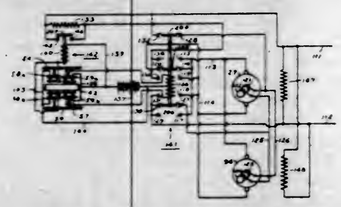
7. A motive power producing system comprising a gas turbine plant including a turbine producing said motive power and turbine-driven compressing means for raising the pressure of the medium for operating said turbine, and a supplemental power producing and receiving system connected with said compressing means for supplying power thereto and receiving surplus power therefrom and comprising a power producer operated independently from said turbine plant.

2,405,677
POOL BALL RACK OR FRAME
Michael Volpe, Pittsburgh, Pa., assignor of one-half to George I. Feilback, Pittsburgh, Pa.
Application May 29, 1944, Serial No. 537,876
5 Claims. (Cl. 273—22)



4. A pool ball rack comprising a frame, an adjusting tube mounted on the frame for horizontal movement with respect to the frame, bearings for the tube, and said tube adapted to rotate on its bearings, moving pool balls held in the rack, forwardly within the frame.

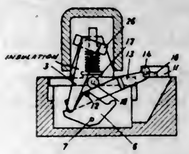
2,405,678
REMOTE CONTROL SYSTEM
Eric Clifton Wahlberg, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application August 6, 1943, Serial No. 497,600
5 Claims. (Cl. 172—239)



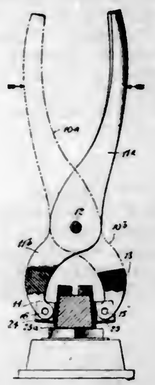
1. In combination, a member, a body, a controlling device mounted for movement relative to said member and having a zero position relative to said member, electric motor means in driving relationship with said member, electric motor means in driving relationship with said body, each of said electric motor means including an armature winding and a field winding, conductor means providing a path for the flow of current between fixed taps taken from said armature windings, means controlled by said device for connecting said armatures to means supplying electric power to drive said member and said body with motions such that their positions always bear a predetermined relationship to one another, said device also controlling means for bringing said member and said body quickly to rest while maintaining the predetermined relationship, both of said motors being operated in response to the displacement of said device from its zero position relative to said member.

2,405,679
PUSH-BUTTON SWITCH
Gustaf Adolf Wåhlström, Akeshov, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application September 11, 1944, Serial No. 553,609
In Sweden July 30, 1941
4 Claims. (Cl. 200—67)

1. A push button switch comprising a base, a push button, a cradle pivotally mounted in the base, stationary contacts on said base, means operable during successive actuations of said button to alternately turn said cradle into two different positions, a two armed lever, contact members carried by said lever and engageable with said stationary contacts, means mounting said lever to pivot in said cradle about an axis displaced from the pivotal mounting of the cradle, spring means exerting pressure on and tending to turn said lever about its pivot, the point of application of pressure of the spring means on said lever shifting along the lever from one arm to the other arm thereof as said cradle is turned from one position to the other.



2,405,680
BATTERY TERMINAL POST CLEANING DEVICE
John J. Williams, Bridgeport, Conn.
Application April 18, 1944, Serial No. 531,675
15 Claims. (Cl. 51—186)

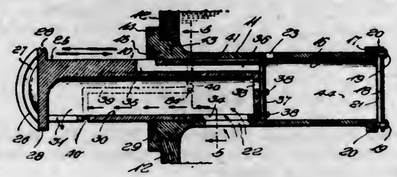


1. A battery terminal post cleaning tool comprising a pair of hand levers pivotally connected together intermediate their ends, each of one pair of adjacent ends being bifurcated; a pair of sheet metal jaws, one for mounting on each of said bifurcated ends, each of said jaws having substantially a semi-cylindrical shape and a longitudinally-extending tab along its central portion, interposed between the forks of its supporting lever end, the longitudinal edges of each jaw being folded, an abrasive lining for each jaw, having portions interposed in the folds of the jaw edges for holding the lining against incidental removal; and pin means extending through the tabs of the jaws and the associated lever end for fastening same together.

2,405,681
DRUM VALVE AND FAUCET
Walter R. J. Woock, Auburn, Calif.
Application March 15, 1943, Serial No. 479,280
4 Claims. (Cl. 222—400)

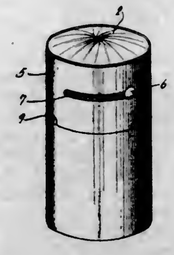
1. A dispensing device for closed containers consisting of a barrel adapted to be threadedly

engaged in a bung hole of a container, the barrel having a valve at its inner end and an inlet port, a cylindrical valve and faucet reciprocable within the barrel and having a longitudinal passage stopping short of the inner end, an inlet port being formed in the valve and faucet forming communication between the passage and the first named inlet port, the outer end of said cylindrical valve and faucet having a discharge port in communication with the longitudinal passage,



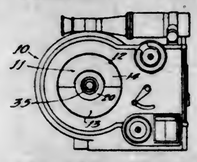
means for limiting outward movement of the cylindrical valve and faucet, said cylindrical valve and faucet having an air vent forming communication between the atmosphere and the interior of a container when partially withdrawn from the barrel, the cylindrical valve and faucet having a valve at its inner end for closing said air vent upon inward movement thereof, said cylindrical valve and faucet being rotatable to close the first named inlet port and reciprocable to build up pressure in the closed container.

2,405,682
CONTAINER
Boris Bogoslowsky, Jackson Heights, N. Y.
Application June 8, 1943, Serial No. 490,015
2 Claims. (Cl. 222—548)



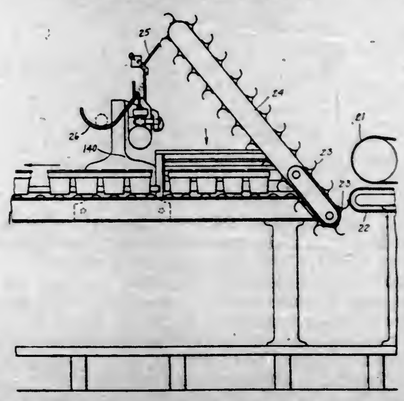
1. A container comprising a tubular member, a tubular collar telescoped over said tubular member and rotatable with respect thereto, the upper edge of said collar lying in substantially the same plane as the upper edge of said tubular member, a tubular piece of flexible material forming a closure for one end of said container, one end of said tubular piece of flexible material being attached to said tubular member, and the other end being attached to said collar with a loose, unattached portion between said attached ends, said loose, unattached portion being folded backwardly on itself and puckering inwardly on rotation of said collar relative to said tubular member to form a diaphragm consisting of folds converging toward the center of said tubular member, and means to prevent longitudinal movement of said collar relative to said tubular member when said collar is rotated thereon, which said means also serves to limit the rotating movement of said collar with respect to said tubular member.

2,405,683
KNOB
Theodore S. Briskin, Chicago, Ill., assignor to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application December 16, 1944, Serial No. 568,546
5 Claims. (Cl. 74—547)



1. A knob of the class described comprising a rotatable hub member, a hinged plate mounted thereon for movement from an inoperative position, wherein it is disposed in a plane substantially perpendicular to the axis of rotation of said hub member, into a position wherein it is disposed in a plane substantially parallel to said axis so that said hinged plate may be easily grasped, a latch slidingly mounted in said hub member and adapted to engage said hinged plate to latch the same in the inoperative position, and depressible means extending through said hub member, and engaging said latch for actuating the same.

2,405,684
DOUGH TWISTING MACHINE
John Buechek, Kokomo, Ind.
Application September 16, 1943, Serial No. 502,556
22 Claims. (Cl. 107—8)

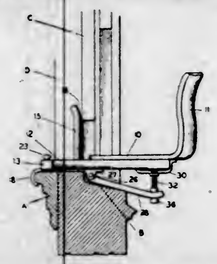


1. In dough handling apparatus the combination a twister device and a selector, the latter successively receiving elongated dough masses, said selector including a pair of spaced fingers arranged to pass therebetween the desired masses, an ejecting plate therebeneath, and means operable by mass engagement of a finger for moving said plate to mass intercepting position, said plate when not finger actuated normally permitting mass passage to the twister device.

2,405,685
WINDOW JACK
Frank J. Cantrell, San Francisco, Calif., assignor of forty-nine per cent to Eleanor Josephine Koch, San Francisco, Calif.
Application February 28, 1945, Serial No. 580,183
4 Claims. (Cl. 304—24)

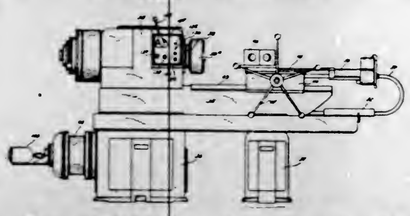
1. In a window jack having a platform member and base members rigidly affixed thereto, a hook member slidable horizontally relative to said

platform member, means to fix said hook member in rigid position, support means pivotally mounted on said base members and movable vertically relative thereto, and a unitary means to move said support means including a nut-forming member carried by said platform member, said last named



unitary means positioned under said platform and in vertical alignment with an aperture formed therein whereby said means may be regulated by an operator after occupancy of said window jack in order to raise or lower said platform without tilting said platform.

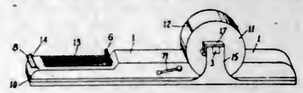
2,405,686
MACHINE TOOL
Robert H. Clark, Solon, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application June 11, 1943, Serial No. 490,468
12 Claims. (Cl. 29—64)



1. In a machine tool, a support, a rotatable spindle and a slide having feeding and idle movements relative thereto and both carried by said support, an indexible member carried by said slide, said spindle and said member being adapted to carry work and tools, a power drive for rotating said spindle in opposite directions, and an electrical control for said drive including a control circuit, a support carried direction control switch in said circuit for effecting change in direction of rotation of said spindle, cooperating means on said slide and support for actuating said switch at a predetermined point in the feeding movement of the slide, a slide carried direction control switch in said circuit in series with said support carried direction control switch, an indexible element having means to actuate said slide carried direction control switch in correlation to the different operative steps of the work cycle, and mechanical operative connections between said indexible member and said indexible element for indexing said element in correlation to the indexing movement of said member.

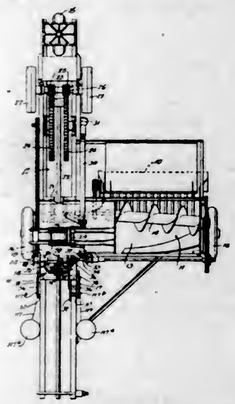
2,405,687
CALCULATING DEVICE
William F. Cleaver, Westmount, Quebec, Canada
Application May 14, 1945, Serial No. 593,742
In Canada May 31, 1944
2 Claims. (Cl. 235—1)

1. In a device of the class specified, a series of drums rotatably mounted on a fixed shaft and having coil spring connections thereto, scales on the outer surface of the drums showing time intervals and equivalent wages at a given rate, gears on the shaft secured to each drum, racks adapted



to mesh with the gears when contacted by a control bar, pivoted extensions to the racks having terminal arms with ball points adapted to enter perforations in a time card inserted below a slotted casing in which the arms travel.

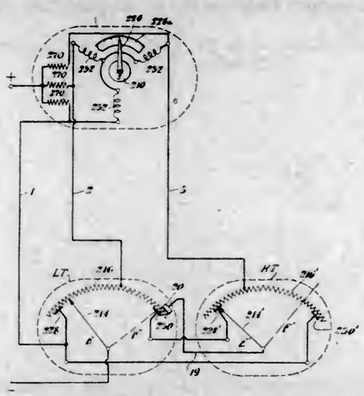
2,405,688
TIER
Charles F. Crumb, Clarendon Hills, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 23, 1943, Serial No. 484,275
18 Claims. (Cl. 100—20)



1. In combination, supporting means, means forming a baling chamber associated with said supporting means, a plunger mounted for reciprocation in the baling chamber, means for grasping portions of the ends of a strand extending around a bale in the baling chamber in the form of a loop, a bill-hook formed of two relatively movable parts and being operative to rotate to form a bight in the ends of the strand inwardly of the grasped portions thereof, to spread the parts to receive portions of the ends of the strand, and to close the parts to retain the last-mentioned portions, a tie being subsequently formed by sliding of the bight off the bill-hook and retaining of the portions between the parts of the bill-hook, means mounting the grasping means and the bill-hook on the supporting means for joint movement toward and away from the baling chamber, and means for moving the grasping means and the bill-hook toward the baling chamber during rotating of the bill-hook.

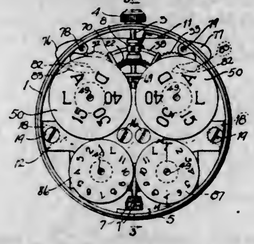
2,405,689
PLURAL TRANSMISSION MEANS FOR ELECTRICAL TELEMETRIC SYSTEMS
Clarence A. de Giers, Forest Hills, N. Y., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware
Application November 17, 1942, Serial No. 465,897
12 Claims. (Cl. 73—432)

1. In combination, an electrical indicating instrument, a plurality of transmitting instruments and electrical connections for successively controlling said indicating instrument by said transmitting instruments, at least one of said transmitting instruments including a resistance and a movable contact therefor, and means controlled by at least one of said transmitting instruments for transferring its control of the indicating in-



strument to another of said transmitting instruments, said last mentioned means including a device for disengaging said movable contact from said resistance and for simultaneously electrically connecting it to another of said transmitting instruments.

2,405,690
GAME REGISTER
Arthur W. Dew, Jackson, Mich.
Application June 8, 1944, Serial No. 539,266
19 Claims. (Cl. 235—114)

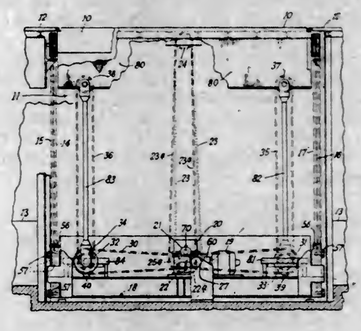


1. In a game register, a frame, indicator means movably mounted in said frame and advanceable from an initial position to bring, intermediate and final indicia thereon, successively into registering position in the order mentioned, a disconnectable drive connected to so advance and maintain said movable indicator means selectively in said intermediate or final position, means urging said indicator means to said initial indicating position, and a single means operable when said indicator means is in final indicating position to release said disconnectable drive and positively stop said indicator means in said intermediate position.

2,405,691
ELEVATOR
Charles E. Ellis, Mahwah, N. J., assignor to Sedgwick Machine Works, Inc., Poughkeepsie, N. Y., a corporation of New York
Application August 29, 1944, Serial No. 551,665
7 Claims. (Cl. 187—17)

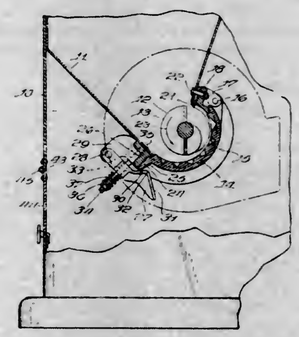
1. In an elevator having a car and a counterweight beam operatively connected to the car,

means for power driving the counterweight beam to thereby move the car, said power-driving means comprising: vertical endless link chain means adjacent to the beam between the ends thereof, a pair of vertical link chains one adjacent to each end of the beam, a motor mounted



on the beam, drive means operatively connected the motor to said link chain means, driving connections from said link chain means to the chains of said pair of chains, and driving connections from the chains of said pair of chains to the beam, whereby vertical movement is imparted to the beam in response to operation of the motor.

2,405,692
GRINDING MILL
John R. Hall, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 27, 1944, Serial No. 528,224
1 Claim. (Cl. 241—239)

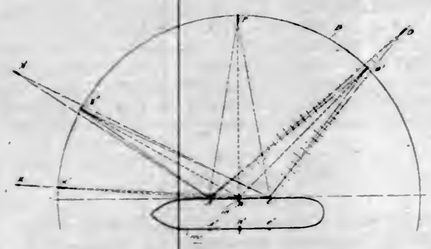


In a material treating machine comprising a housing, a rotatable cylinder within said housing, a concave partially surrounding said cylinder, said concave being hinged at one side of said cylinder and fastened by means of a yieldable latch at the other side of said cylinder, said yieldable latch having means for automatically releasing the concave upon the attainment of a predetermined pressure between said cylinder and concave, and further means for manually releasing said concave, said latch comprising a hinged lever having an inclined portion slidably engaging a beveled lug on the concave, a spring adapted to normally hold said lever in engagement with said beveled lug.

2,405,693
ACETYLENE SOLUTIONS
William H. Hamill and Richard E. Vogt, Notre Dame, Ind., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application October 15, 1940, Serial No. 361,274. Divided and this application May 11, 1943, Serial No. 486,560
3 Claims. (Cl. 252—1)

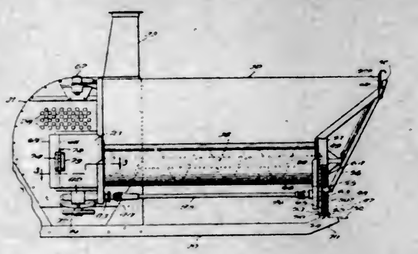
1. A composition of matter consisting of a solution of acetylene in an N-substituted morpholine in which the substituent on the N atom of the morpholine molecule is of the group consisting of —CH_3, —CO—H, —CO—CH_3, and —CO—$O(CH_2)_n$—H, wherein n stands for a number from 1 to 3.

2,405,694
DEFENSE SYSTEM
Nicolas Hersmark, Indianapolis, Ind.
Application August 11, 1942, Serial No. 454,393
2 Claims. (Cl. 89—41)



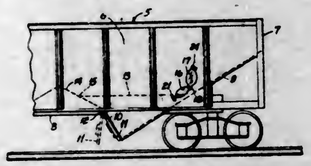
1. In a defense system against projectiles or the like, the combination of at least three spaced, electrically interconnected sound detector units in cooperation with one another, and comprising two outer and one inner unit, a gun or the like, a mounting for the gun for constantly maintaining it at a certain angle of elevation and for facilitating its swing within an angle of at least 180°, whereby the gun is adapted to shoot a charge for a predetermined distance, said inner unit being designed to train the gun towards an approaching projectile, said outer units being adapted to locate such projectile and to actuate the firing mechanism of the gun when the projectile reaches a point near the predetermined shooting distance of the gun, all of said units comprising pressure-and velocity-microphones mounted on a shaft and a reversible motor for actuating the shaft, said outer units also having variable condensers operative with their respective shafts, a high-pass filter and an amplifier and rectifier connected with each microphone of each unit, a rectifier bridge and a polarized relay forming parts of each unit, said polarized relays controlling the operation and the direction of operation of the respective motors of each unit; means for controlling the firing mechanism of the gun, said means comprising an oscillator, a bridge circuit energized by said oscillator and being controlled by said variable condensers of the outer units, an amplifier and rectifier, a relay controlled by the latter, another relay controlled by the amplifier and rectifier of the pressure microphone in one of the outer units, a third relay controlled by the amplifier and rectifier of the pressure microphone in the other outer unit, and a firing relay controlled by the three last-mentioned relays.

2,405,695
ENSILAGE BLOWER HAVING SWINGING FEED HOPPER
Rex B. Hitchcock, Evanston, and Samuel E. Hilblom, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 22, 1944, Serial No. 546,144
5 Claims. (Cl. 302—37)



1. In an ensilage blower, a fan, a fan housing having an opening in the side thereof, a feed roll mounted for rotation on a vertical shaft adjacent said opening, a housing for said feed roll, a feed trough hingedly mounted on said feed roll shaft, said feed trough forming a continuation of said feed roll housing when the feed trough is positioned parallel to said fan housing, and said feed roll housing having a side wall hinged to said fan housing, whereby said wall may be swung out of the way when said feed trough is moved to a position perpendicular to said fan housing.

2,405,696
DUMP CAR CONSTRUCTION
Fred Hoekgen, Saginaw, Mich.
Application August 21, 1944, Serial No. 550,391
3 Claims. (Cl. 105—253)



1. In a hopper car having a hopper therein sloping downwardly to a discharge door and having an ovately elongated tool passing port formed through the side of the car over the hopper thereof, the major axis of this port being extended in parallelism with the slope of the hopper bottom, a flat and elongated plate mounted over the outer side of the port, the inner and lower end of the plate being formed with a port therethrough in registry with the port of the car, and a closure element movably supported at one end upon the upper and outer end of the said plate and adapted to close downward over the ports of the plate and car.

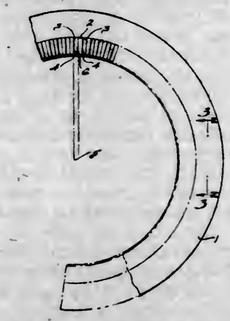
2,405,697
OIL WELL SAND PUMP
Howard G. Houston and John B. Humphrey, Inglewood, Calif.
Application December 22, 1944, Serial No. 569,357
15 Claims. (Cl. 103—204)

1. An oil well pump comprising: a barrel, a plunger reciprocable therein, a valve on said plunger for regulating the out flow of oil from the well, and means for injecting a desanding



fluid through said valve to points in the barrel below said valve.

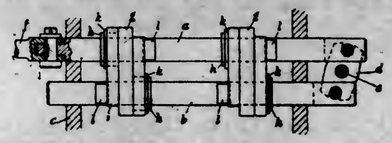
2,405,698
DOG CLUTCH
Charles M. Jameson, Battle Creek, Mich.
Original application September 24, 1942, Serial No. 459,536. Divided and this application April 23, 1945, Serial No. 589,776
2 Claims. (Cl. 192—67)



1. A dog clutch comprising a pair of clutch elements having a plurality of annularly arranged teeth adapted to mesh with each other, the spaces between said teeth being straight slots of uniform width and each tooth having one load carrying side, the contacting load carrying sides of each pair of engaged teeth on the respective clutch elements lying in a common plane when the clutch elements are engaged.

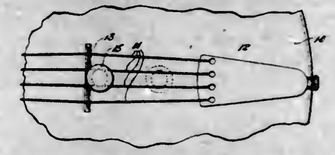
2,405,699
CONTROLLING MEANS FOR VARIABLE-SPEED POWER TRANSMISSION MECHANISMS
Henry Martin Kesterton, Wroxall, near Warwick, England
Application September 13, 1945, Serial No. 616,013
In Great Britain November 17, 1944
2 Claims. (Cl. 74—473)

1. Controlling means for variable speed power transmission mechanisms, comprising the combination of a pair of slidable members arranged parallel with each other and so interconnected that axial movement of one of them in either direction is accompanied by axial movement of the other in the opposite direction, gear changing members slidably mounted on the said slidable members, key pieces on the gear changing members adapted to be engaged with the slid-



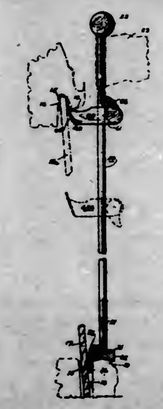
able members at appropriate positions, and a rotatable selection member adapted to actuate the key pieces.

2,405,700
MUTE FOR STRINGED MUSICAL INSTRUMENTS
Russell B. Kingman, Orange, N. J.
Application July 13, 1944, Serial No. 544,663
5 Claims. (Cl. 84—311)



1. A mute for a stringed instrument having a bridge by which its strings are supported comprising a unitary body of substantially circular form provided with a frusto-conical butt portion and a head portion of larger diameter having, at its underside, a flat plane surface perpendicular to the axis of the body and disposed to overhang said butt portion, whereby said flat plane surface of said head and the sides of said butt portion are in converging relation to thereby provide an annular substantially V-shaped string receiving and gripping channel intermediate said butt and head portions, and freely extending underside parts of said head portion being upwardly inclined to permit movement thereof onto the instrument bridge when the mute is slid forward on the supporting strings into muting engagement with said bridge.

2,405,701
FLAGSTAFF SUPPORT
Morris Lange, University Heights, Ohio
Application January 21, 1944, Serial No. 519,121
9 Claims. (Cl. 248—43)



1. A flag staff support adapted to be engaged between the sill and the top of an automobile

window frame comprising a staff, a base member on the bottom of the staff engageable with the sill, and an arm member slideably mounted on the staff above the base member, the said arm member having a flange thereon engageable with the aforesaid top.

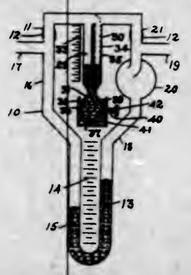
2,405,702
PROCESS FOR PREPARING PYRANTHRONE
Henry R. Lee, Pitman, and Joseph Deinet and Hans B. Gottlieb, Glassboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 23, 1944, Serial No. 536,986
1 Claim. (Cl. 260—360)

The process for preparing a relatively pure pyranthrone from an impure 2,2'-dimethyl-1,1'-dianthraquinonyl containing substantial amounts of 2-halogen-3-methylanthraquinones, which comprises fusing the crude 2,2'-dimethyl-1,1'-dianthraquinonyl with a phenol and an alkali metal hydroxide, diluting the fusion mass with ethyl alcohol, filtering off the pyranthrone, and washing the resulting pyranthrone cake with alcohol and with water.

2,405,703
PROCESS FOR TREATING AND COMPOSITION FOR COVER CLOTH
James G. Mackechnie, Jr., Springfield, Mass.
No Drawing. Application March 22, 1945, Serial No. 584,256
5 Claims. (Cl. 117—164)

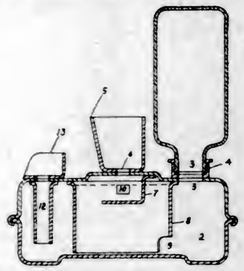
1. A method of preparing cover cloth for use in a hot ironing press which consists in impregnating cotton fabric with a homogeneous mixture consisting of approximate proportions by volume one to two parts of linseed oil, one to two parts of petroleum spirits, and one part of egg white together with about one to two tenths of a part of ester gum and finally drying said impregnated fabric by the application of heat and smooth ironing pressure.

2,405,704
FLOWMETER
Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 21, 1943, Serial No. 507,167
7 Claims. (Cl. 73—205)



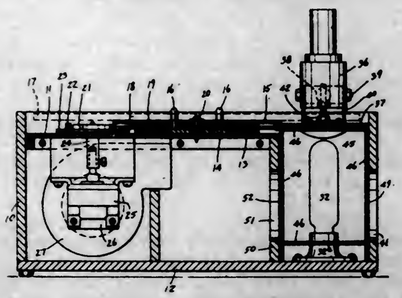
1. In a fluid flowmeter, in combination, a conduit, an inlet for admitting fluid into the conduit, an outlet for discharging fluid from the conduit, a porous tube disposed in the conduit and spaced therefrom to form an annular passage therewith, one end of the porous tube being closed, means forming a seal between the other end of the porous tube and the interior of the conduit, sealing means for varying the effective length of the porous tube, and a pressure gauge for indicating the drop in fluid pressure occasioned by the passage of fluid through the wall of the porous tube.

2,405,705
PROCESS AND APPARATUS FOR RECLAIMING GREASE
William Robert Mobley, Miami, Fla.
Application July 10, 1943, Serial No. 494,257
7 Claims. (Cl. 210—56)



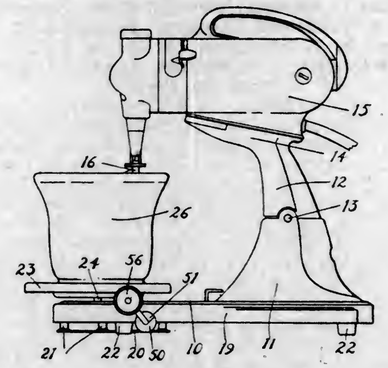
1. The method of reclaiming grease from heavier liquids which consists in filling a closed vessel to form a liquid body composed of a mixture of grease and a heavier liquid by passing the mixture into the vessel thru an inlet passage extending above the level of liquid in the vessel, separating entrained air from the liquid and venting said air from the upper portion of the vessel, discharging liquid from the vessel thru an overflow leading from the lower portion of the vessel, whereby the grease carried in the liquid is floated to the upper surface of said liquid body, forming a second body of like said heavier liquid in a closed retainer positioned above the liquid level in said vessel and having a common inlet and outlet passage communicating with the first mentioned body of liquid at a location removed from the flow path of said liquid passing from the inlet to said overflow and remote from the zone of said air separation, whereby the air is excluded from the second body of liquid and the grease floats from the first liquid body into the upper part of said second liquid body.

2,405,706
PICTURE PROJECTOR
George E. Musebeck and Frank P. Bennett, Danville, Ill., assignor to Musebeck Shoe Company, Danville, Ill., a corporation
Application May 21, 1943, Serial No. 487,912
3 Claims. (Cl. 88—27)



1. A picture projector comprising a housing, a rotatable turntable adapted to receive a picture record, means for periodically rotating said turntable, a centering ring carried by said housing, a centering bearing disk carried by and extending downwardly from said turntable adapted to rotate in centering relation with said ring, and a series of annularly disposed and spaced projections extending upwardly from said turntable adapted to extend through corresponding apertures in said picture record for imparting rotation thereto while maintaining the pictures carried thereby in focus when in projecting position.

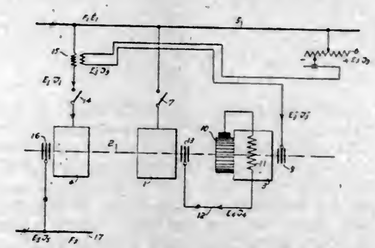
2,405,707
MOTOR-DRIVEN FOOD MIXER
Emanuel Nielsen and Arthur W. Seyfried, Racine, Wis., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application September 12, 1944, Serial No. 553,706
5 Claims. (Cl. 259—72)



1. A food mixer comprising a power unit, a laterally fixed rotatable agitator mounted in the power unit, a base, a mixing bowl, a shifter element mounted for lateral reciprocatory movement in the base, a bowl support rotatable in said shifter element, a pinion fixed on the bowl support to rotate therewith, a gear rotatably mounted on the shifter element in mesh with the pinion, an arm pivotally connected at one end to the gear eccentrically of the gear, a rotatable member mounted on a fixed support, the other end of the arm being pivotally connected to said rotatable member, and clutch means for holding said rotatable member stationary, rotation of said pinion caused by the rotary action of the agitator on the bowl imparting oscillatory movement to said shifter element laterally of the agitator.

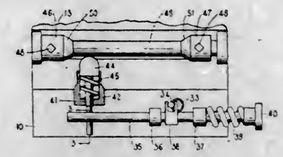
2,405,708
CONSTANT SPEED MOTOR SYSTEM
Georges Ogurkowski, Zug, Schonbuhl, Switzerland, assignor to Landis & Gyr, A. G., a body corporate of Switzerland
Application December 27, 1943, Serial No. 515,788
In Switzerland December 11, 1942
2 Claims. (Cl. 172—281)

1. A frequency converting system comprising a three-phase induction motor and a three-phase induction generator driven thereby, said motor and generator having rotor windings and stator windings, means for exciting the stator windings of said motor and generator at one frequency, the generator rotor being driven against the rotating field produced by excitation of the stator windings, a frequency converter connected to be driven by said motor, said converter having stator and rotor windings, means for exciting the rotor winding of said converter at said one frequency, means for feeding slip frequency potentials induced in said converter rotor winding to said motor rotor winding, said converter exciting potential being just large enough to provide a counter E. M. F. in the motor rotor so that power loss due to slip frequency is minimized, means for



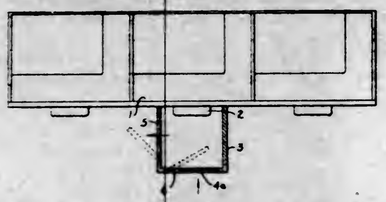
deriving a potential proportional to the generator exciting power, and means for applying said potential to said frequency converter, said potential deriving means being so arranged that said last-named potential is opposed to the excitation potential of said frequency converter and is so proportioned that as the generator load varies the counter E. M. F. applied to the winding of the motor rotor varies inversely to maintain a constant slip speed in the motor.

2,405,709
STOP MECHANISM
Olov J. E. Olsson, Minneapolis, Minn., assignor to Storm Manufacturing Company, Inc., Minneapolis, Minn., a corporation of Minnesota
Original application December 26, 1940, Serial No. 371,813. Divided and this application December 22, 1943, Serial No. 515,272
10 Claims. (Cl. 192—143)



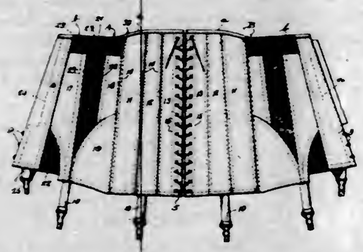
1. In combination, a first member, a second member, a device for causing said first and second members to be relatively moved in parallel relation to each other, an operating element upon one of said members, a switch including an actuator upon the other of said members, means adapted to be manually actuated to move said actuator to the "on" condition of said switch, a resilient member for moving said means to the "off" condition of said switch, and mechanism for retaining said means in the "on" condition of said switch upon manual actuation of said means, said operating element being adapted to actuate said mechanism in response to relative movement of said first and second members to cause the mechanism to release said means and said resilient member being adapted to move said means to the "off" condition of said switch when said mechanism is actuated to release said means.

2,405,710
COMBINED TELLER AND CUSTOMER BOOTH
John W. Phillips, El Campo, Tex.
Application December 13, 1943, Serial No. 514,142
2 Claims. (Cl. 109—5)



1. In bank equipment the combination with a teller's booth, of an enclosed customer's booth in the bank lobby adjacent and in communication with the teller's booth, said customer's booth being completely enclosed and having an entrant door opening opposite and in front of the teller's booth and also having an exit door opening, swinging doors for completely closing said openings, a transparent pane in the door opposite and in front of the teller's booth, locks automatically engageable with the doors for maintaining said doors in closed position and electrical means including solenoids under the exclusive control of the teller and which may be alternatively energized by the teller for alternatively releasing said locks.

2,405,711
CORSET
Irving Rosner, New York, N. Y., assignor to Even-Pul Foundations, Inc., New York, N. Y., a corporation of New York
Application January 20, 1945, Serial No. 573,730
3 Claims. (Cl. 2—28)



1. A corset comprising two similar sections having suitable means at the back for lacing and at the front for fastening the sections together around the body of the wearer, each section comprising a completely inelastic back portion provided with stays and a partly elastic front portion provided with stays, each front portion comprising a relatively short inelastic section, a gusset-like inelastic section joined to the lower end of said short section, said short section and said gusset-like section being joined to the associated back portion, a relatively long inelastic section joined at its lower part to the lower part of the gusset-like section, an elastic section connecting the major upper part of the long section with the short section and the upper part of the gusset-like section, a further inelastic section joined to said long section and carrying members of the fastening means, an elastic insert in the front portion of the lower end of said long section, and an elastic sewed-in gore at the tops of the long and short inelastic sections and the elastic section and connecting the back portion and said further inelastic section at the top.

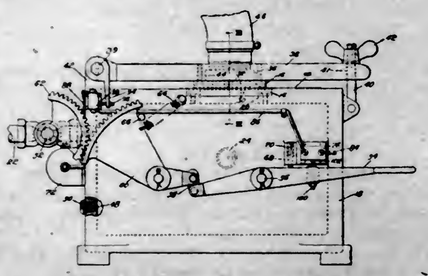
2,405,712
PRODUCTION OF ALCOHOLATES
William F. Russell, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 26, 1943, Serial No. 492,470
9 Claims. (Cl. 252—42.7)

7. In the production of hydrocarbon oil concentrates of barium and strontium alcoholates, the improvement which comprises reacting a compound of the class consisting of the oxides and hydroxides of barium and strontium directly with an alcohol comprising an aliphatic primary alcohol group in a high-boiling hydrocarbon medium at a temperature of about 200° C., the alcohol boiling above about 200° C., and separating the water of reaction.

2,405,713
PRODUCTION OF ALCOHOLATES
William F. Russell, Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 19, 1943, Serial No. 499,255
3 Claims. (Cl. 252—42.7)

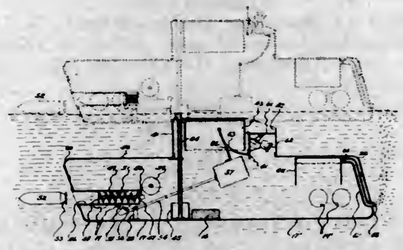
1. In the production of petroleum oil concentrates of oil-soluble barium alcoholates, the steps which comprise adding hydrous barium hydroxide and an inert hydrocarbon solvent to a high-boiling petroleum stock, the inert solvent boiling above the boiling point of water, dehydrating the barium hydroxide by heating the mixture to a temperature of 105° to 120° C. while refluxing the solvent, adding an alcohol comprising an aliphatic primary alcohol group to said mixture, reacting the barium hydroxide directly with the alcohol and separating the water of reaction by heating the mixture to a temperature of 200° to 220° C., the alcohol boiling above about 200° C., cooling the water-free mixture, and filtering insoluble material therefrom.

2,405,714
METHOD OF AND APPARATUS FOR PERFORATING SHEET MATERIAL
George F. Ryan, Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 27, 1944, Serial No. 555,922
11 Claims. (Cl. 164—93)



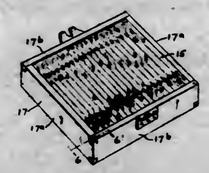
11. A perforating machine comprising a pressure chamber having an opening therein, a plate located adjacent to the opening and having perforations therein, an arm pivotally mounted upon the chamber, a second plate carried by the arm and movable into juxtaposition to the first-mentioned plate, said second-mentioned plate having perforations in alinement with the first-mentioned plate when the two plates are close together, a supply line for supplying an explosive mixture to the chamber, means for igniting the mixture including a spark plug, a fluid control valve, manually operated means for controlling the valve, means for initiating an operation of the spark plug subsequently to operation of the valve in admitting fluid to the chamber, and electrical connections between the manually operable means and the spark plug for preventing operation of the spark plug when the arm is in raised position.

2,405,715
TOY SUBMARINE
Frederick Sabini, Salem, N. J.
Application October 15, 1943, Serial No. 506,305
7 Claims. (Cl. 46—94)



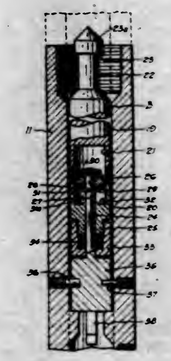
1. A self-submerging toy submarine comprising a hollow hull body having slow acting small capacity primary water admission means in its bottom portion below its normal water-line and relatively rapidly acting large capacity secondary water admission means spaced above but closely adjacent to its normal water-line, and said hull body having constant air vent means in its top portion.

2,405,716
FILTER PANEL
Oliver H. Schaaf, Shaker Heights, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application March 30, 1944, Serial No. 528,704
4 Claims. (Cl. 183—69)



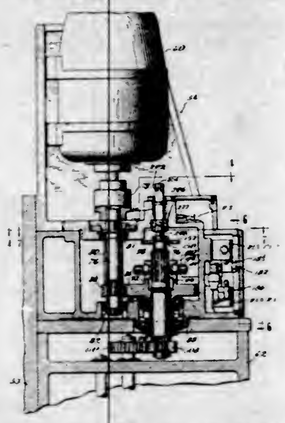
1. A filter panel comprising a frame having four sides, open at its front and rear faces and adapted to fit in a duct, a sheet of filter material near one face of said panel folded in zig-zag folds parallel to two opposite sides of said frame, there being a recess portion in each of said sides opening toward said panel face, the last of said folds adjacent each of said sides entering one of said recess portions, a second sheet of filter material near the other face of said panel folded in zig-zag folds parallel to the other two sides of said frame, there being recess portions in each of said last named sides opening toward said other face of said panel, the edge folds of said second sheet entering said last named recess portions, and the edges of each sheet normal to said folds substantially abutting the sides of said frame.

2,405,717
ORIENTING APPARATUS
Charles H. Schadel, Houston, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California
Application November 23, 1942, Serial No. 466,708
4 Claims. (Cl. 255—1.6)



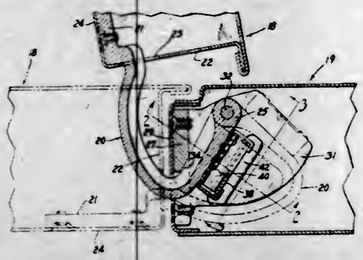
1. An orienting apparatus including, a drill pipe, a well device attached to the lower end of said pipe, an inclination indicating instrument mounted within the bore of said drill pipe, said instrument including, a tubular body defining a cylinder therein, a gravity responsive member mounted in the lower portion of the cylinder and movable to the low side of the cylinder when the instrument is in an inclined position, a piston slidable within the cylinder and normally spaced above the gravity responsive member, a record element mounted on the underside of the piston and adapted to be engaged and marked by the gravity responsive member when the cylinder and gravity responsive member have moved upwardly with respect to the piston and record element, the record element having a fixed indication on its underside, a piston rod having the piston secured to its upper end and having its lower portion projecting from the lower end of the upper section, a block secured to the lower end of the piston rod, means detachably and non-rotatably connecting said block to the drill pipe within which the tubular body is mounted, whereby the piston and record element are held against rotation within the cylinder and with respect to the drill pipe, said detachable means being disposed in a known angular relationship to the fixed indication on the record element and in a known angular relationship to the well device attached to the drill pipe, whereby the angular relationship of the fixed indication to the well device is known, the instrument being actuated, to effect marking of the record element by the gravity responsive member to record the position the low side of the well bore with relation to the fixed indication, by an upward pull upon the tubular body which causes the cylinder of said section to move upwardly with respect to the piston, continued upward pull on said instrument effecting detachment of the connecting means between the block and drill pipe, whereby the entire instrument may be withdrawn from the pipe.

2,405,718
MACHINE TOOL
Robert A. Schafer, Richmond, Ind., assignor to National Automatic Tool Company, Inc., Richmond, Ind., a corporation of Indiana
Application May 5, 1944, Serial No. 534,220
11 Claims. (Cl. 10—129)



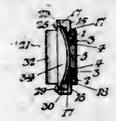
10. In a machine tool for performing tapping operations, the combination of a driving motor, a tap carrying spindle, a gear train including a clutch forming a driving connection between said motor and said spindle, electrical means for controlling the application of power to said motor, said means including two limit switches, a cam support, means for moving said cam support at a speed and to an extent proportional to the rotation of said spindle, a plurality of cams adjustably secured to said support for respectively operating said limit switches, means for operating said clutch to cause disengagement thereof, and means adjustably secured to said support and arranged to operate said clutch disengaging means upon failure of either of said limit switches to stop the operation of the motor when such limit switch is operatively engaged by its associated cam.

2,405,719
COMBINED DOOR-HINGING, DOOR-CHECKING, AND DOOR-HOLDING DEVICE
Rudolph I. Schonitzer, Shaker Heights, Ohio
Original application August 2, 1940, Serial No. 349,888, now Patent No. 2,343,810, dated March 7, 1944. Divided and this application August 21, 1943, Serial No. 499,750
3 Claims. (Cl. 16—141)



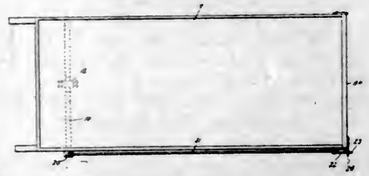
1. A combined door-hinging and door-holding device, comprising hinge leaf means for rigid securement to a door and for pivotal securement to the supporting structure for said door, a pair of spaced members carried by said supporting structure and between which said hinge leaf means swings during opening and closing movement of said door, a pair of spaced rollable means engageable at all times with said spaced members and cooperable with parts thereof in releasably holding said door from closing from a predetermined open position, a carrier plate for said rollable means having an intermediate portion secured to said hinge leaf means and having end portions offset from said hinge leaf means to provide sockets for said rollable means, and resilient means in said sockets and engageable with said rollable means for resiliently maintaining said rollable means in engagement with said spaced members.

2,405,720
SLIDE RULE
Albert L. Snedaker, Haddon Heights, N. J.
Application August 22, 1945, Serial No. 611,963
7 Claims. (Cl. 235—70)



1. A slide rule comprising a body portion having a concavely curved face; and a convexly curved lens slidably mounted on said body portion with the convexly curved surface of said lens in substantially concentric close juxtaposition to said concavely curved face.

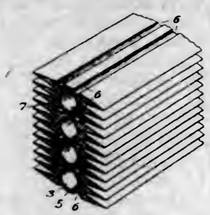
2,405,721
DUMP TRUCK AND LATCH
Willie W. Taylor, Rocky Gap, Va.
Application June 2, 1943, Serial No. 489,410
3 Claims. (Cl. 298—38)



1. In combination, a chassis, a truck body fulcrumed on the chassis, a rotatable shaft carried by the bottom of the body at a point remote from the fulcrumed point, a cross member in the chassis, a hook depending from the shaft and being engageable with the cross member, and hand means for actuating the shaft, said shaft being provided with a crank and resilient connecting means between the hook and the crank.

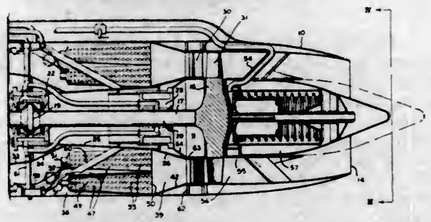
2,405,722
HEAT EXCHANGE STRUCTURE
Charles J. Villier, Louisville, Ky.
Application February 27, 1943, Serial No. 477,382
7 Claims. (Cl. 257—137)

5. A heat exchange duct structure comprising an elongate tubular body for separating two fluids for exchange of heat between them; said body having two opposite unflanged surfaces complementary in contour, said unflanged surfaces being joined by two other surfaces at least one of which is provided with longitudinal flanges, each of said unflanged surfaces being provided with longitudinally extending grooves, the base of one of said flanges being disposed adjacent a groove in one of said unflanged surfaces there



being a straight flat surface disposed between grooves in each of said unflanged surfaces.

2,405,723
PROPULSION APPARATUS
Stewart Way, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 10, 1943, Serial No. 482,533
1 Claim. (Cl. 60—35.6)



In apparatus for generating gaseous motive fluid for a jet propulsion nozzle, an axial flow compressor including a stator and a rotor; an axial flow turbine axially aligned with the compressor, spaced axially from the latter, and including a stator and a rotor; a shaft connecting the compressor and turbine rotors to constitute a spindle aggregate; bearings for the spindle aggregate and including a pair of bearings for said shaft with the turbine rotor overhanging the adjacent one of the latter bearings so that the entire space at the discharge side of the turbine rotor is left free for accommodation of the jet propulsion nozzle; a casing structure supporting said compressor and turbine stators; means including a tubular wall structure carried interiorly by the casing structure between the compressor and the turbine and cooperating with the casing structure to define an annular passage connecting the compressor outlet to the turbine inlet; said tubular wall structure telescoping said connecting shaft in spaced relation and interiorly supporting said pair of bearings; said annular passage including a diffuser section, a combustion chamber section, and a nozzle section with the diffuser section diverging in the direction of flow from the compressor outlet to the combustion chamber section and the nozzle section converging in the direction of flow from the combustion chamber section to the turbine inlet; burner space wall structure dividing the combustion chamber section into circumferentially-disposed burner and air spaces with the burner space open to the nozzle section, the air space open to the diffuser section, and the air space enveloping axially the burner space; said burner space wall structure being of conical conformation so that the burner space diverges in the direction of flow toward the turbine and the enveloping air space converges in the same direction; and a circumferential series of atomizers carried by the forward portion of said burner space wall structure and receiving liquid fuel and discharging atomized fuel into the forward end of the burner space; said burner space wall structure having openings distributed therealong and thereover and providing for flow of air from the enveloping air space to the enveloped burner space substantially throughout the length of the latter to support combustion of atomized fuel and admix with the products of combustion to form gaseous motive fluid of suitable temperature for the turbine and, in flowing over the air space boundary surfaces provided by the casing and tubular wall structures and by the burner space wall structure, to limit the temperature of all of such structures.

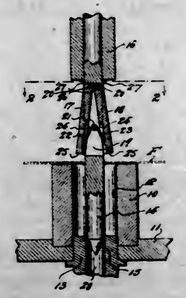
2,405,724
DISPERSIONS OF NEOPRENE IN AQUEOUS MEDIA
Frank N. Wilder, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 1, 1942, Serial No. 449,353
11 Claims. (Cl. 260—8)

1. A process for concentrating a polychloroprene-in-aqueous medium dispersion wherein the polychloroprene particles are negatively charged, which dispersion contains up to 2.5 per cent based on the weight of the dispersed phase of water soluble compound of the class consisting of alcohols, ketones and mixtures of such alcohols and ketones having a water-solubility at ordinary temperatures of about from 1 to 20 per cent which comprises adding to such dispersion an amount of a water-soluble alginate determined by the formula

$$A=KB(3-C)(70-D)$$

wherein A is the alginate in parts by weight, B is the aqueous phase in parts by weight, C is the water soluble compound of the class consisting of alcohols, ketones and mixtures of the same in per cent of the dispersed phase, D is the dispersed phase in per cent of the dispersion, and K is a coefficient whose value is within the range 0.00002 to 0.00010.

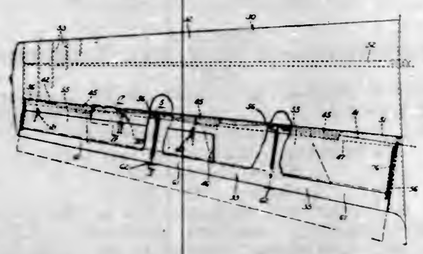
2,405,725
APPARATUS FOR PRODUCING ANNULAR COMPRESSED WIRE MESH UNITS
Otto H. York, Maplewood, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application March 2, 1945, Serial No. 580,696
8 Claims. (Cl. 140—71)



1. Molding apparatus for the purposes described comprising a mold body having an up-

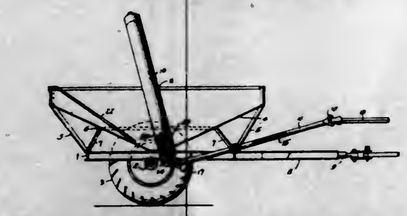
wardly open mold cavity, a mandrel adapted to be moved axially into and out of said mold cavity, said mandrel having yieldably and laterally projected push finger means spaced above its mold cavity opposing end, and a compression plunger slidable over and along said mandrel into and out of said mold cavity, whereby, when moved toward said mold cavity, said plunger operates to retract said push finger means into flush relation to the external surface of said mandrel.

2,405,726
AIRPLANE WING CONSTRUCTION
Edward F. Zap, Los Angeles, Calif.
Application August 14, 1940, Serial No. 352,516
4 Claims. (Cl. 244—42)



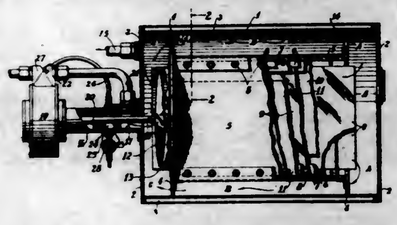
1. In an aircraft, the combination of: a main wing having a hollow rear portion with a spanwise rear opening; a first support member rigidly incorporated in said wing; a second support member normally telescoped into said rear portion of the main wing for retractible longitudinal movement from the wing through said rear opening; a curved guideway rigidly mounted on one of said support members; cooperating guide means mounted on the other support member in engagement with said guideway for movement along the guideway; a flap constituting a third member, said flap being normally telescoped into said hollow portion of the wing for retractible edgewise movement through said rear opening; a curved guideway fixedly mounted on one of said last two mentioned members; guide means on the other of said last two mentioned members in cooperative engagement with said last mentioned guideway for movement along said guideway; and means operatively connected to said flap member to move the flap member to various positions of extension from said main wing.

2,405,727
GRAIN CARRIER
Quentin J. Asberg, Angleton, Tex.
Application March 24, 1945, Serial No. 584,648
2 Claims. (Cl. 214—83)



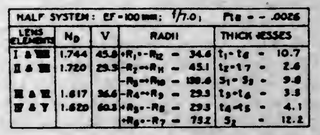
1. A grain carrier comprising, a hopper-shaped body adapted to contain grain, and the like, and having a marginal side notch, a carriage on which the body is mounted, a tractor hitch on the carriage, an elevator housing extending diagonally through one side of the body with its lower end beneath the body and having an inlet at the bottom of the body and having a discharge end resting in said notch and arranged to discharge the contents of the body out beyond the body, an elevator in the housing, means arranged to be driven by the power take-off of the tractor and to drive the elevator.

2,405,728
OZONIZER
Donald K. Allison, Beverly Hills, Calif.
Application June 26, 1941, Serial No. 399,910
6 Claims. (Cl. 204—319)



1. Ozonizing apparatus comprising a housing having side and end walls and having electrical ozone generating means therewithin, means defining communicating passages in the housing at opposite ends thereof and along its side walls, cooling means in heat exchange relation with said side walls, one of said end walls being provided with a substantially centrally-disposed opening, a supporting member carried by said one end wall outside of said housing and having a hollow chamber communicating with the housing, an air motor mounted on said supporting member, means to supply air under superatmospheric pressure to said motor to operate the latter, the air in passing through said motor being expanded, reduced in pressure and lowered in temperature, means to conduct the expanded and cooled air to said hollow chamber and thence to said housing, and an impeller drivably connected with said motor and positioned within the housing for forcing air delivered to said housing past said generating means and through said passages in heat exchange relation with the cooling means in a recirculating circuit.

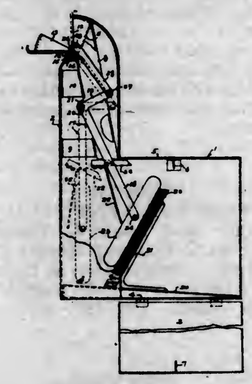
2,405,729
FOUR-COMPONENT OBJECTIVE
Fred E. Altman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 20, 1943, Serial No. 511,060
14 Claims. (Cl. 88—57)



1. An objective lens consisting of four components in axial alignment forming two halves which are optically spaced apart by between 0.04 F and F where F is the focal length of the objective, each half consisting of a biconcave component and a biconvex component spaced apart by between 0.02 *f* and 0.5 *f* where *f* is the focal length of the half, the biconcave component facing the other half of the lens, characterized by

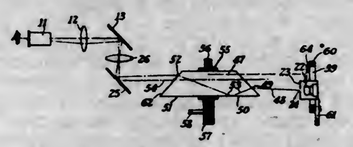
the radius of curvature of that surface of each biconcave component which faces the biconvex component being between 0.08 and 0.50 times that of the surface which faces the other half of the objective.

2,405,730
MAILBOX FITTING
William R. Bankson, Pittsburgh, Pa.
Application September 27, 1944, Serial No. 556,042
1 Claim. (Cl. 232—17)



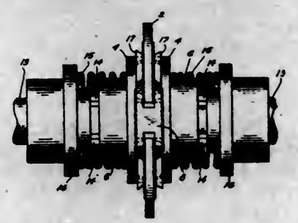
In a letter mail box of the class described, the combination with a letter chute and with operating levers pivotally supported by the chute and carrying a fixed closure block and a pivotally connected stacking plate, of a stop leg fixed to and depending from the closure block, the lower free end of said leg being positioned to engage the stacking plate below the pivotal connection of the latter to limit the angular movement of the stacking block during the letter stacking operation.

2,405,731
VARIABLE CIRCLE FOR STADIAMETRIC RANGE FINDERS
Joseph S. Beggs, Schenectady, and Daniel B. McRae and John H. Eagle, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 17, 1943, Serial No. 514,640
3 Claims. (Cl. 88—2.3)



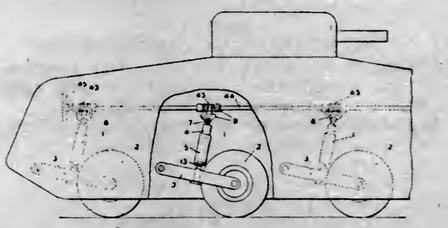
1. A device for forming a light circle comprising, in combination, an inverting prism adapted to be rotated about an axis passing through said prism and substantially parallel to one side thereof, a light source for directing a small beam of light toward said prism and in the direction of said axis but eccentric thereto so as to be incident on said prism at a point off said axis so that said prism will form an off-axis image of said beam, means for rotating said prism at a rate such that said image will appear as a continuous circle, and means for moving said light source to vary the off-axis relation of said beam to vary the size of said circle.

2,405,732
POSITIVE DRIVE DIFFERENTIAL
Nahum C. Bement, Rockford, Ill.
Application February 24, 1945, Serial No. 579,659
6 Claims. (Cl. 74—389.5)



1. In a differential, a driving member, driving clutch blocks fixed with said driving member and projecting from the opposite sides thereof, a pair of axle shafts extending transversely of said driving member in substantial alignment with the inner ends thereof adjacent to said driving member and to each other, a pair of driven clutch members on opposite sides respectively of said driving member and non-rotatively mounted on said axle shafts, respectively, driven clutch blocks fixed with each of said driven members and normally arranged in operative position between the driving clutch blocks on said driving member, peripheral notches in said driving member, an unclutching cam member loosely mounted in each of said notches, cam surfaces on said unclutching members, cam blocks fixed with said driven members, respectively, the cam surfaces of said blocks being arranged, upon rotation of its corresponding axle shaft faster than the other said axle shaft, to cooperate with cam surfaces of said unclutching members to effect disengagement of the driven clutch blocks of its driven member from the driving blocks on the adjacent side of said driving member and resilient means urging each of said driven members toward said driving member.

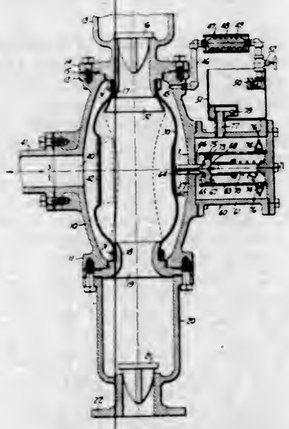
2,405,733
VARIABLE PNEUMATIC DAMPENER FOR STRUTS
Werner F. Boldt, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application February 20, 1943, Serial No. 476,608
5 Claims. (Cl. 267—64)



1. In a device of the class described, two members capable of relative movement and so constructed as to form a variable chamber, a substantially non-compressible fluid and a compressible fluid in the chamber, said compressible fluid being under pressure and free to act on the non-compressible fluid to place it under an equal pressure, means comprising a partition member having a restricted passage therethrough and

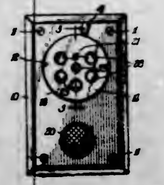
being carried by one of said members for dividing the compressible fluid and establishing a compartment for a portion of the compressible fluid, said compartment being such as not to have its volume varied when the volume of the chamber formed by the members and containing the two fluids is rapidly varied, and means for moving the partition member at will to vary the volume of said compartment.

2,405,734
PUMPING APPARATUS
Harrison S. Coe, Palo Alto, Calif.
Application August 19, 1944, Serial No. 550,240
14 Claims. (Cl. 103—44)



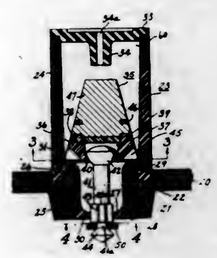
1. In a pump having a chamber and a diaphragm within said chamber and dividing the same into an impelling liquid compartment and a pumping compartment, inlet and outlet valves permitting the inflow and outflow of liquid from said pumping compartment upon movement of said diaphragm, a liquid holding chamber, valve means adapted to function in response to the action of the diaphragm to allow or prevent communication between said impelling liquid compartment and said liquid holding chamber, said valve means including means adapted to retard the closure of the valve through an interval of time dependent in duration on the volume of liquid in the impelling liquid compartment.

2,405,735
HOSPITAL PLUG CONNECTION
William P. Crockett, Chicago, Ill., assignor to S. H. Couch Company, Inc., North Quincy, Mass., a corporation of Massachusetts
Application January 24, 1944, Serial No. 519,523
4 Claims. (Cl. 200—51)



4. In a hospital plug connection for use with a plug having a plurality of contacts, a plurality of circularly arranged socket contacts for engagement with the contacts on the plug, a stationary circuit closing element with which the contacts in the connection are adapted to move radially into engagement when disengaged by the contacts on the plug, whereby to automatically close the circuits leading from the connection when the plug is pulled, a rotatable circuit opening element which when turned manually in one direction will force the contacts in the connection radially away from the circuit closing element, means for rotating the circuit opening element in said direction, and means controlled by and responsive to re-engagement of the plug and socket contacts for automatically returning the circuit opening element to its original inoperative position, said last mentioned means consisting of a spring which will yield resiliently to permit the circuit opening member to be turned into its operative position.

2,405,736
NONSPILL VENT PLUG
Robert A. Daily and Louis G. Crooks, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 6, 1943, Serial No. 509,240
1 Claim. (Cl. 137—139)



A non-spill vent plug for a container of a liquid which evolves gas comprising a tubular housing adapted to be secured to the cover of the container and having a vent-passage therethrough and providing at the inner end thereof a flat, annular valve seat surrounding said vent-passage and facing the interior of the container; a weight supported within the housing between the ends thereof and capable of tilting movement upon the housing toward the lateral wall thereof when the housing is inclined at a certain angle from the vertical; a rod having a lost motion connection with the weight and extending through the valve seat and providing a grooved abutment portion, a reduced portion having a diameter substantially that across the bottoms of the grooves of the abutment and having at its free end a frusto-conical valve rest facing the abutment and spaced therefrom by the reduced portion; a flat, disc-valve of resilient material having a central, cylindrical hole greater in diameter than the diameter across the bottoms of the grooves of the abutment and greater than the diameter of the reduced portion, the outer surface of the valve being spaced from the abutment when the inner edge of its cylindrical hole engages the rest provided by the rod, the tilting of the housing to a certain angle causing the weight to move the rod outwardly whereby the rest is urged against the inner edge of the hole in the valve to form a seat and whereby the peripheral portion of the valve engages the seat surrounding the vent-passage in the housing to form a seal

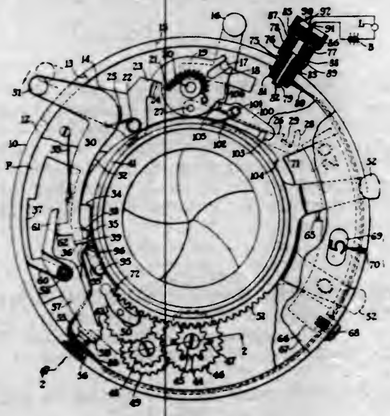
and whereby the plunger portion is spaced from the valve, the return of the housing toward vertical position causing the weight to move by itself to take up lost motion in the return direction between itself and the rod and thereby to tap the rod to break the seal between the valve rest of the rod and the valve while the valve remains in engagement with the seat provided by the housing, and causing the weight and rod to move together without appreciable retardation by the valve to take up lost motion between the abutment portion of the rod and the valve thereby to tap the valve to break the seal between the valve and the seat provided by the housing.

2,405,737
CERTAIN SULPHOSUCCINATES AND METHOD OF MAKING SAME
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Original application May 25, 1942, Serial No. 444,466. Divided and this application July 1, 1943, Serial No. 493,167
9 Claims. (Cl. 260—401)

1. Water-soluble surface-active sulphosuccinates within the molecular weight range of 536 to approximately 5,000 and of the formula

$$\begin{array}{l}\text{Cation.SO}_3\text{.CH.COO.R}_1\\ \quad\quad\quad\

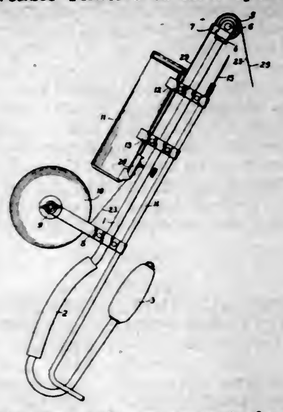
2,405,741
FLASH LAMP SYNCHRONIZING APPARATUS
Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 13, 1944, Serial No. 540,048
9 Claims. (Cl. 67—29)



1. In a photographic shutter having an associated flash synchronizing device the combination with a master member; shutter blades; operable connections between the blades and master member; a trigger mechanism for releasably holding said master member in a cocked position; and including a lever constituting a first latch member, a second latch member in the shutter adapted to be positively engaged by said first latch member in the shutter when the trigger mechanism is given an initial movement insufficient to release the master member; an actuating member movable between set and normal positions, normally inoperative driving means, including a retard mechanism, for driving the actuating member from its set to normal position; means on said actuating member for disengaging said lever from engagement with said second latch and then positively engaging said lever to further move the trigger mechanism to release the master member as the actuating member moves from its set to its normal position; means for instigating operation of said driving means at the completion of said initial movement of the trigger mechanism; of a switch in said shutter adapted to be connected into an electric circuit controlling the ignition of a flash lamp; said switch arranged to be closed by a part of said trigger mechanism during the initial movement thereof and in timed relation to the instigation of operation of said driving means for the actuating member in order to cause a delay between the closing of the lamp circuit and the opening of the shutter in accordance with the "lag" of a given flash lamp.

2,405,742
TAPING MACHINE
Glen Fulfer, San Francisco, Calif.
Application April 11, 1944, Serial No. 530,545
3 Claims. (Cl. 216—20)

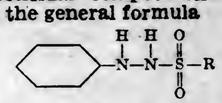
1. A taping machine comprising a staff; a tape reel and a traction roller on said staff; a plaster tank on said staff between said reel and roller and having an outlet opening; a chute surrounding said opening and comprising a trough-shaped cover moveable relative to said opening; and a



lip extending from the upper end of said opening and into said cover.

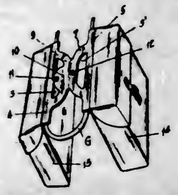
2,405,743
INSECTICIDAL COMPOSITIONS
Samuel I. Gertler, Washington, D. C., assignor to United States of America as represented by the Secretary of Agriculture and his successors in office
No Drawing. Application June 27, 1945, Serial No. 601,914
13 Claims. (Cl. 167—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insecticidal composition comprising a compound of the general formula



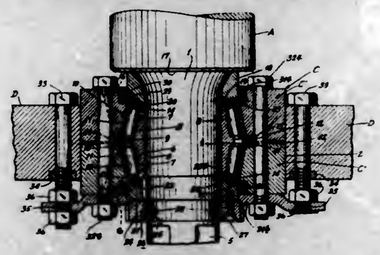
in which R is selected from the group consisting of phenyl and tolyl radicals, incorporated in a carrier selected from the group consisting of a mixture of a dust and a sticking agent and a mixture of a dust, a wetting agent, and water.

2,405,744
DOUBLE LUGGAGE BAG FOR CYCLES
Sigmund Glass, Zurich, Switzerland
Application August 24, 1944, Serial No. 550,997
In Switzerland June 23, 1943
2 Claims. (Cl. 224—44)



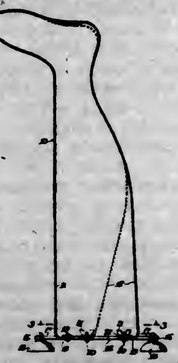
1. In a double luggage bag, a pair of bag sections, and a unitary handle construction for both bag sections comprising a pair of strips respectively attached to the bag sections at a longitudinal edge, a hand strap portion of loop formation extending from the other edge of each strip and said hand strap portion being connected together on a weakened straight fold line intermediate said strips whereby the handle construction may be mounted upon a substantially flat support with the bag sections suspended at opposite sides of the support and said hand strap portions adapted to be moved on the fold line into substantially juxtaposed position for adjacently positioning the bag sections.

2,405,745
BEARING MOUNTING
Paul L. Haager, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 4, 1944, Serial No. 566,436
11 Claims. (Cl. 308—207)



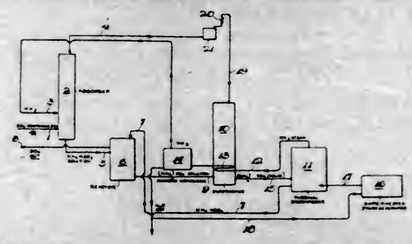
1. A roller bearing mounting comprising a bearing box, a rotary member extending into said box and a double row roller bearing interposed between said box and the portion of the rotary member therein, said bearing comprising an inner bearing member mounted on said rotary member and having raceways, a series of rollers for each raceway and a separate outer raceway member for each series of rollers mounted in said box, said box having an internal annular groove therein between the adjacent ends of said outer raceway members, a spacing ring mounted in said groove in endwise abutting relation to said adjacent ends of said outer raceway members, said box being split transversely on a line passing through said annular groove to provide separate box sections one for each outer raceway member, whereby said outer raceway members are insertable in and removable endwise from the respective box sections when the latter are separated, and means for removably securing said box sections together with said spacing ring clamped in said annular groove between the side walls thereof.

2,405,746
HOSIERY DRIER
Samuel Heath and William E. Greenlee, Philadelphia, Pa.
Application June 16, 1944, Serial No. 540,633
5 Claims. (Cl. 223—77)



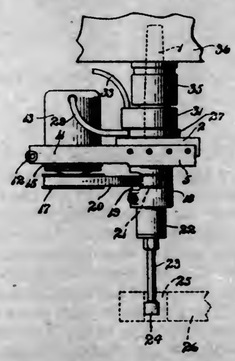
1. A hosiery drier consisting of a base having a longitudinal slot intermediate the ends of said base and terminating short of said ends, a pair of spaced fingers at each end, a suction cup detachably mounted on each one of the pair of fingers, a leg form of wire including two branches, inturned extensions at the ends of said branches and positioned in the slot of the base, means to anchor one of said branches, and means to slidably and adjustably mount the other of said branches on the base.

2,405,747
RECOVERY OF ACIDIC GASES
Arthur W. Hixson, Leonia, N. J., and Ralph Miller, Woodside, Long Island, N. Y., assignors to The Chemical Foundation, Incorporated, a corporation of Delaware, as trustee
Application April 20, 1944, Serial No. 531,936
9 Claims. (Cl. 23—178)



9. A method of recovering sulphur dioxide from sulphur dioxide-containing gases which comprises, contacting the gases with ammonia and water to thereby form a solution of ammonium bisulphite; reacting the ammonium bisulphite with ammonium acid sulphate under temperature conditions controlled to evolve sulphur dioxide and form a solution of ammonium sulphate; recovering the evolved sulphur dioxide; evaporating the ammonium sulphate solution; thermally decomposing the residue to recover ammonia and ammonium acid sulphate therefrom, recycling such ammonia in the process for contact with incoming gases and recycling the recovered ammonium acid sulphate to treat additional quantities of ammonium bisulphite.

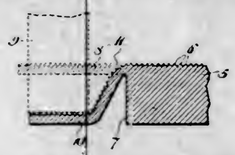
2,405,748
INTERNAL GRINDER
William Johnson, Muskegon Heights, Mich., assignor of one-third to Arthur J. Brickner and one-third to Henry W. Kropf, Muskegon Heights, Mich.
Application October 18, 1944, Serial No. 559,299
1 Claim. (Cl. 51—43)



A mechanism as described comprising, a spindle mounted to be rotated, a head on said spindle,

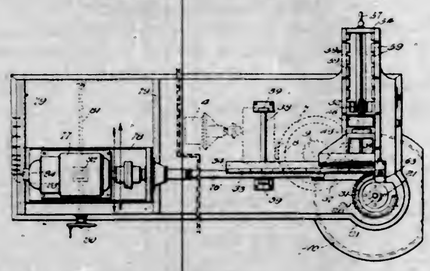
guideways on said head extending perpendicular to the axis of the spindle, a supporting block mounted on said guideways, means for adjusting said block on said guideways, a shaft rotatably mounted on said block having an axis parallel to the axis of the spindle, a relatively small pulley on said shaft, a grinding wheel on said shaft, a rotatable support on said block spaced laterally from said shaft, means for clamping said support in adjusted rotated position, an electric motor mounted with its shaft eccentric to the axis of said support, a relatively large pulley on said motor shaft and a belt extending around both of said pulleys.

2,405,749
SQUARE FINISH PHOTOENGRAVED HALFTONE PRINTING PLATE AND THE METHOD OF MAKING SAME
Lawrence Kern, Philadelphia, Pa.
Application September 2, 1943, Serial No. 501,010
2 Claims. (Cl. 101—401.3)



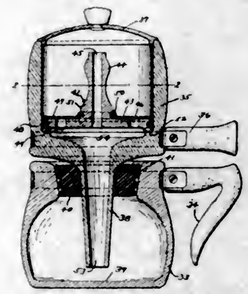
1. The method of producing a rounded edge on an original photo-engraved halftone printing plate which consists in beveling the straight edge on the back of the plate, and then turning the edge down by suitable pressure on the printing surface to form a rounded edge that carries the dots over the edge until it softly removes itself automatically from printing contact.

2,405,750
PIPE BENDING MACHINE
Charles E. Lampe, Sr., Philadelphia, Pa., assignor, by direct and mesne assignments, of four-tenths to Charles Lovejoy, and one-tenth to Henry M. Kannee, Washington, D. C.
Application August 17, 1943, Serial No. 498,949
7 Claims. (Cl. 153—40)



1. In a pipe bending machine, a forming wheel, the periphery of the latter being concaved to receive a pipe therein, a portion of said periphery being recessed, a block carried in the recess of said periphery having the outer face thereof concaved, the upper and lower edges of said block at the outer face thereof being provided with outstanding flanges, a clamping member comprising a body portion and movable and stationary jaws, said jaws having grooves therein to receive the flanges of said block, an insert block carried by said clamping member abutting the outer face of the first mentioned block and having a concaved face to cooperate with the concaved face of the first mentioned block, and an adjusting screw cooperating with the body portion of the clamp and said insert block to secure the elements together and lock a pipe end to said forming wheel.

2,405,751
APPARATUS FOR BREWING COFFEE
Joseph McMenamin, Clementon, N. J.
Application December 23, 1942, Serial No. 469,943
2 Claims. (Cl. 99—289)

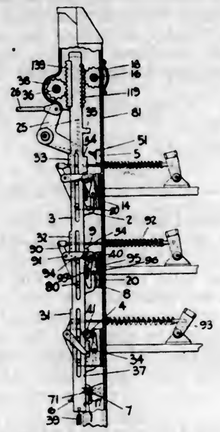


1. A coffee maker comprising a liquid vessel, a grounds receptacle supported by said vessel and in communication therewith and supporting and ejecting means for grounds received in the grounds receptacle comprising an apertured flange member movable upwardly in and of substantially the same interior diameter as the grounds receptacle, and including a handle member extending upwardly from the central portion of the flange member, a filter cloth carried by and extending over the upper surface of the flange member, and having a roll portion snugly embracing the handle member adjacent to the point of juncture thereof with the flange member, and a gasket-like member surrounding the flange at the edge thereof and engaged by the filter cloth and adapted with the cloth to perform a wiping action against the inner wall of the grounds receptacle on removal of the flange member.

2,405,752
BOMB RELEASE
Robert J. Minshall, Fred P. Laudan, and Elliott G. Emery, Jr., Seattle, Wash., assignors, by mesne assignments, to the United States of America, as represented by the Secretary of War
Application February 4, 1935, Serial No. 4,774
32 Claims. (Cl. 89—1.5)

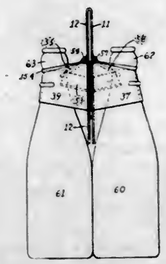
1. A multiple station bomb release comprising a release device at each station, means at each station to retain the same in cocked position, each of said means including a trip element, actuating means movable to engage a trip element to release the corresponding station, and a selector bar movable past the stations in succession to position the successive trip elements for engagement by the actuating means.

30. A multiple station bomb release comprising a release device at each station adapted to be set in a cocked or bomb-holding position, means at each station to retain the release device in cocked position, and adapted to be conditioned for operation to disengage the release device, a mechanical device positioned adjacent and movable into operative relationship to the retaining means at each cocked station in succession to condition such retaining means for operation to disengage the release device, and a tripping device movable with relation to all sta-



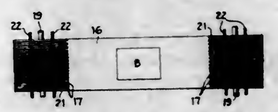
tions, and operable only upon any such conditioned retaining means of a station to disengage the same from the release device.

2,405,753
BOTTLE CARRIER
Earl E. Morgan, La Fayette, Ind.
Application April 5, 1944, Serial No. 529,558
6 Claims. (Cl. 294—87)



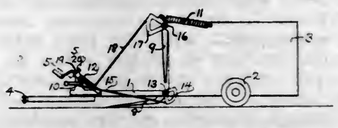
1. A bottle carrier comprising a sheet symmetrical on opposite sides of a median line and formed, on each side of said line, with a hand-hole and a plurality of ports, said hand-hole and ports at one side of said line being adapted and arranged to register with the corresponding openings on the other side of said line when said sheet is folded on said line, two retainer units, each formed to provide a plurality of yokes open at their tops and bottoms and projecting in a common direction from a base, the number of yokes in each retainer unit being equal to the number of ports in said sheet on one side of said line, and the yokes of each unit being projected through said ports with the bases of said units disposed in substantial contact with each other between the sides of said folded sheet, means securing the sides of said folded sheet together to imprison the bases of said units, and means carried at each side of said sheet and cooperable with the necks of bottles projected through the yokes at that side of said sheet to retain such bottle necks against withdrawal from the yokes with which they are associated.

2,405,754
MULTICOLOR PRINTING
Alexander Murray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 26, 1944, Serial No. 523,999
12 Claims. (Cl. 101—211)



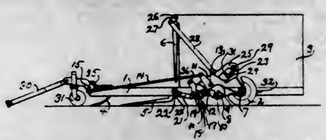
1. The method of making a multi-color impression with a single printing operation that comprises forming separate color component printing images upon the faces of separate packs of strips, the strips of each set having their edges in a common plane, reassembling in succession in a single pack the sets of strips from all the separate packs, separately applying inks of different colors to the edges of the strips of each set, then placing the freshly inked edges of all the sets in a common plane and printing from them simultaneously upon a print-receiving surface.

2,405,755
HAY GATHERER
William H. Rodefeld, Richmond, Ind.
Application January 5, 1945, Serial No. 571,396
1 Claim. (Cl. 214—78)



A machine to take up and transport hay and similar material consisting of a wheeled chassis with a carrying compartment, a set of tines hinged to the chassis and extending forward and in close proximity to the ground to pass under material on the ground as the machine moves forward, means to swing the said tines upward to elevate material thereon to the carrying compartment, a set of arms arranged to swing against the material to hold it in the carrying compartment and means whereby the said tines and the said arms compress the said material in the said carrying compartment.

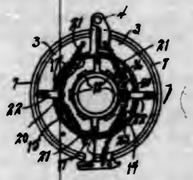
2,405,756
HAY HARVESTER
William H. Rodefeld, Richmond, Ind.
Application January 6, 1945, Serial No. 571,556
6 Claims. (Cl. 214—79)



1. A machine to handle hay and similar material consisting of a wheel supported frame carrying a set of raking teeth near the front end thereof arranged to rake material into bunches as the machine moves forward and to rise and drop the said bunches and a set of loading teeth located behind the raking teeth with their front ends arranged to slide on the ground under the bunched material dropped by the raking teeth and their back ends carried by the frame in such manner as to permit the front ends to be raised

to carry the material upward and backward to a carrying compartment and a set of holding arms supported above the said loading teeth and arranged to swing downward and rearward to pass between the said loading teeth to hold the material in the carrying compartment.

2,405,757
PIPE WRENCH
Arthur M. Rowland, Graham, Tex.
Substituted for application Serial No. 161,713, August 30, 1937. This application April 30, 1941, Serial No. 391,192
10 Claims. (Cl. 255—35)

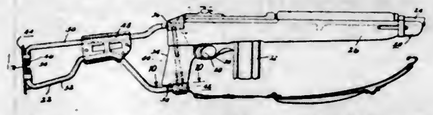


1. Mechanism for handling pipe, and the like, comprising a split collar having sections hinged together with means for holding the same in closed concentric relation, each of said sections carrying a segment mounted therein having means for gripping engagement with a pipe, means forming a plurality of interfitting cam surfaces between each collar section and its segment arranged to force the segment inward in gripping engagement with the pipe upon relative turning movement of the collar in either direction with respect to the segments, said cam means including a plurality of circumferentially aligned grooves and ribs on the segments, and interfitting grooves and ribs on the collar and arranged in cooperating overlapping relation with each other, and means for rotating the collar in either direction.

6. In pipe turning mechanism, a support, an annular collar for surrounding and engaging a pipe to rotate the same, said collar having a side only thereof arranged in horizontal overlapping relation with said support and having the major portion thereof projecting free from said support, and means connected between the overlapping portions of the collar and the support for journaling said collar on the support including a substantially T-shaped track connected with one of said elements and a portion connected with the other of said elements and having a groove therein embracing opposite sides of the head portion of the T-shaped track, said collar including segmental sections adapted to be opened to receive the pipe, and the track being arcuate and of shorter circumferential length than one of the sections and suporting the collar thereby when opened.

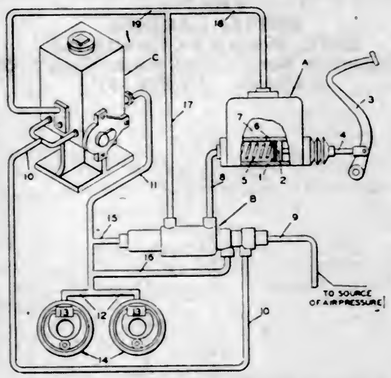
2,405,758
CARBINE
Frederick W. Sampson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 5, 1942, Serial No. 453,633
1 Claim. (Cl. 42—72)

A carbine comprising in combination; a fore stock, a pistol grip, a butt stock foldable through a hinged connection about a vertical axis of said pistol grip to a position contiguous with the side of said stock, a detent device associated with said butt stock and said pistol grip and effective when said butt stock is in fully extended and fully folded positions to effectively lock said stock in either of said positions, said detent including resilient means which may be overcome by pressure on said stock whereby the stock can be changed from one of said extreme positions to the other, a butt plate pivotally attached to said butt stock, and a second resilient means for holding said plate in a position perpendicular to the plane of



said stock when the stock is in extended position, said resilient means included in said detent being of greater strength than the resilient means included in said butt plate whereby when the butt stock is in folded position the butt plate is pivoted against the action of its resilient means into a plane parallel to the plane of the butt stock and is held in said position through the action of the resilient means associated with said detent.

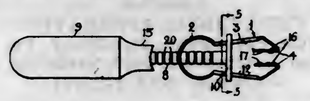
2,405,759
COMBINED AIR HYDRAULIC PRESSURE ACTUATING SYSTEM
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application December 3, 1942, Serial No. 467,743
3 Claims. (Cl. 60—52)



1. In a fluid pressure actuating system, a fluid motor, a manually-operated pressure developing means, a hydraulic pressure developing pump having its outlet connected to the motor, check valve means associated with the outlet and preventing return of liquid to the pump, a source of air pressure, means for operating the pump by the air pressure, valve means for connecting the source to the means for operating the pump to thereby cause pump developed hydraulic pressure to be effective in the motor, means operable by the manually-developed hydraulic pressure for opening the valve means, means for closing the valve means by hydraulic pressure developed by the pump, a release valve, and means for controlling the closing and opening of the release valve by the manually-developed hydraulic pressure.

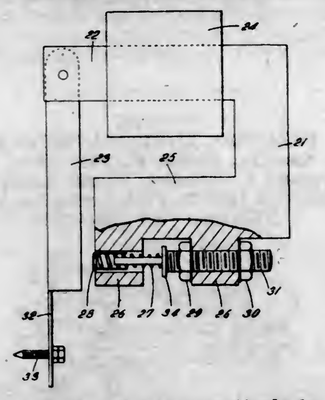
2,405,760
FISH-SCALING CLAMP
William P. Shaks, Woodside, N. Y.
Application July 18, 1944, Serial No. 545,503
2 Claims. (Cl. 81—43)

1. A fish scaling clamp comprising a U-shaped member made of a resilient sheet material and having a relatively wide bight, the ends of the legs of the U-shaped member being bent inwards to form substantially parallel clamping portions, the sides of the legs diverging outwards; a slider between the legs having hook-shaped corner portions engaging the edges of the legs; a



rod-like member extending from the slider and passing through a hole in the bight; and a handle at the outer end of the rod-like member, the rod-like member having annular indentations for engaging the edges of the hole in the bight of the U-shaped member, thereby locking the legs of said U-shaped member in a desired position.

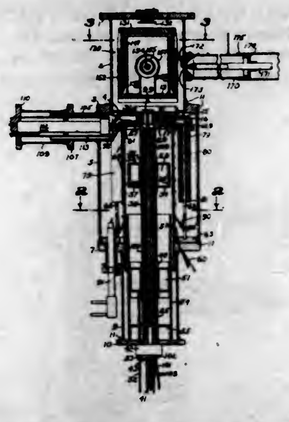
2,405,761
ELECTROMAGNETIC VIBRATOR
Walter Stewart Simmie, Headington, Oxford, England
Application October 30, 1944, Serial No. 561,106
In Great Britain November 11, 1943
1 Claim. (Cl. 314—39)



Electromagnetic vibrator, particularly for use in connection with welding electrodes, comprising a U-shaped core, a coil for energizing said core, an armature pivoted to one leg of said core, a non-magnetic spring pressed plunger housed within the other leg of said core and adapted to bear against said armature once it is attracted by said other leg of the core, on energization of said coil, means for adjusting the spring tension on said plunger, a vibration transfer means mounted on said armature at a right angle thereto whereby to vibrate transversely a welding electrode extending parallel to said armature, and means for adjusting said vibration transfer means to vary the transverse thrust of the armature against the welding electrode.

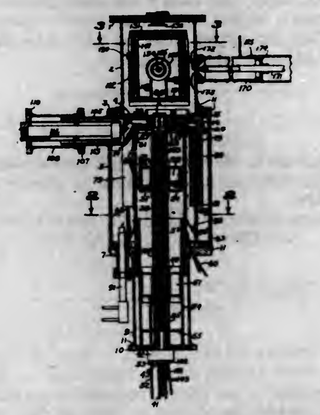
2,405,762
STRUCTURE FOR SUPPORTING FILAMENTS IN VACUUM TUBES
David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Original application November 4, 1940, Serial No. 364,284. Divided and this application June 9, 1941, Serial No. 397,234
24 Claims. (Cl. 250—27.5)

1. A vacuum tube comprising cathodes of filamentary form, a support for said cathodes comprising a pair of coaxial columns, a support ring mounted on adjacent ends of each of said columns, said rings being positioned in adjacent parallel planes, said filamentary cathodes extending between said rings substantially parallel with the axes of said columns, and means comprising a



plurality of radially positioned insulated pins seated in depressions formed in the respective columns and extending between said columns centering the inner of said columns while permitting relative axial movement thereof to accommodate expansion of said cathodes.

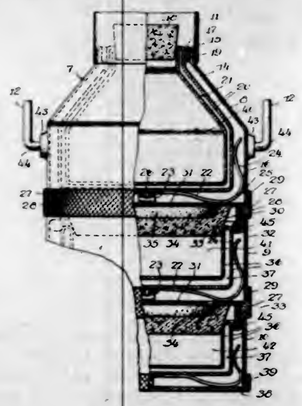
2,405,763
VACUUM TUBE UTILIZING CAVITY RESONATORS
David H. Sloan, Berkeley, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
Original application November 4, 1940, Serial No. 364,284. Divided and this application June 9, 1941, Serial No. 397,236
11 Claims. (Cl. 315—5)



1. An electronic tube comprising a pair of cavity resonators each having inner and outer members, each of said outer members terminating in an apertured grid structure effectively connected to the outer member of its respective resonator as regards radio-frequency potentials, the apertures of said grids being in registry to permit passage of an electron stream through both, an anode mounted within one of said resonators

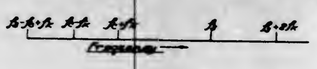
on the inner member thereof and in position to receive said stream, a cathode mounted within the other resonator on the inner member thereof and in position to initiate said stream.

2,405,764
SECTIONAL THERMOS FOOD CONTAINER
Edgar C. Smith, Chicago, Ill.
Application August 22, 1945, Serial No. 612,093
1 Claim. (Cl. 206—4)



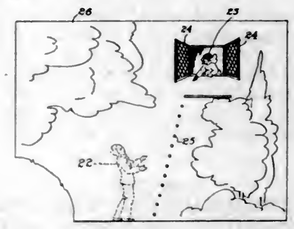
A thermal container for edibles comprising, a thermally controlled liquid retaining section, at least one thermally controlled non-liquid retaining section, an adapter element removably securing the said sections, a cap element secured removably to the bottom of the said non-liquid retaining section, each of the said sections being equipped with dual-walled vacuum containers therein, cork seal means removably secured to the tops of the openings of said containers, and resilient support means and lateral cushioning means secured intermediately the said dual-walled vacuum containers and the outer shells of said sections, the said cork seal means secured to the mouth of the said non-liquid retaining section having its upper portion recessed to accommodate eating implements.

2,405,765
RADIO REPEATER
J. Ernest Smith, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 12, 1942, Serial No. 430,527
30 Claims. (Cl. 250—15)



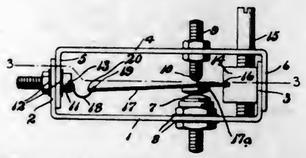
1. In a radio relay system, a station including receiving and transmitting antennae, a low frequency oscillator of high frequency stability, another oscillator, modulator means for so combining the output of said oscillators that sum and difference frequencies are generated, a first converter means for mixing one of said frequencies with incoming high frequency energy from said receiving antenna for obtaining a low intermediate frequency, means for amplifying said intermediate frequency, a second converter means for mixing the other of said sum and difference frequencies with said amplified intermediate frequency to obtain output energy at a high frequency adjacent the frequency of said incoming energy and means for applying said output energy to said transmitting antenna for radiation.

2,405,766
THEATRICAL APPARATUS
Walter R. Spohn, Pittsburgh, Pa.
Application November 2, 1942, Serial No. 464,312
5 Claims. (Cl. 272—9)



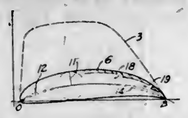
4. Theatrical apparatus comprising a motion picture screen having an opening therethrough, means concealing said opening and constituting a part of the projection-receiving area, and means operable from the rear of the screen for moving said concealing means and an object associated therewith which is visible at the front of the screen.

2,405,767
ELECTRIC THERMAL SWITCH
Earl E. Sprague, Grand Rapids, Mich., assignor to Raymond J. Scheffler, Grand Rapids, Mich.
Application July 20, 1944, Serial No. 545,790
2 Claims. (Cl. 200—139)



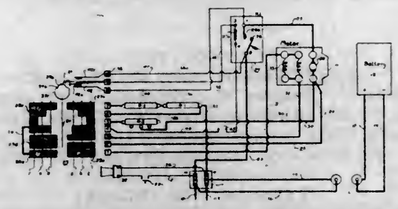
2. A support comprising two U-shaped members of flat metal having parallel upper and lower sides and having legs overlapping each other to provide ends for the support, a binding post connected at one end of said support and insulated therefrom, an adjusting screw passing through one side of the support and having a rotatable connection to the opposite side, a block of insulating material through which the adjusting screw passes, the head of the binding post at its inner side and the inner side of said block having horizontal grooves therein, a bimetallic element having one end received in the groove of said block, a spring having one end received in the groove of the binding post head and provided with a notch in its opposite end to provide spaced ears one at each side of the notch, said bimetallic element at its adjacent end having portions cut away at each side to form a tongue received between said ears, a second binding post secured to the lower side of the support and insulated therefrom adjacent the end of the support at which the block is mounted, a contact carried by the bimetallic element over the head of the second binding post, a screw adjustably mounted on and extending through the upper side of the support in vertical alinement with the second binding post, and a member of insulating material connected to the inner end of the screw.

2,405,768
AXIAL BLOWER
Edward A. Stalker, Bay City, Mich.
Application June 11, 1943, Serial No. 490,419
12 Claims. (Cl. 230—122)



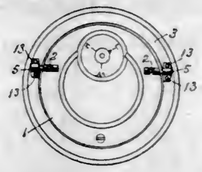
1. In an axial flow blower, an enclosing casing, a blade having a basic airfoil section whose maximum thickness lies between stations at 40 per cent and 60 per cent of the chord length from the leading edge and whose upper contour ahead of the maximum thickness ordinate lies in major part within boundary curves whose mean curve is an elliptic quadrant passing through the nose point of the section and the end point of the said maximum thickness ordinate, said maximum thickness ordinate serving as the minor semi-axis of said quadrant, the outer curve of said boundary curves being an auxiliary elliptic quadrant passing through said nose point and the end of an auxiliary minor semi-axis at the 0.3 point of the chord and extending on to the outer end of said maximum thickness ordinate, said auxiliary minor semi-axis being equal to one-half the said maximum thickness of the said airfoil section, and means to mount said blade within said casing to induce a flow therethrough.

2,405,769
CONTROLLER
Frank Stoner, Lakewood, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio
Application May 27, 1944, Serial No. 537,653
3 Claims. (Cl. 172—179)



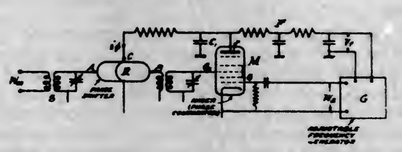
3. In controlling means for a motor circuit, the combination with a motor, a controller and a source of current supply, of a circuit for the motor connected to said source of supply, and controlling means for said motor circuit comprising a closing circuit, a holding circuit and a contactor consisting of stationary and movable contacts in one lead of said motor circuit in normally disengaged relation and arranged to close and open it and an electro-magnet for operating said movable contact in one direction, said closing and holding circuits consisting of a lead in which the coil of said magnet is series connected, a lead for said closing circuit connected to said movable contact and a lead for said holding circuit connected to said stationary contact, a switch normally connected to said lead for said holding circuit and arranged to be connected to the lead for said closing circuit and a device fixed to the shaft for said controller operable to disengage said switch from the lead for said holding circuit and move it into engagement with the lead for said closing circuit upon movement of the controller to its first speed position and to disengage said switch from the lead for said closing circuit and move it into engagement with the lead for said holding circuit upon movement of said controller to a higher speed position, the operation of said electro-magnet to operate said movable contact being dependent on the dwell of the controller at the first speed position.

2,405,770
PIVOTAL MOUNTING FOR DAMPER PLATES
Richard A. Walker, St. Joseph, Mo.
Application April 18, 1945, Serial No. 588,964
2 Claims. (Cl. 236—45)



1. In a pivotal mounting for a damper plate having two horizontal axially alined pintles fastened thereto and projecting respectively from opposite edges thereof, in combination, a supporting ring plate in which the damper plate is operatively disposed, said ring plate having in the horizontal plane of said pintles two depressions having their concave sides respectively opposite to and facing the sides of said pintles, and two bearing members each fastened to a side of said ring plate, each member having a depression with its concave side opposite to and facing the side of the adjacent one of said pintles, and having each an inner wall and an outer wall extending transversely across the axis of said pintles, said pairs of walls extending respectively into said ring plate depressions and forming therewith two enclosing housings, each of said inner walls having therethrough an axial hole, said pintles extending through and pivoted respectively in said holes and having their outer ends adapted to bear respectively against the inner sides of said outer walls for holding the periphery of the damper plate from contact with said ring plate.

2,405,771
METHOD OF SYNCHRONIZING A PLURALITY OF OSCILLATIONS
Marc Ziegler, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 11, 1942, Serial No. 450,584
5 Claims. (Cl. 250—36)



1. The method of synchronizing an adjustable wave with a master wave having an initial phase difference with respect to the adjustable wave, comprising the steps of shifting the phase of one of said waves to produce a shrinkage of the phase difference between the waves, mixing the phase shifted wave and the other wave to produce an electrical potential substantially proportional to said shrunk phase difference, varying the fre-

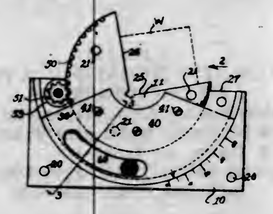
quency of said adjustable wave proportional to said electrical potential, and simultaneously controlling the amount of phase shift impressed on the phase shifted wave proportional to said electrical potential to thereby synchronize the said adjustable wave with said master wave and to maintain the phase difference between said waves at a value less than $\pi/2$ and proportional to the initial phase difference.

2,405,772
CHUCK ASSEMBLY
Charles R. Adams and Carleton B. Clark, Keene, N. H., assignors to Kingsbury Machine Tool Corporation, Keene, N. H., a corporation of New Hampshire
Application July 31, 1944, Serial No. 547,362
10 Claims. (Cl. 10—135)



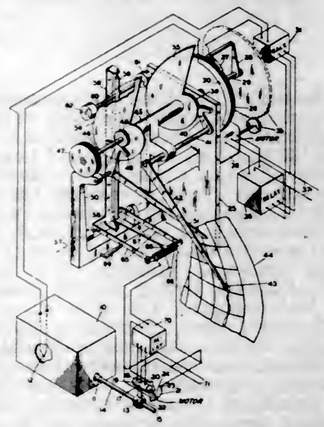
2. A chuck assembly comprising a casing, a round pin slidable along and rotatable about a transverse axis in said casing, a tool holding collet axially slidable in said casing and having a slot through which the pin passes when the parts are assembled, and a spring positioned between the collet and pin in assembled condition whereby to force the bushing forwardly, said pin being notched for receiving the rear end of the spring whereby the spring acts in assembled condition to prevent sliding of the pin and to impose resistance against accidental rotation of the pin.

2,405,773
MAGNETIC FIXTURE
John H. Barrett, Hudson, Mass., assignor to The La Pointe Machine Tool Company, Hudson, Mass., a corporation of Maine
Application December 9, 1943, Serial No. 513,599
2 Claims. (Cl. 175—367)



1. A work holding fixture comprising a base and a work support, each formed of a plurality of axially adjacent and axially alternated magnetic and non-magnetic plates, each plate having a work holding and angularly recessed edge portion and a segmental circular edge bearing portion and said plates being secured in a longitudinally extended assembled structure, said base and support having coacting concave and convex cylindrical surfaces, said support having end plates with segmental locking ribs and said base having segmental grooves to receive said ribs, whereby said base and support are continuously maintained in assembled sliding relation, and additional means to secure said support to said base in any selected angular position.

2,405,774
CONTROL APPARATUS
Clinton A. Blakeslee, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application January 11, 1944, Serial No. 517,808
19 Claims. (Cl. 172—239)



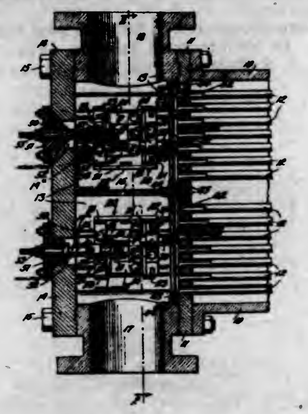
1. In a device for controlling the magnitude of a variable, a measuring instrument sensitive to changes in said variable, a cam, means controlled by said instrument for positioning said cam in accordance with said magnitude, a second cam, means for positioning said second cam in accordance with a desired magnitude, differential means cooperating with said cams and operable thereby into positions corresponding to differences between the settings of said cams, and means controlled by said differential means for affecting the magnitude of said variable.

2,405,775
INSECTICIDE AND FUNGICIDE
William E. Bradley, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application June 8, 1942, Serial No. 446,273
7 Claims. (Cl. 167—28)

1. A process for the treatment of areas infested with fungus and insects, which comprises spraying said areas with a material comprising a substantially pure isoparaffinic oil boiling in the range of about 350° F. to about 800° F.

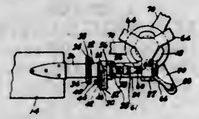
2,405,776
ANODE FOR THE ELECTROLYTIC PROTECTION OF CLOSED CONTAINERS
Bengt G. Brolinson, New York, N. Y.
Application August 1, 1940, Serial No. 349,126
1 Claim. (Cl. 204—196)

An anode for the electrolytic protection of a container having a water head provided with a housing forming peripheral walls and with a cover adapted to be secured to said housing, said anode comprising a cage structure having a contour conforming in general to the contour of said walls, a pair of insulating members attached to said cover and extending transversely into said head, means attaching said cage to said insulating members whereby said cage is entirely supported by said cover and may be removed therewith, a cross member connecting the free ends of said insulating members, a fixed supporting rod attached to said housing, said rod having means engaging said cross member when said cover and anode are in assembled position



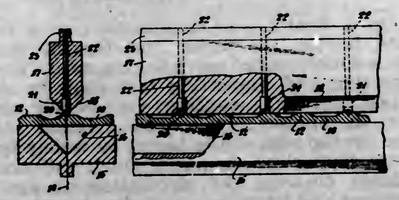
to impart rigidity to said structure, said cross member being slidable into or out of engagement with said last means as said head is assembled or removed.

2,405,777
FOLDABLE ROTOR
Michel D. Buivid, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 31, 1943, Serial No. 481,254
4 Claims. (Cl. 170—164)



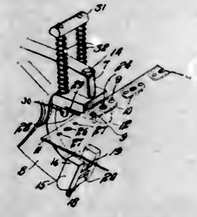
1. In combination with a rotor blade, a drag hinge fixed against rotation about an axis normal to the axis of said hinge, a pivotal mounting for supporting said blade for pitch changing movements, a pitch changing means having a limited movement, means positively connecting said blade to said pitch changing means, means for disabling said connecting means, and folding hinge means between said pivotal mounting and said blade for folding said blade relative to said mounting, and means for locking said folding hinge means.

2,405,778
DIE STRUCTURE FOR BENDING SHEET METAL
Francis Crawford, Scarsdale, N. Y.
Application December 8, 1943, Serial No. 513,331
10 Claims. (Cl. 153—21)



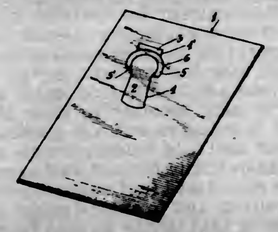
1. Dies for bending sheet metal of a certain minimum over-all thickness, and the like, comprising, in combination, a female die having an elongated V-shaped groove in its face, a male die comprising a substantially solid relatively unyielding body having a complementary elongated V-shaped ridge to cooperate with the groove, and a plurality of localized prick-punches projecting a relatively short distance from and beyond all portions of the edge of said V-shaped ridge and substantially less than the mentioned minimum thickness of the sheet metal to be bent to pierce into a surface of the sheet metal without perforating it to hold it securely in predetermined position as the dies are brought together to assure accurate location of a bend, those portions of the surface of said ridge intervening said projecting prick-punches being substantially uninterrupted and backed by solid male die body material.

2,405,779
TOOL FOR INSTALLING NUT PLATES OR THE LIKE
Jack Davis, El Dorado, Kans.
Application May 17, 1944, Serial No. 536,045
8 Claims. (Cl. 78—49)



1. A tool of the character disclosed, comprising companion fastener closing elements, a nut plate support disposed between said elements and having a socket to receive the screw flange of a nut plate and a positioning pin extending up through said socket to serve as a "feeler" for locating a supported nut plate in respect to the skin or other structure to which the nut plate is to be attached, means for projecting said support beyond said fastener closing elements, said projecting means being yieldable to enable retraction of a supported nut plate into position between said fastener closing elements and means for effecting motion of said support away from one of the closing elements to enable clearance of said "feeler" from the screw flange of an attached nut plate.

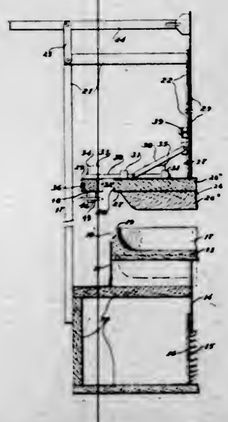
2,405,780
DISPLAY HOLDER
Joseph Carroll Feeney, Woodstock, and William Bradford Banks, Baltimore, Md., assignors to The Lord Baltimore Press, Baltimore, Md., a corporation of Maryland
Application December 26, 1942, Serial No. 470,276
2 Claims. (Cl. 206—79)



1. In an article of the class described, the combination of a sheet-like base having an elongated

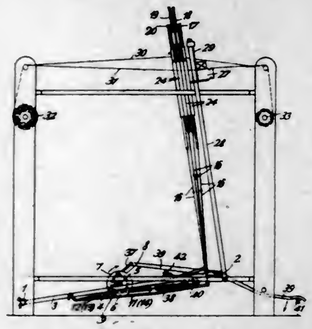
aperture therein, an article in said aperture, the length of said aperture being substantially equal to the length of the article and the width of the aperture being less than the maximum width of the article to support the article resting therein and a loop integral with said base at the sides of the aperture adapted to be bent outwardly in a plane substantially at right angles to the base and adapted to extend over the article in the aperture to hold it in position therein.

2,405,781
PIECRUST OR LIKE FORMER
Wendall M. Fletcher, Portland, Maine
Application April 7, 1945, Serial No. 587,084
12 Claims. (Cl. 107—15)



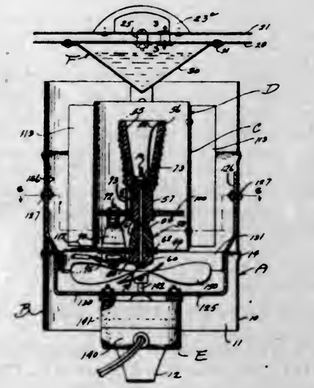
1. Apparatus for shaping moldable material disposed over a device as an upstanding wall adjacent the margin of the device, said apparatus comprising a base, an annular receiver on said base of a diameter to receive the device, a support resiliently mounted in said receiver to have a normal position protruding from said receiver to support the device with the margins of the material hanging downwardly over the outside of said receiver, forming means reciprocably mounted on said base for movement into and out of engagement with the device on said support to seat said support in said receiver below its upper edge whereby the material draped over said receiver is raised relative to the device to partially form the wanted wall, said forming means comprising a member of substantially the size and shape of said device, the periphery of said member constituting a first wall-shaping surface, a plurality of elements having inner edges constituting second wall-shaping surfaces and being supported by said member for radial movement into and out of abutment with each other to bring said shaping surfaces into operative relation to each other, a knife section carried by each of said elements below its lower edge, means to hold said elements in an inoperative position relative to each other and to said member, resilient means urging said elements into abutment, said knife sections engaging with said receiver to trim the material when said forming means are positioned to seat said support and said holding means are released to raise said partially formed wall as said forming means are raised and said support returned to its normal position, and to extend under and support the margin of said device as said forming means completes said wall and said forming means are moved out of contact with said support.

2,405,782
HEALD SHAFT MOTION FOR HAND LOOMS
Peter Florjancic and Emil Boral, Zurich, Switzerland, assignors to Max Bucher, Zurich, Switzerland
Application December 7, 1944, Serial No. 567,058
In Switzerland July 26, 1943
5 Claims. (Cl. 139—32)



1. In a heald drive means for hand looms, a common cam shaft having a plurality of heald controlling cams mounted thereon, a plurality of heald shafts each corresponding to one of the cams respectively, a single pedal, means connecting the pedal with the cam shaft for operating the cam shaft always in the same direction, and a spring connected with the shaft operating means so as to be stressed by the actuation of the pedal.

2,405,783
ELECTRIC HEATER
Allen J. Gardenhour, Waynesboro, Pa.
Application February 27, 1943, Serial No. 477,419
12 Claims. (Cl. 219—39)



1. In a heater, the combination of a heater casing having the upper end thereof entirely open, a double walled cover having means directly connecting and supporting said walls in spaced relation, means mounting the double walled cover in appreciably spaced relation wholly above the top edge of the casing by widely spaced narrow supporting members which will not appreciably obstruct the circulation of air thru the casing and laterally outwardly thru the space between the cover and top of the casing, and handle means on the top wall of the cover.

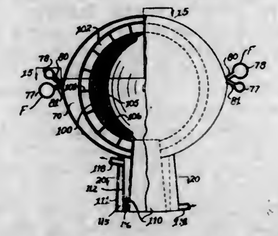
2,405,784
DERIVATIVES OF CHLORMETHYL ETHERS OF POLYOXYETHYLENE GLYCOLS AND PROCESS OF PRODUCING SAME
Daniel Geltner, Astoria, N. Y., assignor to Onyx Oil & Chemical Company, a corporation of Delaware
No Drawing. Application April 24, 1942, Serial No. 440,397
9 Claims. (Cl. 260—404)

6. Compositions of the formula:

$$RXCH_2OZOY$$

in which R is a group having a hydrocarbon radical with 6 to 20 carbon atoms, X is a functional radical, Z represents a polyoxy ethylene radical and Y represents a radical selected from the group of hydrogen and the radicals represented by $RXCH_2$.

2,405,785
COMBUSTION CHAMBER
Robert H. Goddard, Annapolis, Md.; Esther C. Goddard, executrix of said Robert H. Goddard, deceased, assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application March 14, 1944, Serial No. 526,422
17 Claims. (Cl. 60—44)

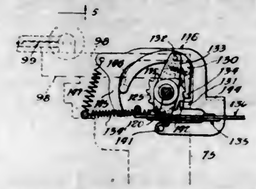


3. In a combustion chamber, an outer recessed wall portion for liquid oxygen, an inwardly adjacent recessed wall portion for liquid fuel, means to feed said liquids inward from said recessed portions, a channeled and porous wall within said recessed portion and in which said liquids are intermingled, and a lining within said porous wall having passages through which the mixed liquids are delivered to the combustion chamber.

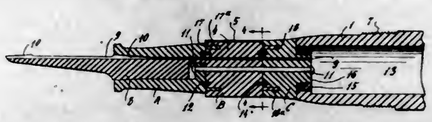
13. In a combustion chamber, a casing comprising a plurality of circumferentially-assembled lune-shaped elements each having separate compartments to receive liquid fuel and liquid oxygen respectively.

2,405,786
PRINTING MACHINE
Walter T. Gollwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application May 31, 1938, Serial No. 210,897, now Patent No. 2,265,229, dated December 9, 1941. Divided and this application May 31, 1943, Serial No. 489,112
4 Claims. (Cl. 197—124)

4. In a machine of the character described wherein a work supporting cross slide is mounted on a carriage for line spacing movement, a rack formed on said cross slide and a pinion on said carriage for advancing said cross slide, spring means acting to retract said cross slide, means for advancing said cross slide or releasing the same for retraction comprising a ratchet wheel fixed to rotate with said pinion, a control pawl normally urged into engagement with said ratchet wheel to prevent retraction of the cross slide and releasable therefrom to permit retraction, an advancing pawl normally urged to engage said ratchet, means for shifting said advancing pawl from an initial position to advance said carriage, means to return said advancing pawl to said initial position, and means operated by said control pawl in its releasing movement to release said advancing pawl from said ratchet wheel.

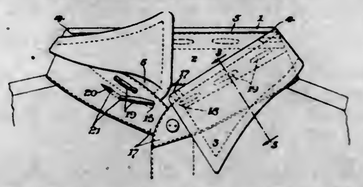


2,405,787
LEAK-PROOF FOUNTAIN PEN
Bernard Grafton, Brooklyn, N. Y.
Application August 4, 1944, Serial No. 548,049
1 Claim. (Cl. 120—48)



In a fountain pen, having three parts, said parts having a channel therethrough for the ink flow; a rivet passing through and holding together the parts in superposed relation; a center portion adapted to be rotated to open or close the valve around the rivet; said rivet holding together three divisions of the pen; turning the center portion by 120 degrees being sufficient to operate the valve; each of the three parts having a channel and the channels registering in one position of the part B and when part B is rotated, its channel going out of registry with the channel in each of the other two parts; a cap covering the pen which has three projections therein which extend into grooves of the center cylinder; said cap engaging the center portion and closing or opening the valve as the cap is screwed on or off respectively.

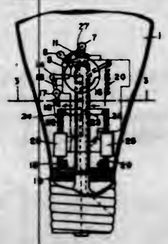
2,405,788
SHIRT COLLAR
Heinz Henschel, Johannesburg, Transvaal, Union of South Africa, assignor of one-half to Heinz Bernhard Hammerschlag, Johannesburg, Transvaal, Union of South Africa
Application February 8, 1945, Serial No. 576,729
In the Union of South Africa March 21, 1944
2 Claims. (Cl. 2—139)



1. A shirt having a turndown collar, said collar made in two parts the inner or upstanding part of the collar permanently attached to the shirt and having its upper edge divided into outside

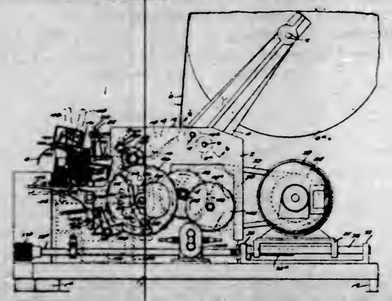
and inside portions the outside portion having regularly placed lace holes, the turn-down part of the collar folded at its upper edge, said inside turned down edge adapted to fit between the divided upper portions of the upstanding part of the collar, lace holes in the folded edge of the collar spaced to correspond with the holes in the outside portion of the upstanding part, and means for removably securing the turned down edge of the collar to the divided upper portion of the upstanding part by a lace passed through the lace holes.

2,405,789
MULTIFILAMENT LAMP
John H. Homrighous, Oak Park, Ill.
Original application August 22, 1942, Serial No. 455,747. Divided and this application November 1, 1943, Serial No. 508,453
13 Claims. (Cl. 315—65)



1. In an electric lamp, a pair of filaments, a current supply circuit, spring controlled rotatable mechanism for supporting said filaments, said mechanism arranged to connect any one of said filaments in predetermined position to said current supply circuit, a fusable element for holding said mechanism under tension of said spring to maintain one of said filaments in said position, an automatic switch comprising a pair of spaced bimetallic contact members adapted to be actuated into contact to connect said element to said supply circuit, and means for closing said contact member responsive to the disruption of the connected filament to open said link thereby releasing said mechanism to rotate another one of said filaments to said predetermined position, and to connect said other filament to the said current supply circuit.

2,405,790
STRIP SERVING MACHINE
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages Incorporated, a corporation of New York
Application August 30, 1941, Serial No. 408,938
37 Claims. (Cl. 91—14.5)



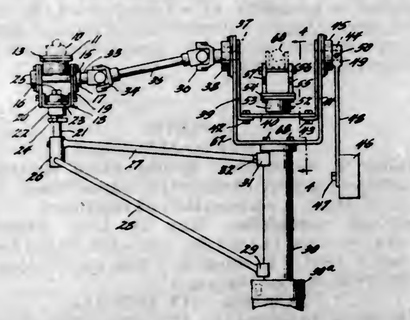
9. A gummed strip delivering machine including intermittently acting feeding means, means to sever predetermined lengths of strip, means to moisten the strips, means to support the moistened fed strips to condition the gum thereof and means operable by removal of a moistened fed strip to initiate the feed of a further strip.

2,405,791
WIG CONSTRUCTION
Hilaire J. Lamoureux, New York, N. Y.
Application May 15, 1945, Serial No. 593,889
10 Claims. (Cl. 46—172)



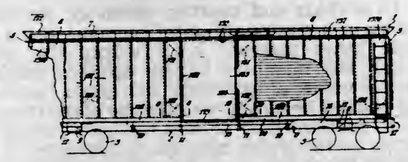
1. The method of constructing a wig for a head model, comprising the steps of passing a plurality of hairs through each of a row of apertures in a stiff, mesh-like backing fabric, cutting off the hairs passing through the fabric on the reverse side thereof at a level adjacent thereto, flowing onto and around the cut ends of the hairs and into the meshes of the fabric through which they pass a water-proof cement, drying the cement while all the hair secured thereto is retained in substantially parallel lines at an acute angle to the plane of the fabric, repeating the series of steps aforesaid to provide a predetermined area of the fabric having hair secured thereto, all of which flows in a single direction in respect to the fabric, cutting the portion of the fabric to which hair is attached as aforesaid into pieces of selected size and shape, and adhesively securing such pieces to the head of a model to form a wig in such manner that the direction of flow of the hair from the several portions of the wig will simulate the way hair grows and flows on a living person and so that the stiffness of the fabric will not interfere substantially to the conforming of the individual pieces to the curvature of the head to which they are attached.

2,405,792
GUN MOUNTING
George H. Lazarus, Jr., and Jess F. Bewley, Bowling Green, Ky.
Application February 11, 1942, Serial No. 430,452
10 Claims. (Cl. 89—37)



1. In a gun assembly, a pointing piece, a gun, primary means for supporting said gun for free pivotal movement in an horizontal plane, a second means for suspendedly supporting said gun in a vertical plane for substantially frictionless movement comprising a plurality of anti-friction bearings, a pair of pivots rotatably mounted therein, an offset supporting member for said bearing and pivots, a cradle pivotally mounted on said pivots, said cradle including a pair of arms extending downwardly from said pivots, an horizontal supporting base connecting the lower ends of said arms, a gun mount rotatably mounted on said supporting base, a support for said pointing piece disposed laterally of said primary support means, anti-friction bearings mounted on said lateral support means, pointing-piece pivots supported on anti-friction bearings, said pointing-piece suspendedly mounted on said pivots for substantially frictionless movement, and means for connecting said gun and said pointing-piece whereby sighting movement of said pointing-piece will simultaneously move said gun.

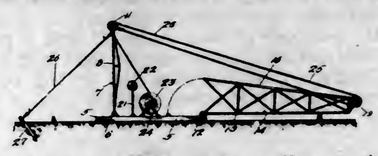
2,405,793
METHOD OF MAKING RAILWAY CAR BODIES
Alfred C. Lohse, Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Original application February 28, 1941, Serial No. 381,152. Divided and this application September 11, 1941, Serial No. 410,477
5 Claims. (Cl. 29—164)



1. The method of fabricating a railway car side wall having a side frame covered by sheathing so as to produce a car side wall that includes a car side sill, a car side plate, spaced upright posts, intermediate side posts, and sheathing all interconnected to form a rigid wall structure, the side sill and side plate being at least coextensive in length with the sheathing, the spaced upright posts rigidly connecting the said side sill and side plate, and the side posts being disposed between the upright posts and being rigidly secured to the side plate and side sill, comprising providing sheathing with a plurality of car side posts integral with the sheathing in the region between the ends of the sheathing, then while maintaining one end thereof substantially fixed at least with respect to one of the upright posts, tensioning the sheathing so as to apply a substantially uniform tension throughout the length thereof to substantially remove wrinkles and buckles, and while holding the sheathing in this tensioned condition securing the sheathing rigidly to the side sill and the side plate substantially throughout the length of the sheathing and rigidly fastening the upper and lower ends of the side posts to the side plate and side sill, respectively, and other upright post.

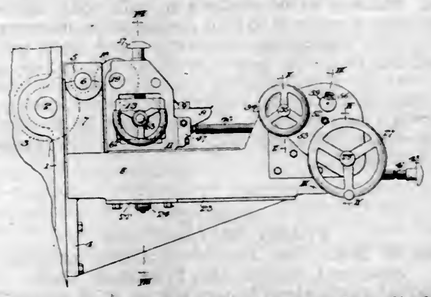
2,405,794
PORTABLE DERRICK
Glenn L. Loomis, McAllen, Tex.
Application July 11, 1945, Serial No. 604,365
2 Claims. (Cl. 189—15)

1. Means for erecting a derrick as a unitary structure and comprising a foundation, means for pivotally attaching the lower end of the derrick to the foundation while the derrick is in a horizontal position, an auxiliary mast pivoted at one end to the foundation for movement from a horizontal to a vertical position, said derrick and said mast having pulleys at the upper ends thereof, a post rising from the foundation between the derrick and the mast, a pulley journaled on the upper end of the post, a hoisting drum rotatably mounted on the foundation, a cable connected to the drum for winding thereon,



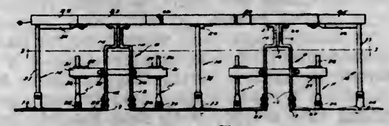
said cable extending over the pulley carried by the post, around the pulleys carried by the mast and the derrick, and returned to the upper end of the mast for attaching thereto, said cable and drum being adapted to successively raise the mast and the derrick.

2,405,795
ROTARY PRINTING PRESS
Hans J. Luehrs, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application February 5, 1943, Serial No. 474,785
29 Claims. (Cl. 101—247)



1. Impression, form and ink supply cylinders, and means for simultaneously moving the form and ink supply cylinders relatively to the impression cylinder and to each other, comprising two hand shafts operatively connected to their respective form and ink supply cylinders and means operably connecting the two hand shafts whereby the turning of one hand shaft will cause the turning of the other hand shaft.

2,405,796
EARTH WORKING AND CULTIVATING MACHINE
Harmon D. May, Jayton, Tex.
Application August 23, 1944, Serial No. 550,751
2 Claims. (Cl. 97—170)



1. In a ground-working and cultivating machine of the class described, a carriage for a frame structure, said carriage comprising a pair of horizontal, spaced, parallel, ground-engaging runners, an arch vertically arranged and formed integral with the forward end of said runners, integral uprights at the rear ends of said runners, vertically elevated, horizontally disposed adapter arms secured at their outer, forward ends to portions of the arch and at their rear, intermediate

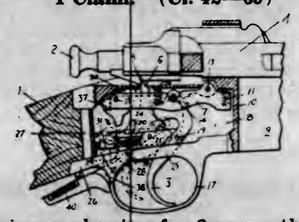
portions to the upper ends of said uprights, the rear ends of said adapter arms diverging rearwardly and outwardly beyond the lines of draft of the uprights, a pair of blades, these being disposed in diverging relation on opposite sides of the carriage and having connection with the frontal portions of said runners, and a pair of plow feet having vertical hanger rods, said hanger rods being adjustably attached to the rear diverging ends of said adapter arms.

2,405,797
SOAPSTONE HOLDER
Alvin A. Plut, Ponca City, Okla.
Application February 21, 1944, Serial No. 523,377
1 Claim. (Cl. 120—13)



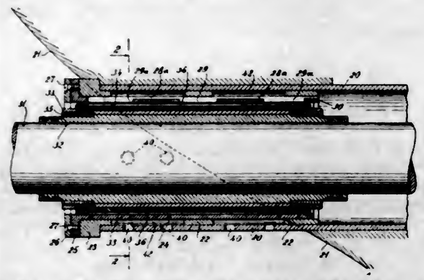
In a holder for a soap-stone, a casing, rectangular in cross-sectional configuration and having an open end through which said soap-stone is adapted to project, and a slot in one side thereof, a leaf spring positioned adjacent said slot within said casing, a flange formed at one end of said spring inwardly turned with respect to said casing, adapted to be secured in said soap-stone, a projection secured to said spring at an intermediate point extending outwardly from said casing through said slot, and a knob at the end of said projection of a diameter greater than the width of said slot whereby movement of said knob acts through said spring and said flange to move said soap-stone inwardly and outwardly with respect to said casing.

2,405,798
FIRING MECHANISM
John G. Seitz, San Francisco, Calif., assignor to Samuel I. Keene, San Francisco, Calif.
Original application November 28, 1939, Serial No. 306,481. Divided and this application May 6, 1944, Serial No. 534,393
1 Claim. (Cl. 42—69)



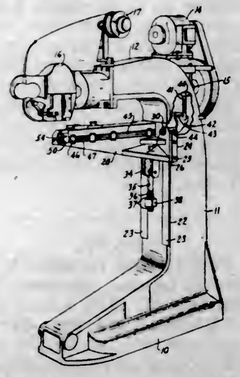
In a firing mechanism for firearms that includes a cocking piece and a holding means therefor for holding it cocked and movable in one direction for releasing the same, a finger retractible trigger, a spring connected with said trigger for being tensioned upon such retraction for causing return movement of said trigger against a predetermined resistance by the trigger finger below that required for retracting said trigger, means connecting said trigger with said holding means for causing said movement of the latter by said spring upon said trigger moving past a predetermined point during its said return movement and for causing an added and abrupt resistance to said return movement immediately prior to movement of said trigger past said point, said cocking piece being released at said point, said last mentioned means including a notched element connected with said trigger for movement therewith, and a member in slidable engagement with said element during said return movement of said trigger and prior to release of said cocking piece and having a shoulder engageable in the notch in said element immediately prior to said movement past said point.

2,405,799
BEARING
Robert D. Smeallie, Teaneck, N. J., assignor to The E. J. Willis Company, New York, N. Y., a corporation of New York
Application May 30, 1945, Serial No. 596,666
15 Claims. (Cl. 308—240)



1. In a shaft and bearing assembly, the combination of a stationary outer member and a rotatable inner member lying within the outer member, the members having opposed working surfaces made of different materials, pressure being applied by one member to the other through arcuate portions only of said surfaces during the rotation of the inner member, a plurality of recesses in the working surface of the inner member, said recesses being spaced inwardly from the ends of said surfaces, and a plurality of passages in said outer member leading to the exterior thereof from the working surface of the outer member, the openings of said passages all lying outside said arcuate portion of the working surface of said member.

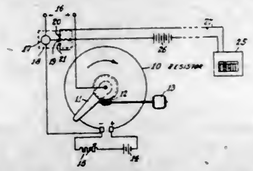
2,405,800
STITCHING MACHINE
William R. Spiller and Robert J. Niederhauser, Dayton, Ohio, assignors, by mesne assignments, to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application May 6, 1943, Serial No. 485,872
12 Claims. (Cl. 1—15)



1. In a stitching machine of the character described having a base, a pedestal, an arm, means for supporting said arm from said pedestal, and a stitcher head also supported from said pedestal and arranged to form and drive a stitch toward said arm with the stitch generally parallel with

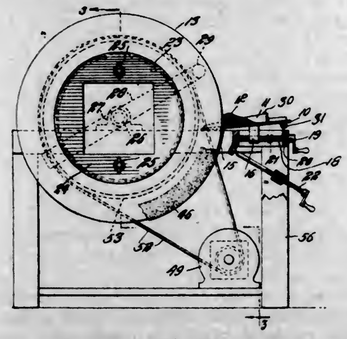
the longitudinal dimension of said arm, the combination of clincher mechanism carried by said arm for effecting the clinching of the legs of the stitch, means for securing said clincher mechanism to said arm in position closely adjacent one side and at the outer end of said arm providing for receiving work material thereon with a lesser clearance from one side thereof than from the other, and means carried on said pedestal and forming a driving connection for effecting the actuation of said clincher mechanism.

2,405,801
TELEMETRIC APPARATUS
Jay N. Swarr, Woodbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application September 1, 1943, Serial No. 500,776
8 Claims. (Cl. 171—95)



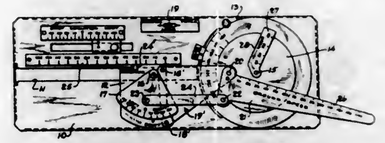
1. In telemetric apparatus, a device for producing successive electrical impulses of durations corresponding to successively attained magnitudes of an electromotive force between two terminals, and comprising an extended potentiometer slide-wire and means for maintaining a constant electrical potential between selected points thereon, a contact continuously and repeatedly scanning said slide-wire whereby the potential between said contact and either of said points is smoothly varied between a first and a second value and returned from said second to said first value, a connection between a point on said slide-wire and one of said terminals, a connection between said contact and the other of said terminals, means in circuit with said connections for producing in each of a series of scanning movements of said contact a continuous signal of a time duration corresponding with the magnitude of said E. M. F. between said terminals, and receiving means responsive to said signals.

2,405,802
TIRE RETREADING
Frederic H. Taber, New Bedford, Mass.
Application October 8, 1943, Serial No. 505,571
3 Claims. (Cl. 18—59)



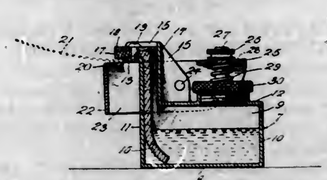
1. The herein disclosed method of retreading a tire, which comprises mounting a tire on a rotatable support, rotating said support and while so rotating, maintaining said tire forcibly in rubbing engagement with a supported body of sticky, cohesive, vulcanizable rubber compound, to build up a layer of such compound on the tire surface, solidifying said forcibly applied sticky material to a firm non-sticky but impressionable condition, impressing desired configuration into the applied coating, while rotating the support and tire and vulcanizing the applied layer with the design impressed therein.

2,405,803
CALCULATOR
Arthur L. Thurston, Wantagh, N. Y., assignor to Cox and Stevens Aircraft Corporation, a corporation
Application August 17, 1945, Serial No. 611,213
6 Claims. (Cl. 235—61.02)



1. In a calculator, a first rotatable member having a fixed axis of rotation, a second rotatable member having an axis of rotation parallel with the axis of rotation of said first rotatable member, the axis of rotation of said second rotatable member being movable across and beyond the periphery of said first rotatable member, and means interconnecting said two rotatable members adapted to impart to one thereof in response to rotational movement of the other like angular movement of like magnitude and sense, regardless of the spatial relationship of the member axes.

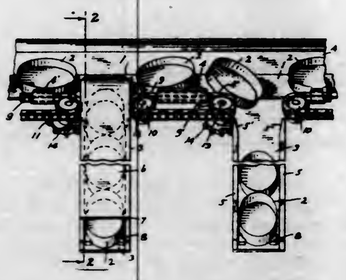
2,405,804
MOISTENING DEVICE FOR GUMMED CIGARETTE PAPERS
George Zint, Wapakoneta, Ohio
Application October 3, 1944, Serial No. 556,972
3 Claims. (Cl. 91—54.4)



1. In a moistening device, a substantially rectangular reservoir to be supported on a table and formed along its entire longitudinal rear wall with an elongated substantially rectangular wick holder projecting above the flat top of the reservoir, a fixed elongated shelf projecting rearwardly from the upper edge of said holder and positioned horizontally below the upper edges of the side and front walls of said holder, a flat rectangular wick extending from said reservoir through said holder and having its upper portion resting on said shelf with its upper end projecting beyond the outer rear edge of said shelf, a rectangular clamping plate positioned between the side and front walls of said holder over the wick portion on said shelf, the rear portion of said plate overlying the said projecting end of said wick, fastening means for securing said plate

to clamp the wick on said shelf, a flat rectangular pressure bar underlying said rearwardly projecting end of the wick and spaced downwardly therefrom to permit insertion of a gummed paper between the two, two parallel levers fixedly secured at one end to the ends of said pressure bar and positioned along the outer sides of said wick holder, a finger bar fixed to the other ends of said levers and overlying the front portion of the top of said reservoir, and means for fulcruming said levers between their ends.

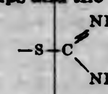
2,405,805
OVAL CAN FEED
John Albertoli, San Francisco, Calif.
Application March 29, 1945, Serial No. 585,484
9 Claims. (Cl. 198—20)



1. In a can feeding apparatus, a traveling conveyor arranged to support oval cans at an incline toward one edge of the conveyor, take-off chutes spaced along the conveyor open at their upper ends to receive cans sliding off of the conveyor, said chutes being of a width to receive the oval cans lengthwise of the oval only, and movable means other than the conveyor wall operating against the oval cans as they are conveyed along turning them about when at a take-off chute so as to slide off of the conveyor endwise into the chute.

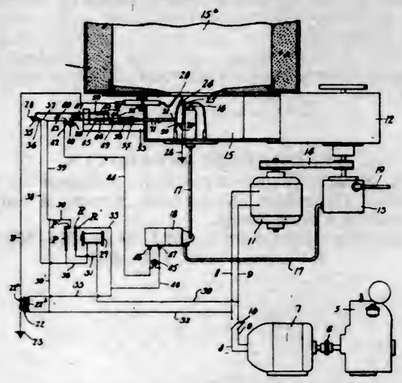
2,405,806
DERIVATIVES OF RESINOUS ETHERS OF HYDROXYARYL COMPOUNDS
Otto Albrecht, Neue-Welt, near Basel, Charles Graenacher, Riehen, Richard Sallmann, Bottmingen, and Carlo Rossi, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application February 2, 1942, Serial No. 429,336. In Switzerland February 7, 1941
14 Claims. (Cl. 260—51)

1. A methylene compound in which a ring carbon atom belonging to an aryl nucleus of a resinous ether of a hydroxyaryl compound with a member selected from the group consisting of cyclic terpene alcohols and cyclic terpene hydrocarbons is connected through a bridge selected from the group consisting of —CH_2— and —CH_2OCH_2— with a water-solubilizing radical selected from the group consisting of quaternary ammonium groups and the



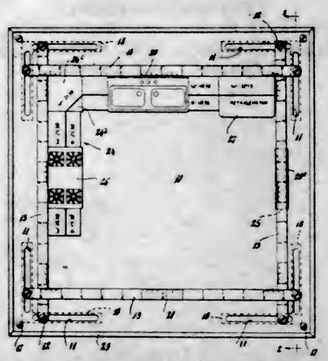
radical in which the basic nitrogen atom is neutralized with one equivalent of an acid.

2,405,807
BURNER CONTROL SYSTEM
Perry Arant, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Application September 24, 1941, Serial No. 412,193
26 Claims. (Cl. 158—28)



1. A fuel burner control system comprising: a burner; valve means for controlling the flow of fuel to said burner; continuously operating means for supplying air to said burner and for supplying fuel under pressure to said valve means; means for igniting said fuel, said igniting means comprising an ignition circuit including a source of high voltage current and a pair of spaced current conducting electrodes, one of said electrodes being connected to said source of high voltage current and the other of said electrodes being grounded and being thermally reactive to change its shape in response to the heat of the spark produced between said electrodes; and means controlled by said thermally responsive electrode operable to cause said fuel flow controlling valve means to permit a flow of fuel to said burner only when said thermally responsive electrode is expanded by the heat of a spark of sufficient intensity to ignite said fuel.

2,405,808
DEMONSTRATION LAYOUT PLANNER
Harry A. Armbright, Lansdowne, Pa.
Application April 17, 1944, Serial No. 531,407
4 Claims. (Cl. 35—7)



1. A device of the character described comprising a platform, two complemental pairs of rail members on said platform, each pair having its individual members disposed substantially at a right-angle to one another and to a complemental member of the other pair, at least one complemental pair of said rail members having its members relatively movable and adjustable to each other while maintaining the substantially right-angular relationship therebetween and having scaled measurements thereon whereby a substantially rectangular space provided by the adjustment of said movable rail members on said platform may be made to correspond to the measurements of a given room, cooperating parts on the platform and on the movable rail members for guiding said rail members in their movements, each of the rail members of the pair of movable rail members consisting of a plurality of spaced superposed elements with the superposed elements of one rail member being interdigitated with the elements of the other rail member, and a plurality of rectangular tiles, dimensioned to the same scale as the rail members and adapted to represent articles of equipment, removably positionable on said platform in engagement with at least one rail member and with one another.

2,405,809
INDICATOR LAMP
Anatole P. Berejkoff, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 1, 1944, Serial No. 566,138
11 Claims. (Cl. 177—329)



1. Indicator lamp comprising a housing having a base and a cap connected thereto, the base having a central bore and a side wall with two pairs of diametrically opposite openings, a plunger with a spring disposed in the base and projecting through the bore, a center contact member with a terminal positioned in one pair of openings and engaging the spring, and a lamp socket disposed in the base and having diametrically opposite projections projecting through the other pair of openings, one of the projections forming a terminal, said socket having another pair of projections for engaging the cap.

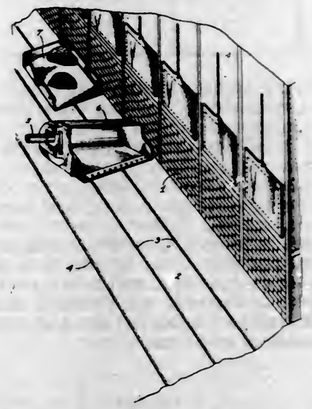
2,405,810
DOCK ROLLER FOR BOATS AND THE LIKE
Bennie L. Berg, Madison, Wis., and Charles E. Watson, La Grange, Ill.; said Watson assignor to said Berg
Application April 18, 1945, Serial No. 589,072
5 Claims. (Cl. 193—42)

1. A device of the character described comprising an elongated member, linearly aligned and spaced rubber rollers journalled for rotation on said elongated member to support the traverse of a boat thereover, said rollers being spaced from each other to permit a boat keel to pass therebe-



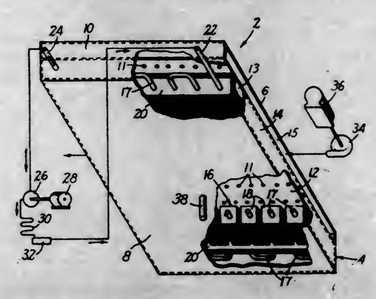
tween, and pivotal means for maintaining said rollers in inclined adjustable relation to each other for supporting flat and curved boat bottoms thereover.

2,405,811
DEVICE FOR CLEANING FLOORS
Edwin A. Beyer, Buffalo, N. Y.
Application June 20, 1945, Serial No. 600,595
6 Claims. (Cl. 214—26)



1. A floor scraping device comprising an open topped box having a bottom, sides and ends, ribs parallel to said ends and projecting outwardly from the bottom and one side of the box, a blade attached to said ribs and bearing on the top edges of said side and the ends of said box, and means at one end of the box for connecting it to the peel of a charging machine.

2,405,812
AIR CONDITIONING
Thomas W. Binder, Maplewood, N. J.
Application May 30, 1944, Serial No. 538,042
15 Claims. (Cl. 62—129)



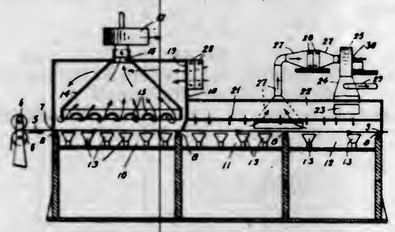
1. In the art of air conditioning, cooling a body of air with the result that the vapor therein is condensed and a low vapor-pressure zone is

created, passing the air to be conditioned along a path adjacent said zone, and independently washing and cleaning the air before it passes said zone.

2,405,813
DRIER

Charles E. Blanchard, Randolph, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.

Application May 6, 1944, Serial No. 534,410
3 Claims. (Cl. 34—68)

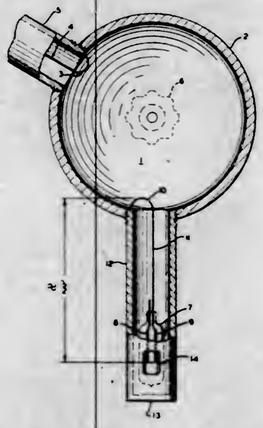


1. A drying system for drying coated tape and the like, comprising a housing containing a plurality of infra-red lamps, means for passing a tape to be dried past said lamps, whereby the heat from said lamps is applied to one side of said tape, a hood converging from its inlet to its outlet, said hood having its inlet opposed to, and spaced from, said lamps, spaced baffles in said inlet, an air heater, means including said housing defining a passage on opposite sides of and into said hood for air from said heater, and a fan connected to said outlet for drawing air through said heater and for withdrawing heated air and vapor from the other side of said tape.

2,405,814
ECHO BOX RESONANCE TESTER

James W. Brannin, Cambridge, Mass., assignor, by mesne assignments, to the Government of the United States of America as represented by the Secretary of the Navy

Application May 16, 1945, Serial No. 594,079
8 Claims. (Cl. 177—311)

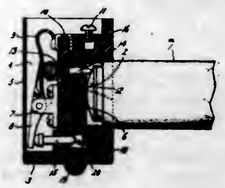


1. A glow tube visual resonance indicating device for use in connection with a tunable cavity resonator comprising a low power glow tube having two electrodes, a tubular metallic shield enclosing said glow tube said shield having one end open and adapted to be conductively attached to the outside wall of a tunable cavity resonator and having the other end closed, and a window in the vicinity of the glow tube, one of the said electrodes floating and the other of said electrodes being extended from the tube along the axis of said shield toward the open end and having a loop at the extremity thereof to be introduced into a cavity resonator for extracting energy therefrom, said electrode together with its extension being in length about one-half wave length, or multiple thereof.

2,405,815
LAMP HOLDER

Paul O. Cartun, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application January 22, 1945, Serial No. 573,871
5 Claims. (Cl. 200—50)



1. A lamp holder for an end of a tubular lamp comprising a casing having an opening through which a lamp end may be positioned in the holder, a contact in the lamp holder biased to a position away from the region occupied by a lamp end when in the holder, a cover for the opening for locking a lamp end in the holder, and means whereby the positioning of the cover in locking position moves the contact to a position where it may engage a lamp end contact.

2,405,816
O:O'-DIHYDROXY AZO DYESTUFFS AND A PROCESS FOR THEIR MANUFACTURE

Achille Conzetti, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss company

No Drawing. Application September 21, 1942, Serial No. 459,172. In Switzerland November 4, 1941
4 Claims. (Cl. 260—163)

1. Process for the manufacture of o:o'-dihydroxy azo dyestuffs which comprises coupling diazotised 6-nitro-2-amino-4-amplyphenol with a pyrazolone sulfonic acid.

2,405,817
COPOLYMER OF STYRENE AND FUSIBLE PARTIAL POLYMER OF DIVINYL BENZENE

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

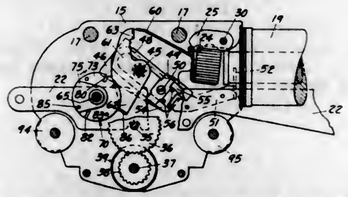
No Drawing. Application June 23, 1942, Serial No. 448,160
2 Claims. (Cl. 260—42)

1. A composition comprising a hard product of polymerization of a mixture comprising (1) an isolated, fusible partial polymer of divinyl benzene and (2) styrene, the per cent of (1) based on the total amount of (1) and (2) being from 1 to 20 per cent.

2,405,818
LOCK DISK FOR TIMING SYSTEMS

Adolph L. Denniston, Plainfield, N. J., and Samuel Harold Martin, Thomaston, Conn., assignors to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware

Original application February 26, 1942, Serial No. 432,386. Divided and this application March 6, 1944, Serial No. 525,222
3 Claims. (Cl. 74—526)

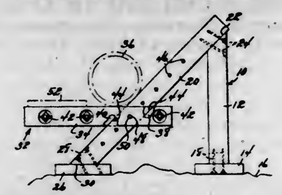


1. A time disk for controlling the operation of a job time recorder comprising a hub member, a disk secured thereto, plates rotatably mounted on said hub on either side of said disk and held against the side surfaces of said disk, the periphery of said disk being cut-away at a plurality of points and said plates being a width sufficient to cover one of said cut-away portions and having an outer edge matching the periphery of said disk whereby said plates may be rotated with respect to said disk to selectively cover one or the other of said cut-away portions.

2,405,819
SUPPORT

Herman U. Dustman, Miami, Ariz.

Application November 9, 1943, Serial No. 509,613
3 Claims. (Cl. 248—49)



1. A supporting device, comprising a frame provided with a substantially vertical member, and a member inclined from the vertical and having its upper end attached to the upper end of the vertical member, a horizontal member having an opening therein to receive the inclined frame member and faces of the opening frictionally engaging the inclined frame member, a part of the horizontal member extending out from the inclined member and designed to support a load, the faces of the opening bindingly engaging the inclined member under the influence of the load, and means for latching the horizontal member in predetermined positions on the inclined member.

2,405,820
PRODUCTION OF METHYL FORMYL-CHLOROACETATE

Herman Eldridge Faith, Indianapolis, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware

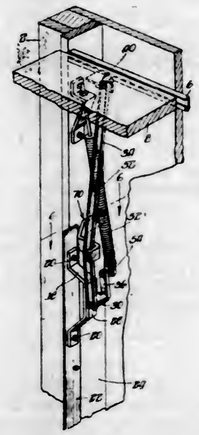
No Drawing. Application January 19, 1944, Serial No. 518,868
7 Claims. (Cl. 260—483)

1. A compound of the group consisting of methyl formylchloroacetate and alkali metal salts thereof.

2,405,821
GARAGE DOOR EQUIPMENT

William D. Ferris and Cecil R. Wolf, Sterling, Ill., assignors to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois

Application September 8, 1941, Serial No. 410,028
12 Claims. (Cl. 20—19)



1. In combination with an enclosure having a frame providing a door opening, a rigid door therefor adapted in vertical position to close said opening and adapted to swing bodily to a substantially horizontal overhead open position, interengageable track and roller means connected to said frame and door, a stationary support mounted to the rear of said door when the latter is in closed vertical position, an arm having an axis of turning disposed to the rear of said door when in vertical position, said arm having at its outer end a turnable pivotal connection with said door, spring means interconnecting said door with a stationary abutment on said frame tending to shift said door from a closed position to an open position and stop means disposed in the arcuate path of movement of said arm and having a portion adapted to be engaged by said arm for positively limiting the extreme opening movement of said door, said stop means having a portion adapted frictionally to be engaged by said arm as the door approaches said stop means, whereby to effect a preliminary snubbing or dampening action on the movement of said arm as said arm approaches extreme door opening position, said latter portion being shiftable out of the path of movement of said arm to permit said arm to engage said first mentioned portion of said stop means, and said last mentioned means being operative to prevent rebounding of the door outwardly after contacting said first mentioned portion of said stop means.

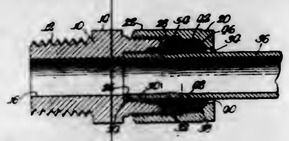
2,405,822
SEALED FLEXIBLE COUPLING

George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application February 26, 1943, Serial No. 477,183
6 Claims. (Cl. 285—90)

1. A coupling for thin walled tube comprising members including a body threaded at one end and having a passage therethrough, a nut having a threaded pocket engageable with the body, a

passage therethrough and an annular bottom in the pocket; and a sleeve having an opening therein slidable over the tube, said sleeve comprising a flange adapted to shiftably contact the annular bottom of the pocket when the coupling is assembled and a neck, a ring of resilient material of incompressible character having the property of flowing, said ring having initially an



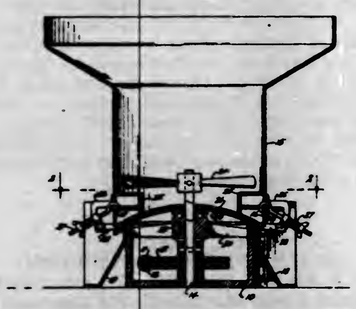
arbitrary shape and having an initial position adjacent the neck and flange of the ring in anticipation of a coupling operation and in coupled relation having a form and position confined within a space formed by the wall of the tube, one side of the sleeve and the coupling members, said neck being in forced contact with the tube under pressure exerted by the ring.

2,405,823
CONTAINER
Paul C. Gaylord, New Brighton, N. Y., assignor to Greif Bros. Cooperage Corporation, Cleveland, Ohio, a corporation of Delaware
Application October 8, 1943, Serial No. 505,423
4 Claims. (Cl. 229—5.5)



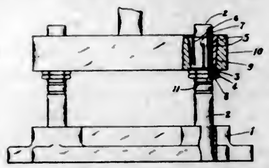
1. In a container having a fibrous laminated body with an open end, a compressible gasket of twisted fibrous material fastened by stitching to the outer wall of the body slightly below and in mutual parallelism with the rim edge of said open end.

2,405,824
FERTILIZER DISTRIBUTOR
Hermann E. Grether, Camarillo, Calif.
Application May 20, 1944, Serial No. 536,557
4 Claims. (Cl. 222—239)



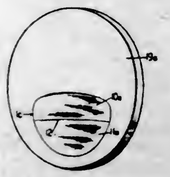
1. A fertilizer distributor comprising a hopper having outlets in the bottom of the sides thereof, a bottom for the hopper, means for rotating the bottom relatively to the hopper, said bottom presenting peripheral recesses cooperating with the sides of the hopper to form pockets adapted to be filled with fertilizer from within the hopper and which are consecutively brought into registration with the hopper, and spring actuated means urged into engagement with the walls of the hopper and the bottom for covering the pockets after they pass into and out of registration with the outlets.

2,405,825
DIE SET
Alfred Grunow, Nutley, N. J.
Original application April 5, 1945, Serial No. 586,794. Divided and this application October 5, 1945, Serial No. 620,544
4 Claims. (Cl. 164—118)



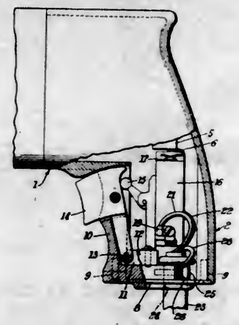
4. A die set having movable and immovable parts, guide posts secured therebetween, tapered holes in one of said parts in alignment with said posts, tapered bearings in said holes surrounding said posts, said bearings being contractable to take up the wear between said posts and said bearings, and threadably engaging means for drawing said contractable bearings axially through said tapered holes.

2,405,826
MULTIFOCAL OPHTHALMIC LENS BLANK
James H. Hammon, Vincennes, Ind.
Application December 18, 1942, Serial No. 469,418
2 Claims. (Cl. 88—54)



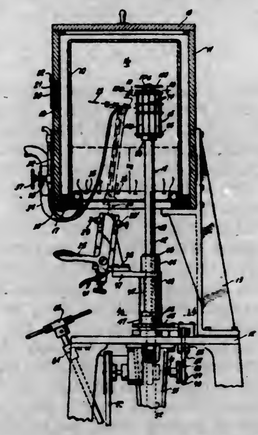
1. A multifocal ophthalmic lens blank comprising a major blank of a suitable index of refraction, a segment of substantial thickness throughout its entire area embedded in one face of said major blank so as to provide a thick embedded shoulder therearound, said segment being of a single index of refraction which is different from that of the major blank and being embedded in said major blank in such a manner that the segment is substantially laterally surrounded by the major blank so as to provide a thick embedded shoulder around the segment, said segment having a finished optical surface on its inner surface which consists of areas of different contours, said areas being associated with each other along a boundary face in such a manner that the areas will be at the same level at at least one portion of the boundary face therebetween and at different levels along other portions of the boundary face so as to provide merging surfaces along at least a portion of the boundary between the areas and a shoulder along the remainder of said boundary.

2,405,827
PORTABLE ELECTRIC TOOL
Reynold Happe, Pittstown, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 11, 1945, Serial No. 572,372
5 Claims. (Cl. 172—36)



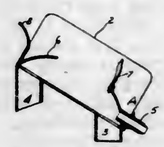
1. In a portable tool including a motor housing, an electric motor unit therein, a handle having a cavity open across the butt end and up the center only of the front of the handle, the upper end of the cavity communicating with the motor housing, motor circuit contacts carried by the motor unit and located adjacent the said upper end of the handle cavity, an apertured plate adapted to be secured to the butt end of the handle to close the end of said cavity and having a channel, upstanding wall portion forming a partial closure for the front opening of the handle, a pivoted switch trigger mounted on the plate in the channel thereof independently of the handle, said trigger normally projecting over said wall portion of the plate for external operation and substantially closing the remainder of the front opening of the handle, a trigger-controlled switch likewise mounted on the plate independently of the handle and having circuit contacts located to engage the said motor circuit contacts, a cable extending through the plate aperture with its leads connected to the switch, and a clamp securing the cable to the closure plate.

2,405,828
APPARATUS FOR ARC WELDING
William C. Huguley, Belleville, N. J.
Application July 28, 1944, Serial No. 547,011
4 Claims. (Cl. 219—14)



1. An apparatus for arc welding comprising a chamber, means for introducing the work to be welded into said chamber, a pair of electrodes pivotally mounted and axially adjustably positioned in said apparatus for juxtapositioning relative to the work, means for advancing said work relative to said electrodes, means for enveloping the electrode ends and work in a hydrogen atmosphere and means to seal said hydrogen atmosphere from the atmosphere of the room in which the apparatus is located.

2,405,829
SORTING CHUTE
Samuel C. Hurley, Jr., Danville, Ill.
Application September 18, 1944, Serial No. 554,581
2 Claims. (Cl. 209—74)



1. A sorting chute for articles comprising an inclined trough, at least one sorting port near the upper end of said trough, a baffle adapted and associated with said port to prevent the article fed into the trough between the ports from passing into the upper port, a port near the lower end of the trough through which articles pass by gravity, and means for preventing, when desired, an article from passing through the lower gravity port including means for causing the article to pass through the upper port.

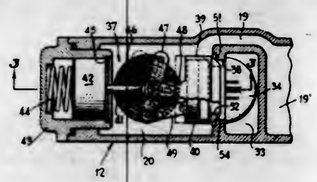
2,405,830
PROCESS OF RECOVERING PEANUT PROTEIN
George W. Irving, Jr., Arthur L. Merrifield, Raymond S. Burnett, and Edwin D. Parker, New Orleans, La., assignors to the United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application July 19, 1944, Serial No. 545,652
1 Claim. (Cl. 260—112)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A process of producing a white peanut meal protein comprising forming a suspension in water of a peanut meal and accompanying testa which remain after extraction of the oil from the peanut kernel, adjusting the suspension to a pH value of 6.8 to 7.2, separating the protein-containing aqueous extract from the insoluble residue, adjusting the pH of the aqueous extract to a value of 5.9 to 6.1 to precipitate the desired protein, and collecting the protein thus precipitated.

2,405,831
TEMPERATURE AND PRESSURE CONTROL
Raymond W. Jensen, Los Angeles, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif., a corporation of California
Application January 21, 1944, Serial No. 519,159
11 Claims. (Cl. 236—34)

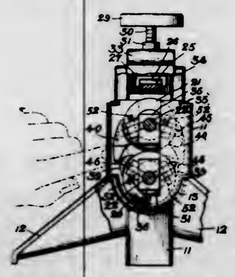
1. A combined pressure and temperature controlled valve for controlling the flow of a viscous fluid through a bypass port of a heat exchanger

having a normal heat exchange flow path, and a bypass, including said port, for circumventing said normal flow path, comprising: an annular valve element adapted to seat with reference to said port, a piston within said valve element and cooperating therewith to form a closure for said port, a temperature responsive connection be-



tween said piston and valve element for moving the latter with reference to the piston, and yielding means urging the piston to a predetermined position, said piston being movable against the force of said yielding means by pressure in said bypass and being adapted, when it thus moves, to operate said valve element, through said connection, to relieve said pressure.

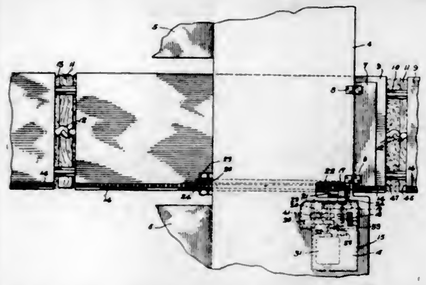
2,405,832
WRINGER
Otto E. Johnson, Chicago, Ill.
Application September 6, 1943, Serial No. 501,352
2 Claims. (Cl. 68—265)



1. In a wringer mechanism provided with feed rollers rotatably mounted, guard means mounted so as to contact the cylindrical periphery of one of the said feed rollers, and complementary guard means mounted so as to contact the cylindrical periphery of the other of said feed rollers, the said guard means and the said complementary guard means being disposed longitudinally of said feed rollers and on opposed sides of the line of contact of said feed rollers, the said complementary guard means provided with apron extensions at each end thereof in over-lapping relationship with the said first-mentioned guard means to prevent accidental mangling of the hands of an operator in that portion of the wringer extending beyond the range of the said feed rollers.

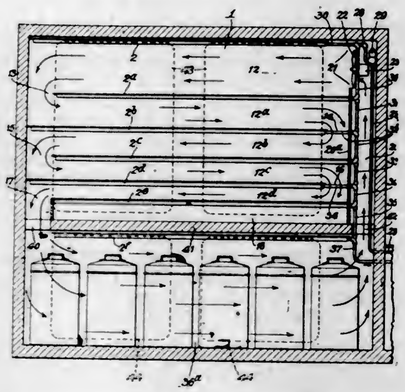
2,405,833
STRUCTURE FOR LOADING TRAILERS ON FLATCARS
Brooks E. Johnston, Chicago, Ill.
Application October 19, 1944, Serial No. 559,346
8 Claims. (Cl. 214—38)

1. In combination, a freight loading structure adapted for loading trailers onto flat cars operating on rails comprising, a horse-shoe-shaped ramp structure having its termini astraddle the said rails and its upper platform clearing the top deck of said flat cars, and means associated with said ramp structure adapted to motivate a train of flat cars a predetermined distance intermittently, the said motivating means comprising



geared drive means located on the said horse-shoe-shaped ramp structure, rack means embedded on the decks of said flat cars in meshing relationship with the said geared drive means, and starting means associated with the said geared drive means.

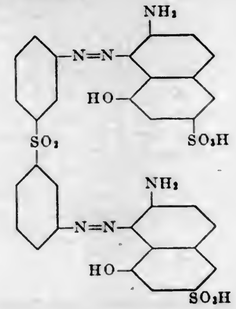
2,405,834
DEVICE FOR FREEZING FOODS
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Application December 29, 1941, Serial No. 424,741
2 Claims. (Cl. 62—102)



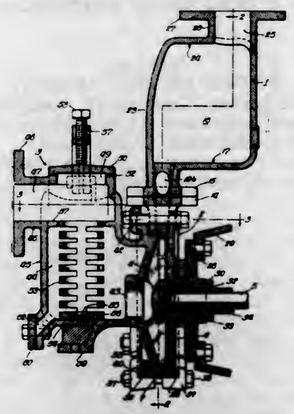
1. In a freezing and storage assembly for frozen foods and the like, a quick freezing compartment and means for quick freezing material inserted therein, including a plurality of vertically spaced generally horizontal cold plates arranged in staggered relation and adapted to form, with the walls of said compartment, a devious path for air, each said plate including upper and lower smooth surfaced metal sheets, whereby the passages defined between adjacent cold plates have smooth upper and lower walls, means for circulating a volatile refrigerant through said plates, and means, arranged to cooperate with said plates, for circulating air along the path defined by said plates, and an additional storage chamber having an air passage connection adapted to admit air from the quick freezing cabinet, and an air discharge connection adapted to return used air to the air circulating means.

2,405,835
ACID DISAZO DYESTUFFS AND A PROCESS FOR THEIR MANUFACTURE
Adolf Krebser, Riehen, near Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application June 15, 1942, Serial No. 447,147. In Switzerland July 29, 1941
1 Claim. (Cl. 260—178)

The acid disazo dyestuff having in the free state the following formula

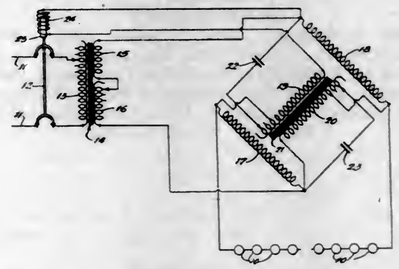


2,405,836
SELF-PRIMING PUMP
Harry E. La Bour, Elkhart, Ind.
Application March 8, 1944, Serial No. 525,530
7 Claims. (Cl. 103—113)



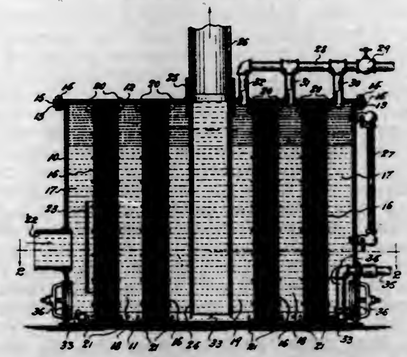
1. A pump of the class described, comprising an open bladed rotatable impeller and a stationary pump body, the body comprising an impeller housing and backplate member having a circular recess in which the impeller is disposed for rotation concentrically in the recess, said body providing a separator chamber communicating with the inside of the impeller recess through two ducts substantially tangent to the inside peripheral wall of the recess, said ducts opening into the impeller chamber through narrow slotlike throat openings of less width than the width of the blade tips of the impeller, the main throat opening being in advance of the priming throat opening and being of approximately double the area of opening of that of the priming throat opening, said ducts each having an expanding cross section from the throat to the separator, a closure plate for the open side of the impeller recess having a central inlet opening and an inlet trap communicating with said latter opening.

2,405,837
CURRENT CONTROL APPARATUS
Karl A. Lang, Glenview, Ill., assignor to Lindberg Engineering Company, Chicago, Ill., a corporation of Illinois
Application January 22, 1945, Serial No. 573,977
8 Claims. (Cl. 171—119)



1. Current control apparatus comprising a pair of reactors having one end of each connected to a supply source and the other end of each connected to a load, a pair of inductively coupled windings connected in a bridge circuit to the reactors, and a capacitor connected across at least one of the windings.

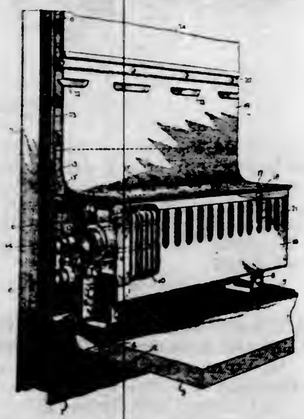
2,405,838
LIQUID SEPARATOR APPARATUS
Archibald Lawson, East Orange, N. J., and Charles M. Young, Newburgh, N. Y.
Application March 1, 1944, Serial No. 524,562
5 Claims. (Cl. 210—43)



1. Apparatus for separating the constituents of a liquid mixture, said constituents of which are of different specific gravities, comprising a closed housing having mixture intake means entering the side thereof adjacent to its bottom, a series of spaced concentric, liquid pervious, foraminous body masses of substantial thickness extending perpendicularly within the housing interior between the top and bottom thereof adapted to subdivide said housing interior into successive perpendicular chambers, whereby the liquid mixture entering said housing through said intake means may pass from one chamber laterally through a foraminous body mass into a succeeding chamber for the purposes described, each foraminous body mass comprising superposed layers of knitted metallic mesh adapted to exercise a capillary effect upon the constituent of the liquid mixture which is of lesser specific gravity, laterally spaced grilles bounding opposite sides of each said foraminous body mass to retain the same in place, means in communication with the bottom interior of said housing for drawing off a separated con-

stituent of the liquid mixture which is of greater specific gravity, and means in communication with the top interior of said housing for drawing off a separated constituent of said liquid mixture which is of lesser specific gravity.

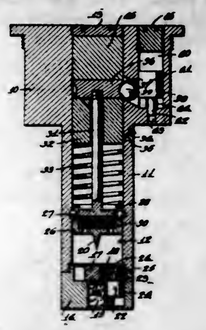
2,405,839
HEATER DUCT
Joseph Ledwinka, Philadelphia, and George Trautvetter, Jenkintown, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 4, 1943, Serial No. 501,340
2 Claims. (Cl. 257—136)



1. A heating installation for a compartment having a floor and a vertical side wall meeting in a corner, comprising in combination, a housing in the compartment corner, the housing having an imperforate horizontal wall spaced above the floor, a vertical wall at a relatively great distance from the compartment side wall joining and extending down from the outer edge of the horizontal wall to a point near but spaced from the floor, said housing side wall having heat outlet openings near the top only, a second vertical wall at a relatively small distance from said compartment side wall joining and extending up from the inner edge of the horizontal wall to a height along the compartment side wall well above the horizontal wall and there being closed against the compartment side wall, said second vertical housing wall having heat outlet openings near the top only, and a heating element beneath said horizontal wall, the arrangement being such that cool air from the compartment enters beneath the first vertical housing wall, is heated by said heating element and the heated air is restricted against upward movement by said horizontal wall, some escaping through the top openings of the first vertical housing wall and some being drawn in stack fashion up the narrow space between the second vertical housing wall and the compartment wall and escaping through the top openings in the second vertical housing wall.

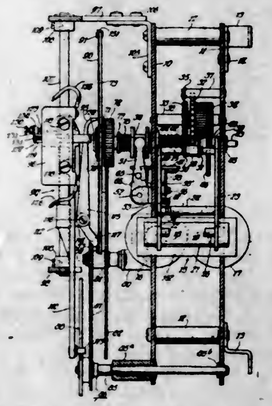
2,405,840
FUSE
Abner Y. Leech, Jr., Washington, D. C., and Henry H. Mohaupt, assignors to Societe Anonyme de Gestion et D'exploitation de Brevets, Switzerland
Application September 1, 1942, Serial No. 456,919
8 Claims. (Cl. 102—78)

1. A fuse for drop bombs of the character described comprising, in combination, a fuse body having a main through bore, closure means at each end of said bore, a detonator in one of said closure means, safety means normally holding the detonator in safe position, a member having a firing pin normally spaced from said detonator, means for locking the firing pin against movement until target impact, a movable abutment member, a spring between said two last members



adapted to be compressed on water impact, a locking means for holding the abutment member in its moved position with the spring in compressed condition, a hammer in said bore and free to move only on target impact, a locking means for said hammer, and means holding the hammer in locking position until after water impact whereupon the hammer member is free to move the firing pin on target impact.

2,405,841
PROGRAM INSTRUMENT
Richard L. Lorens, Chicago, Ill., assignor to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware
Application December 14, 1942, Serial No. 468,924
32 Claims. (Cl. 161—3)

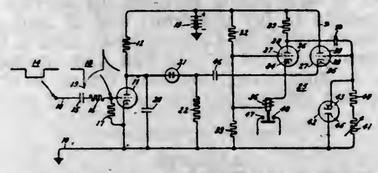


1. A program instrument comprising a perforated chart, a feeler cooperating with the surface of said perforated chart, time responsive driving means for rotating said chart past said feeler, means operated by said time responsive driving means to cause simultaneous movement of said chart and said feeler towards each other, and circuit closing means actuated by the relative motion between said chart and said feeler which results when said feeler is in registry with a perforation on said chart.

2,405,842
METHOD OF MAKING DIALLYL PHTHALATE
John K. Magrane, Highland Park, Amos Raymond Esterly, Metuchen, and Richard E. Davies, Plainfield, N. J., assignors to Catalin Corporation of America, a corporation of Delaware
No Drawing. Application April 8, 1944, Serial No. 530,229
7 Claims. (Cl. 260—475)

1. The method of preparing diallyl phthalate which comprises esterifying allyl alcohol with phthalic anhydride in contact with an acid catalyst of esterification, whereby there is formed diallyl phthalate containing colored volatile aldehydic material, adding an alkali to neutralize the acidity remaining after completion of the esterification, continuing the contact of the alkali with the product of esterification for at least 5 minutes to convert the colored aldehydic material to substantially non-volatile form, and then distilling the diallyl phthalate away from the colored material.

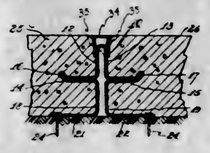
2,405,843
SIGNAL RESPONSIVE CONTROL SYSTEM
William W. Moe, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Original application November 14, 1941, Serial No. 419,223. Divided and this application January 5, 1944, Serial No. 517,097
4 Claims. (Cl. 250—27)



1. A pulse generating system comprising, in combination, a normally conductive electron discharge device having an anode circuit serially including a first and second impedance and a grid circuit including said second impedance, a second electron discharge device having anode and grid circuits both including said second impedance, additional means normally biasing said second device to a non-conductive condition, means for causing the anode potential of said first device to increase momentarily, means responsive to said potential increase for rendering said second device conductive and said first device non-conductive for a predetermined time interval, said last-mentioned means comprising a capacitor charged from said anode potential through a resistor included in the grid circuit of said second device, said second device being maintained conductive so long as the capacitor charging current exceeds a predetermined value, and means for restoring said devices rapidly to their initial conditions at the end of said interval and for discharging said capacitor, said last means comprising a unilaterally conducting device of low impedance in shunt to said resistor.

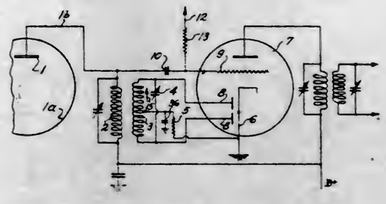
2,405,844
EXPANSION AND CONTRACTION JOINT
Gunnar C. Mortenson, Chicago, Ill.
Application November 29, 1944, Serial No. 565,673
6 Claims. (Cl. 94—8)

1. In a device of the kind described, an expansible joint for providing a space between the ends of adjacent slab sections, said joint being composed of metal fabric comprising a stool-like member formed of a single metal fabric strip and having downwardly extending spaced apart wall sections merging in an upper ridge; an outward-



ly extending anchoring flange formed integral with each of said wall sections; and base flanges extending oppositely and outwardly from the lower portions of said wall sections to temporarily support said expansion joint units.

2,405,845
COMBINED LIMITER AND SQUELCH CIRCUIT
Ernest R. Pfaff, Chicago, Ill., assignor, by mesne assignments, to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application February 20, 1942, Serial No. 431,643
6 Claims. (Cl. 178—44)

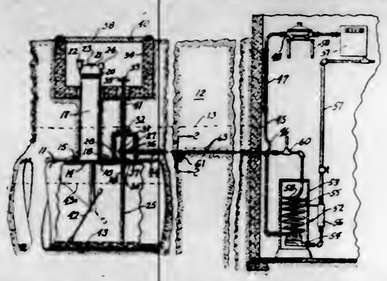


1. In a voltage limiter for removing high amplitude portions from a frequency modulation signal wave, including a pair of amplifiers coupled to each other for amplifying said signal, a transformer having a primary and a center tapped secondary coil, a double diode rectifier tube, a biasing resistance and a capacity connected to said center tap and to the cathode of said rectifier, the anodes of said rectifier tubes being connected to the ends of said secondary, one of said amplifiers being coupled to said transformer and a source of signal coupled to the primary of said transformer, said resistance providing a negative bias for the anodes of the rectifier during steady or uniform portions of the signal wave to maintain the rectifier against rectification of such portions and said signal upon reaching a predetermined amplitude to overcome said bias and to cause rectification in said circuit to remove said high amplitude portions of said signals being transferred between said amplifiers.

2,405,846
GAS DISPENSING APPARATUS
Robert E. Poethig, Chicago, Ill., assignor to The Bastian Blessing Co., Chicago, Ill., a corporation of Illinois
Application November 27, 1941, Serial No. 420,664
11 Claims. (Cl. 62—1)

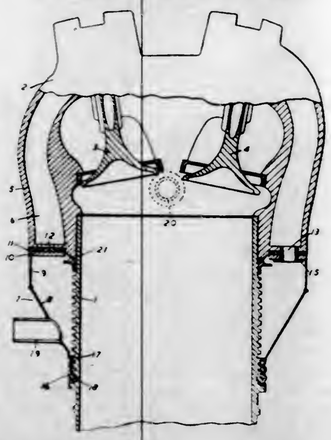
7. In combination with a service conduit for conducting liquefied petroleum gas fuel therein in its liquid phase, means confining a body of water to circulate in fuel vaporizing relation with

the conduit in adjacency therewith, and means disposed between said conduit and body of water



throughout their adjacency and restricting the interchange of heat therebetween.

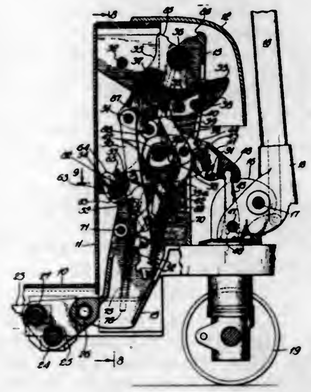
2,405,847
COOLING JACKET FOR INTERNAL-COMBUSTION ENGINES
Cyril George Pullin, Wimbledon, London, England, assignor to The Cierva Autogiro Company Limited, London, England, a British company
Application March 23, 1945, Serial No. 584,273
In Great Britain April 28, 1944
2 Claims. (Cl. 123—173)



2. In a liquid-cooled internal combustion engine, a cylinder having a jacketed head and a barrel secured in said head, said head presenting an end surface lying in a plane at right angles to the axis of said barrel and formed with ports for the passage of cooling liquid into the jacket around said head, a metal ring formed with complementary ports in registration with said first-mentioned ports, said metal ring being rubber-bonded to said surface, liners around the edges of said registering ports to prevent the bonding rubber from obscuring said ports, and a cooling jacket surrounding said barrel and united to said metal ring.

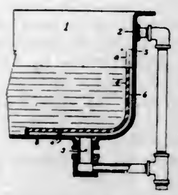
2,405,848
LIFT TRUCK
George Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application December 11, 1942, Serial No. 468,715
25 Claims. (Cl. 254—2)

20. In a truck of the class described, a lifting head, a lifting platform, upper and lower links pivotally connecting the front end of said lifting platform to said lifting head to form a complete truck and to mount said lifting platform for lifting movement relatively to said lifting head, wheel supporting links pivoted to the rear end of said platform, means whereby the lifting movement of the front end of said platform relatively to said lifting head moves said wheel sup-



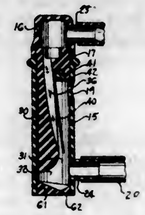
porting links to lift the rear end of said platform, a movable lifting member mounted on said lifting head, means formed on one of said links engaged by said lifting member for moving said link whereby to lift the front end of said platform relatively to said lifting head, and a holding member pivoted to said link and adapted to engage holding means on said lifting head for holding said lifting platform in its lifted position.

2,405,849
OVERFLOW DEVICE FOR LIQUID CONTAINERS
Malcolm D. Riker, Detroit, Mich.
Application November 13, 1943, Serial No. 510,223
4 Claims. (Cl. 4—206)



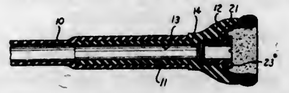
1. An overflow device for a bath tub or other liquid container having a main outlet in its bottom adjacent one wall thereof and an overflow outlet in the said wall adjacent the top, comprising a flexible shield formed of a comparatively flat sheet of material provided with parallel ribs on one surface thereof and providing, when the parts are in position, passageways for liquid open at the upper end to receive liquid and at the bottom to discharge to the tub outlet, the arrangement permitting adjustment of the shield to vary the height of the open end of the passageways from the bottom of the tub, thereby providing for continual flow of liquid to the tub from the inlet without materially varying the level of the liquid in the tub.

2,405,850
ARTIFICIAL LARYNX CONSTRUCTION
Ottie Roberts, East St. Louis, Ill.
Application March 22, 1945, Serial No. 584,189
15 Claims. (Cl. 3—1.1)



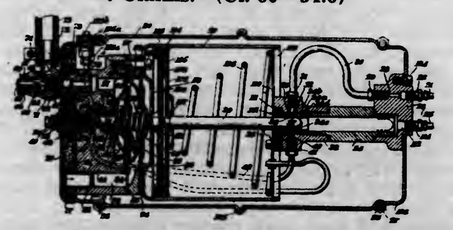
13. In a reed and lay assembly for an artificial larynx, a reed of beating type, a lay, an element supporting corresponding ends of the reed and lay, a sound box about the reed and lay, the lay being curved over its effective length underlying the reed, substantially the first one-third of the lay, beyond its supported end, closely approaching a rectilinear contour but exhibiting a slight convexity, the adjacent portion of substantially one-third of the effective length of the lay being appreciably arched and convexly presented toward the reed, the lay surface being continued into a portion most remote from the supported end of the reed, in a distinctly diverging relation thereto.

2,405,851
TRACHEA CONNECTION
Ottie Roberts, East St. Louis, Ill.
Application March 22, 1945, Serial No. 584,190
3 Claims. (Cl. 3—1.1)



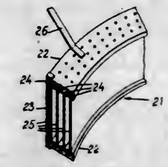
2. In a trachea connector, a trachea cup characterized by a deep internal chamber, a cushioning element consisting of an annulus of cellular rubber-like material, of at least the diameter of the peripheral portion of the cup, and anchored to substantially the deepest end of the cup, the cushioning annulus projecting axially and toward the neck of the user substantially beyond the margin of the cup.

2,405,852
POWER UNIT
Edward A. Rockwell, Forest Hills, N. Y., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Original application November 8, 1938, Serial No. 239,436. Divided and this application December 1, 1939, Serial No. 307,116
7 Claims. (Cl. 60—54.6)



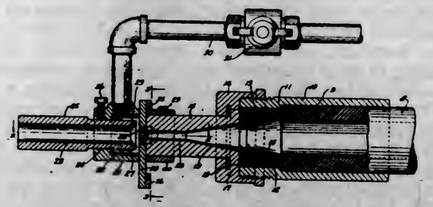
2. A power unit comprising a valve for controlling the access of a pressure different from the atmosphere, a valve for controlling access of atmospheric air pressure, a hydraulic pressure connection leading to the outside of the power unit, including a plunger, for operating said valves and which is subject to the reaction from said hydraulic pressure applied for seating one of said valves while unseating the other valve, a movable wall normally submerged in one of said pressures, adapted to be moved by a difference of said pressures according to the position of said valves for performing work, means, including a hydraulic plunger, connected to the movable wall for providing and delivering from the power unit hydraulically an increased pressure, a cylinder in which the movable wall reciprocates, having a cylinder head, a ring for supporting elements of said valves, and means for supporting said ring from said cylinder head.

2,405,853
OIL-FILLED ELECTRICAL APPARATUS
Samuel J. Rosch, Yonkers, N. Y., assignor to Anaconda Wire and Cable Company, a corporation of Delaware
Application May 29, 1942, Serial No. 445,007
8 Claims. (Cl. 210—203)



1. A cartridge for immersion in the insulating oil used in transformers to absorb deterioration products from the oil which comprises a supporting structure, a plurality of spaced sheets of fibrous material having carbon black incorporated therein, said sheets being so spaced that substantially the entire surface of each of the sheets is exposed to contact with the oil, means for securing the sheets in said spaced positions in the supporting structure whereby the oil may flow between the sheets without passing therethrough, the space between said sheets being substantially free of encumbrance to the flow of oil therethrough and passage means in the supporting structure through which the oil may flow and pass into the space between the spaced sheets in the course of normal circulation of the oil in the transformer.

2,405,854
GUN FOR BLASTING AND SPRAYING
Richard Ruemelin, Milwaukee, Wis.
Application September 7, 1944, Serial No. 552,989
5 Claims. (Cl. 51—11)



3. A gun for blasting and spraying comprising an inner nozzle having a duct therein, means for supplying a dry material under pressure to the duct of said inner nozzle, an outer nozzle having

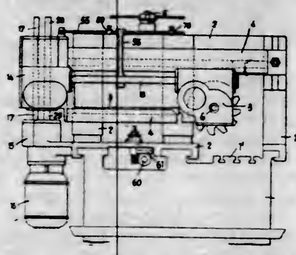
a duct communicating with its inner end, means connecting the inner end of said outer nozzle adjacent the outer end of said inner nozzle with a space between said adjacent nozzle ends, means for admitting liquid to said space, and a valve on said gun positioned for quick manipulation by the operator while holding the gun for controlling the flow of dry material from the inner nozzle.

2,405,855
FRAMELESS WINDOW SCREEN
David Jordan Rust, San Leandro, Calif., assignor to Ry-Lock Company, Ltd., San Leandro, Calif., a corporation of California
Application May 24, 1945, Serial No. 595,495
1 Claim. (Cl. 160—327)



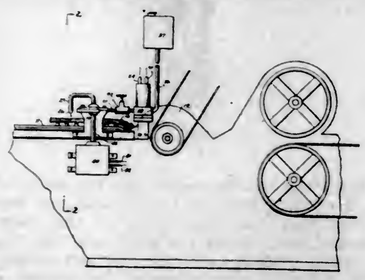
A screen for a window frame or the like comprising a sheet of screening, means securing opposite ends of the sheet to opposite ends of the frame, the edges of the sheet between the ends being inturned at an angle to the plane of the sheet whereby to provide edges which abut against the frame between the ends thereof.

2,405,856
AUTOMATIC MILLING MACHINE FOR CUTTING TEETH IN RACK BLANKS AND TRANSVERSELY GROOVING THE WORK
Otto Schaerer, Basel, Switzerland
Application September 24, 1942, Serial No. 459,554
In Switzerland October 4, 1941
4 Claims. (Cl. 90—9)



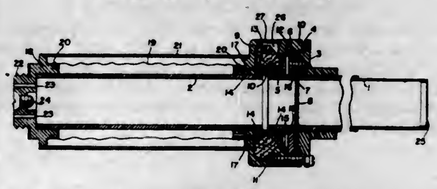
1. In an automatic rack milling machine, a stationary bed frame supporting an electric motor, a work-clamping table rigid with said frame, a bridge-shaped standard carriage movable lengthwise on the table, longitudinal slideways for said carriage on one side of the table and an auxiliary longitudinal slideway on the other side of the table, a vertically adjustable cutter-holding carriage traversable across the table transversely relative to said slideways, actuating means on the standard carriage for the cutter and cutter-holding carriage, and means for correlating movements of said standard carriage with movements of said cutter-holding carriage comprising a dividing mechanism supported at one end of the bed frame, said mechanism including a dividing spindle actuated by said motor, a notched dividing plate, a setting lever having a cam cooperable with the plate notch, a ratchet wheel on the plate shaft positively driven by the motor, and magnetic means associated with said lever and temporarily interconnecting said plate and wheel responsive to operation of the cutter and carriage.

2,405,857
APPARATUS FOR APPLYING TREATING LIQUIDS TO FIBERS
Hughes L. Siever, Keyser, W. Va., assignor to Borne Scrymser Company, a corporation of New Jersey
Application June 26, 1944, Serial No. 542,197
4 Claims. (Cl. 68—205)



1. Apparatus for applying a treating liquid to a horizontally moving lap or mass of fibers which comprises a pipe disposed in spaced relation above the moving mass, the longitudinal axis of the pipe being at right angles to the path travelled by the fibers, said pipe having a plurality of outlets and means for supplying the treating liquid to these apertures with sufficient head for it to flow out of the open ends of said apertures, and means for imparting blows to the pipe intermittently to shake the drops of liquid from the apertures onto the moving lap.

2,405,858
ACOUSTIC COUPLER FOR CONDENSER MICROPHONES
Harold C. Silent, Los Angeles, Calif., assignor to the Government of the United States of America, as represented by the Secretary of the Navy
Application November 29, 1944, Serial No. 565,757
6 Claims. (Cl. 181—0.5)



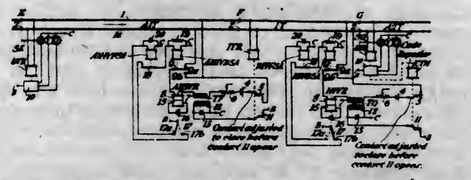
1. An acoustic coupler for a condenser microphone having a single restricted opening for access of sound waves thereto, comprising a first tubular part having an internal shoulder adjacent one end, a second tubular part having one of its ends secured in the said one end of the first part, a thin rubber diaphragm clamped in position between said shoulder and the said one end of the second part to close the opening through the parts against moisture and dirt, means defining a closed annular chamber around a portion of said first part, a body of granular disiccant in said chamber, a flexible member surrounding the major portion of said first part secured at its ends to said first part in air-tight relation and spaced therefrom between its ends, there being ducts connecting said annular chamber to the space within said member and other ducts connecting said chamber to the space within said first part, matter filamentary material disposed to exclude the disiccant from said ducts, and an end member fixed to and substantially closing the other end of the first part, said member being provided with elements to secure the coupler to the microphone to conduct sound to said opening in the microphone and with passages for the transmission of the sound, and a removable closure in one of said passages which, when the closure is removed, renders the device effectively responsive to higher sound frequencies than when the closure is in the passage.

2,405,859
TUBULAR STRUCTURAL MEMBER
Howard E. Somes, Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 20, 1941, Serial No. 423,739
2 Claims. (Cl. 166—4)



1. An elongated tubular metallic structure of the character subject in use throughout portions of its length to predominating axial compressive stresses and throughout other portions of its length to predominating axial tension stresses, having the wall of each of said portions comprised of integral inner and outer layers of metal, said inner layers having a yield strength materially greater than that of the outer layers, said inner and outer layers of said first-mentioned portions which are subject to predominating axial compressive stresses being under residual compression and tension stresses, respectively, and said inner and outer layers of said other portions which are subject to the predominating axial tension stresses being under residual tension and compression stresses, respectively.

2,405,860
RAILWAY TRAFFIC CONTROLLING APPARATUS
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 19, 1944, Serial No. 523,065
7 Claims. (Cl. 246—38)

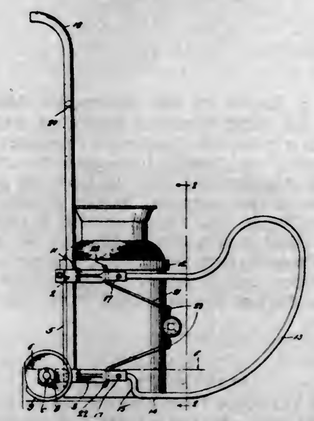


1. In combination, a section of railway track, means for supplying coded signaling energy consisting of alternate "on" and "off" periods to the rails of said section, a track relay connected across the rails of said section and responsive to said coded energy, means for supplying to the rails of said section during each "on" period of the code a high voltage impulse of less duration than the "on" period to increase the shunting sensitivity of the track circuit formed by said track relay and the rails of said section, and means for detecting the presence of said high voltage impulse comprising a relay subjected to the track circuit energy and operable from one position to another if and only if said high voltage impulse is present during each "on" period.

2,405,861
PRODUCTION OF ALGINATE SOLUTIONS
Charles William Tod, Kingswinford, Brierley Hill, England, assignor to Albright & Wilson Limited, Oldbury, near Birmingham, England, a British company
No Drawing. Application September 11, 1942, Serial No. 458,064. In Great Britain September 19, 1941
10 Claims. (Cl. 252—316)

1. A process of preparing a solution of an alkaline earth alginate comprising the steps of introducing into an aqueous solvent sequestering salts chosen from the group consisting of molecularly dehydrated alkali metal polyphosphates and alkali citrates and thereafter introducing alkaline-earth alginate and forming stable complex ions therefrom by the action of the sequestering salts thereon.

2,405,862
DISPENSING TRUCK
John Toomey, Holbrook, Mass.
Application June 15, 1945, Serial No. 599,696
3 Claims. (Cl. 280—53)



1. A truck of the character described comprising a frame including a pair of handles, a pair of wheels journaled at one end of the frame, a pair of flexible members attached at one end to one side of the frame and carrying connecting means at the other end, another pair of flexible members attached at one end to the other side of the frame and carrying connecting and tightening means for cooperation with the first named connecting means, a pair of rockers each connected to one side of the frame and in opposed relation to the wheels.

2,405,863

DICYANODIAMIDE-AMMONIA CONDENSATION PRODUCTS AND PROCESS FOR MAKING SAME

Jules Treboux, Riehen, near Basel, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application March 25, 1943, Serial No. 480,567. In Switzerland June 22, 1942
1 Claim. (Cl. 260—69)

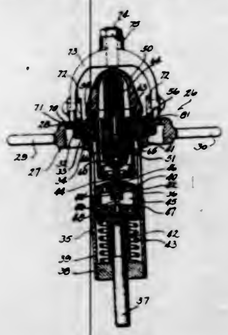
A process for the manufacture of an acid soluble condensation product from dicyanodiamide, urea, ammonium chloride and formaldehyde, which comprises boiling for several hours substantially one mol of dicyanodiamide with at most one mole of urea in presence of hydrochloric acid, whereby the urea is partly hydrolyzed to NH_4Cl, adding at least two mols of formaldehyde and condensing at 75°–85° C.

2,405,864

FLUID CARRYING, TRANSFERRING, AND SHUTOFF DEVICE

Lloyd W. Vizay, Milwaukee, Wis., assignor to L. W. Vizay Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application December 21, 1942, Serial No. 469,615
14 Claims. (Cl. 284—4)



1. In a device of the character described, a conduit for fluid transfer provided with a feed terminal, a reservoir having a receptor, said terminal being receivable into said receptor for a complete engagement in fluid transfer position, a yoke to hold the terminal in said connected position, a valve in the receptor and a valve in the feed terminal provided with springs for immediate closure thereof upon removal of the terminal from the receptor, and a heavy spring in the receptor biased to thrust the terminal from the receptor.

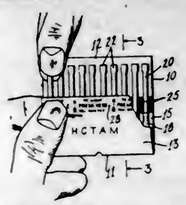
2,405,865

MATCH PACKAGE

Henry B. Watkins, Worthington, Ohio, assignor to The Kilgore Manufacturing Company, Tipp City, Ohio, a corporation of Ohio

Application August 11, 1942, Serial No. 454,479
8 Claims. (Cl. 206—29)

5. A match package comprising a match holding strip having a plurality of pockets formed therein, matches having heads extending into said pockets and having ends projecting outwardly therefrom in position to be grasped and withdrawn, a striker strip located at the outer end of said pockets and engageable with the match head only after withdrawal thereof from its pocket, and a flexible cover member, said cover member having a transversely extending rib projecting toward said striker strip and substantially in alignment with the outer end thereof, said cover member and said rib being adapted



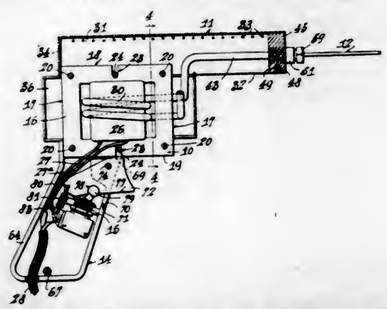
to be manually depressed toward said striker strip to force said match heads into friction and igniting contact with said striker strip upon withdrawal.

2,405,866

ELECTRICAL HEATING APPARATUS

Carl E. Weller, Easton, Pa.

Application July 14, 1941, Serial No. 402,372
4 Claims. (Cl. 219—26)



1. An electrical heating apparatus comprising a quick-heating soldering iron including a step-down transformer having primary and secondary turns, said secondary turns being of pronouncedly greater cross-sectional area than said primary turns, and a detachable heating tip rigidly mounted and held tightly in electrical communication with the secondary winding, said heating tip being of pronouncedly smaller cross-sectional area than the secondary winding.

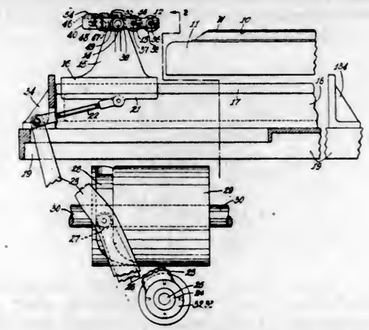
2,405,867

WRAPPER PREPARING MECHANISM FOR CIGAR MACHINES

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application December 20, 1940, Serial No. 370,923
10 Claims. (Cl. 131—101)

9. In a cigar machine having a cutting die, the combination with a horizontal support movable horizontally to and fro underneath said die, an ting rollers mounted on said arm for movement to and fro above the die and arranged to coact with the die to sever a section from leaf tobacco thereon, an oscillating actuator, an oscillatory member connected to said support, means frictionally connecting said member to said actuator to horizontally move said support to and fro to carry the cutter rollers to and fro over the die, said connecting means being yieldable to permit the oscillatory member to remain stationary and thereby cause termination of the movement of said support while said actuator continues to move, whenever there is an obstruction in the path of the rollers offering a predetermined minimum resistance as they move forwardly or backwardly over the die, and said connecting means operating automatically after removal of the ob-



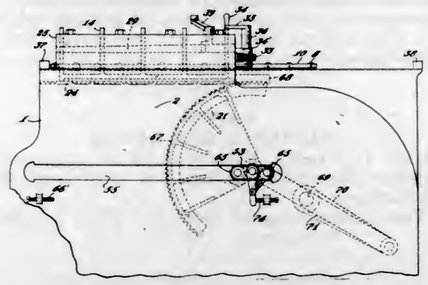
struction during the movement of said actuator to cause said member to resume its movement with said actuator and thereby move said support.

2,405,868

CUTTING AND CREASING PRESS

Lloyd A. Whittaker and Harold F. Peterson, Franklin, Mass., assignors to Thomson-National Press Co., Inc., Franklin, Mass., a corporation of Massachusetts

Application March 8, 1944, Serial No. 525,618
11 Claims. (Cl. 164—19)



11. In a cutting and creasing machine, a frame, a head having a flat surface mounted thereon, means for fixing the head in a desired position for operation, an arcuate sector table in substantially tangential contact with said head, a shaft supporting said table, a carriage journalling said shaft and permitting free rotation of the same and said table, said machine having a single drive source comprising means providing translatory motion for said carriage parallel to the surface of said head, and means interconnecting said head and said table for oscillating the table during translatory motion of the carriage.

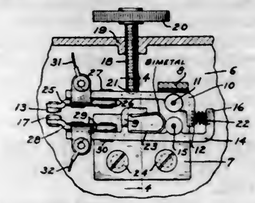
2,405,869

THERMOSTATIC SWITCH

Alfred Wild, Milwaukee, Wis.

Application January 24, 1944, Serial No. 519,481
11 Claims. (Cl. 200—139)

1. A switch comprising, a pair of elongated rigid L-shaped carrier arms swingable about spaced pivots and having their corresponding ends provided with surfaces which are spaced apart and disposed on one side of said pivots, cooperating contacts carried by the opposite corresponding ends of said arms, a compression spring coacting with said surfaces and constantly resiliently urging said contacts toward each other through said rigid arms, and a U-shaped thermostatic element



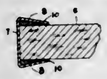
interposed between said arms on the opposite side of said pivots and acting in opposition to said spring.

2,405,870

PLATFORM SOLE FOR SHOES

Richard Almy, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application January 11, 1945, Serial No. 572,265
2 Claims. (Cl. 36—25)



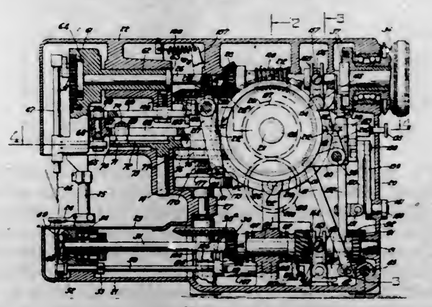
1. A platform sole for shoes comprising a readily compressible, resilient and flexible cushioning layer adapted to be disposed between the inner portion of the shoe and an outsole, a narrow substantially incompressible, flexible strengthening reinforcement disposed upon said layer along the peripheral portion of the forepart of the sole and lying substantially entirely above the plane of the upper surface thereof, said reinforcement rigidifying the periphery only of said layer to render such edge portion substantially incompressible in a direction along the plane of the upper surface of said layer without detracting substantially from its flexibility as a whole, and a binding of decorative sheet material disposed over the peripheral edge portion of said layer and over said reinforcement.

2,405,871

SEWING MACHINE

Samuel W. Avis, deceased, late of Wellesley, Mass., by Harriette M. Avis, administratrix, Wellesley, Mass., assignor to The Reece Corporation, a corporation of Maine

Application May 21, 1943, Serial No. 487,860
32 Claims. (Cl. 112—159)



4. In a sewing machine, stitch forming mechanism including a longitudinally reciprocating needle, work holding means, means for relatively vibrating said work holding means and needle

transversely of the latter, and means for automatically suspending the operation of said vibrating means including a controller adjustable to cause suspension after a variable movement thereof, and means for moving said controller at a variable speed with respect to the speed of reciprocation of said needle.

2,405,872

METHOD FOR REMOVING WEAKLY ACIDIC SULPHUR COMPOUNDS FROM HYDROCARBON OIL

George W. Ayers, Chicago, and Daniel M. Barton, Elmwood Park, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application June 21, 1943, Serial No. 491,668
8 Claims. (Cl. 196—30)

1. The method of removing weakly acidic sulphur compounds from hydrocarbon oil which comprises contacting said oil with aqueous solution containing at least 5% by weight of free alkali metal hydroxide and a sufficient amount of the soluble reaction products of an alkali and high-boiling tar acids which have been freed by water washing of constituents which react with ferric chloride in aqueous solution to impart thereto a greenish-black coloration to enhance the ability of said solution to extract said sulphur compounds from the hydrocarbon oil.

2,405,873

PROCESS FOR THE PREPARATION OF ALPHA-HYDROXY CARBOXYLIC ACIDS

Joseph Blumenfeld, New York, N. Y.

No Drawing. Application October 17, 1942, Serial No. 462,415
8 Claims. (Cl. 260—521)

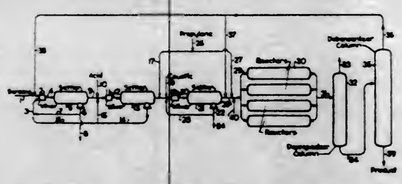
1. In the art of chemical synthesis, the herein described step which comprises subjecting α hydroxy isopropyl methyl ketone to treatment with a solution of a hypochlorite, to oxidize same to hydroxy isobutyric acid.

2,405,874

ALKYLATION OF AROMATIC HYDROCARBONS

Edwin F. Bullard, Oakland, John Anderson, Berkeley, and Sumner H. McAllister, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application November 2, 1942, Serial No. 464,286
11 Claims. (Cl. 260—671)



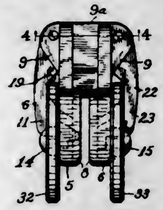
11. A process of alkylating an aromatic hydrocarbon which comprises reacting a molar excess of said hydrocarbon with an alkylating agent under a pressure of at least 250 pounds per square inch in the presence of a solid acid alkylation catalyst under alkylation conditions, separating unalkylated aromatic hydrocarbon from the reaction products and contacting at least a part thereof with sulfuric acid for a time sufficient to materially reduce the thiophene content thereof, and returning the thus-treated hydrocarbon to the alkylation reaction.

2,405,875

REVERSIBLE AUTOMATIC LOCK SLIDER

Alfred E. Carlile, Great Neck, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania

Application September 16, 1944, Serial No. 554,389
17 Claims. (Cl. 24—205.5)



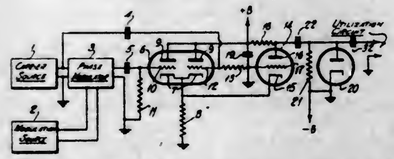
1. In a lock slider of the class described, a channeled slider body having spaced wing portions connected at one end by a neck portion, a locking element having a locking projection carried thereby which extends normally into the channel of said slider body for locking the slider, said locking element being pivotally attached to one of the wing portions of said slider body, a member pivotally arranged on the opposed wing portion on the opposite side of said slider body, a pull member connected to each of said locking element and said last mentioned member so that a pull is disposed on either side of the slider for manipulating the same, and means extending between said wing portions interconnecting said locking element and said last mentioned member whereby when either the locking element or last mentioned member, or both, is moved by its respective pull member about its pivotal connection the locking element will be moved to unlocked position.

2,405,876

VARIABLE DOT KEYER

Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1943, Serial No. 492,854
14 Claims. (Cl. 250—17)



1. The method of signaling which includes comparing the phase of half-cycles of a phase modulated wave with half-cycles of an unmodulated component of said wave, producing a square wave the positive components of which vary in duration between 50% for the condition of phase agreement between said half-cycles and 0% for the condition of phase opposition, and transmitting a carrier wave which is interrupted by half-cycle components of said square wave.

2,405,877

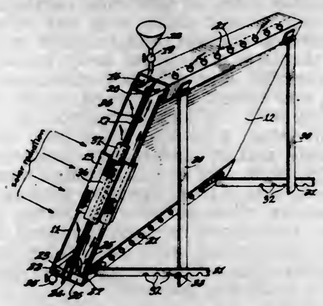
APPARATUS FOR SOLAR DISTILLATION

William R. P. Delano, Syosset, N. Y., assignor to Gallowhur Chemical Corporation, New York, N. Y., a corporation of Vermont

Application October 6, 1943, Serial No. 505,151
5 Claims. (Cl. 202—234)

1. In an apparatus for distilling liquids, the combination of, a layer of absorbent material,

means for saturating the layer with the liquid to be distilled, a closed container formed of flexible material in which the absorbent layer is disposed, a transparent window in the container spaced from one face of said layer of absorbent material, means to dispose the transparent window normal



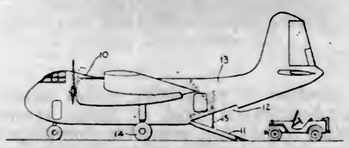
to the sun's rays whereby said face of the absorbent layer is heated by solar radiation, a chamber located adjacent the opposite face of said layer of absorbent material and in heat transferring relation with respect thereto, and means for heating air in said chamber to promote distillation of liquid from said absorbent material.

2,405,878

AIRCRAFT RAMP OPERATING MEANS

George Elwert, Conshohocken, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 13, 1944, Serial No. 526,228
8 Claims. (Cl. 244—137)



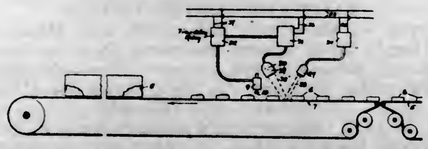
1. In an aircraft in combination, a fuselage, a floor-covered ramp hinged at one end to the fuselage, means on the ramp and fuselage at a distance from the hinge line for supporting the ramp from the fuselage, and means on said ramp operating through said ramp-supporting means for lowering and raising the ramp about its hinge line, said ramp-operating means including a power drive motor beneath the floor of the ramp and a manual auxiliary operating element accessible through the floor.

2,405,879

CANDY DECORATING APPARATUS

Arthur F. Fredricksen, Milwaukee, Wis.

Application April 21, 1945, Serial No. 589,657
3 Claims. (Cl. 107—1)



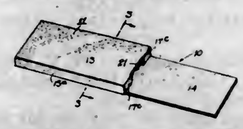
1. In a candy decorating apparatus, the combination of a belt for carrying coated pieces of candy in longitudinally alined spaced apart condition, the surface of the belt and the coatings having different light reflecting characteristics, a designer for imparting a design on the coated surface of the individual pieces of candy as they move with the belt and including an electrically controlled member, a source of electric current, light responsive means operable through differences of light reflecting characteristics between the coated pieces of candy and the belt, and means operated by said light responsive means for establishing current flow through said electrically controlled member when a coated piece of candy is spotted beneath said designer.

2,405,880

WATCH BOX PAD

Samuel Flier, Springfield, Mass.

Application June 13, 1944, Serial No. 540,047
1 Claim. (Cl. 206—75)



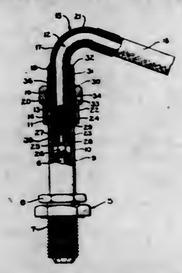
A jewelry pad blank having a wide and narrow portion comprising a sheet of pasteboard and a fabric covering on the top side of said pasteboard, a pair of parallel score lines in said wide portion of said pasteboard extending longitudinally thereof adjacent its side edges to form a pair of flaps which may be folded downwardly, additional parallel score lines in said narrow portion of said pasteboard extending transversely thereof immediately adjacent said wide portion to form a step portion, and a U-shaped cut in both the pasteboard and the fabric covering thereon between the last mentioned score lines with the base of the U-shaped cut coinciding with the transverse score line nearest said wide portion to form an opening in said step portion.

2,405,881

ELECTRICAL CONNECTING MEANS AND RADIO SHIELDING MEANS THEREFOR

Jakob R. Frei, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

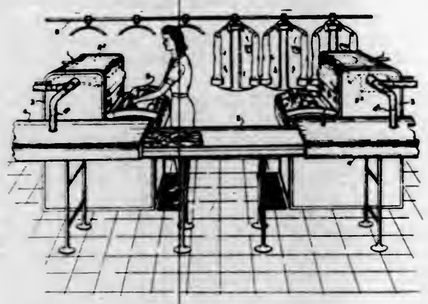
Application May 6, 1941, Serial No. 392,032
14 Claims. (Cl. 174—35)



1. In apparatus of the class described a metallic socket lined with electrical insulating material and having an electrical conductor therein, a radio shielding conduit, means for securing said socket and conduit together in axial alignment with each other, a tube of electrical insulating material removably mounted in said conduit and slidably extending into said socket, said tube having an enlarged annular portion interposed between and in sealing relation with the adjacent ends of said conduit and socket, an in-

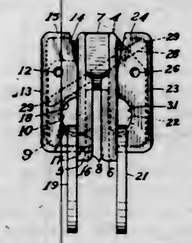
sulated electrical conductor extending through said conduit into said tube, means in said conduit for holding said insulated conductor against substantial axial movement relative thereto, a hollow metallic member filling a portion of the bore in said tube at the end of the latter within said socket, the closed end of said member being adjacent said insulated conductor and having abutting electrical contact therewith, resilient means in said member, a contact plunger slidably mounted in said member and interposed between said resilient means and the conductor in said socket, and cooperable screw threads on said tube and in said conduit, said threads being disengaged when the conduit and tube are assembled to thereby permit limited axial movement of the tube relative to the conduit.

2,405,882
SYSTEM OF PRESSING LAUNDERED ARTICLES
Wallace F. Gayring, Minoa, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application May 26, 1943, Serial No. 488,599
4 Claims. (Cl. 38—3)



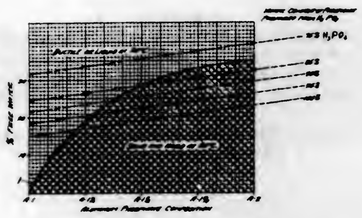
1. The combination with a pressing machine and a conveyer for articles to be pressed on the machine, the pressing machine including heated pressing elements and a heat insulated cabinet enclosing the machine for confining the heat within the cabinet at least during the pressing operation, the conveyer having a hood enclosing a portion of the same, and means for withdrawing the heated air from the cabinet and discharging the same into the hood on the articles carried by the conveyer.

2,405,883
REVERSIBLE AUTOMATIC LOCK SLIDER
Clarence D. Gould, Bronx, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application September 23, 1944, Serial No. 555,412
8 Claims. (Cl. 24—205.5)



1. In a lock slider of the class described, a channeled slider body having spaced wing portions connected at one end by a neck portion, a locking member arranged on one of said wing portions and being movably connected thereto, said locking member having a locking projection carried thereby which extends normally into the channel of said slider body, a member arranged on the other of said wing portions on the opposite side of said slider body and being movably connected thereto, and movable means extending through said slider body between said locking member and said last mentioned member with one end of said means contacting and cooperating with the locking member to one side of its connection with said slider body, and with the opposite end of said means contacting and cooperating with said last mentioned member on the opposite side of its connection with said slider body whereby when either the locking member or the last mentioned member is moved about its respective connection with said slider body, the locking projection will be moved out of said slider channel to unlocked position.

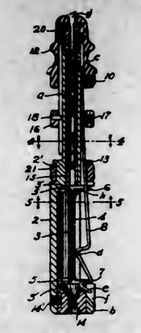
2,405,884
METHOD OF PREPARING ALUMINUM PHOSPHATES
Herbert H. Greger, Washington, D. C.
Application July 13, 1943, Serial No. 494,526
11 Claims. (Cl. 23—105)



1. A method of preparing water soluble aluminum phosphates solid at room temperature comprising dispersing reactible compounds consisting on the one hand of finely divided aluminum hydrate and on the other hand of a compound selected from the group consisting of phosphorus pentoxide and phosphoric acid separately in separate portions of an inert nonaqueous liquid, mixing said dispersions, adding water, the reactants being present in the mixture of dispersions in the ratio ranging between 1 Al to $3(PO_4)$ and 2 Al to $3(PO_4)$, controlling the water content of the reaction product through the water content of the reactants, added water and reduction of evaporation to form a product having a water content low enough to render the product solid at room temperature but high enough to maintain the water soluble property thereof, and separating the aluminum phosphate formed.

2,405,885
YARN TENSIONING DEVICE
Eugene C. Gwaltney, Biddeford, and Henry R. Marsh, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application February 15, 1945, Serial No. 578,031
8 Claims. (Cl. 242—149)

1. A yarn tension device comprising a supporting body through which the yarn is guided, plates supported in said body for pressing the yarn between them as it passes through said body, a leaf spring pressing said plates together, said spring extending in a direction generally parallel to said plates and means for adjusting the pressure so exerted on the yarn comprising a slide bearing



against said spring and mounted on said body for adjustment lengthwise of the spring.

2,405,886
NEW PRODUCTS
Albert F. Hardman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application May 2, 1942, Serial No. 441,527
1 Claim. (Cl. 260—566)

A brightly-colored compound having the formula: $OH.C_{10}H_6.CH:N.R.N:CH.C_{10}H_6OH$ where R is methylene di(p-phenylene) and in which $OH—C_{10}H_6—$ is alpha-(2-hydroxy naphthyl).

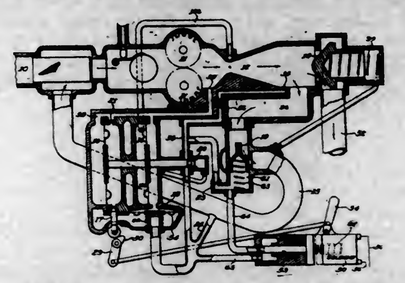
2,405,887
REFRIGERATOR DOOR OPENER
Carl Hoffman, De Kalb, Ill.
Application September 5, 1944, Serial No. 552,789
1 Claim. (Cl. 268—72)



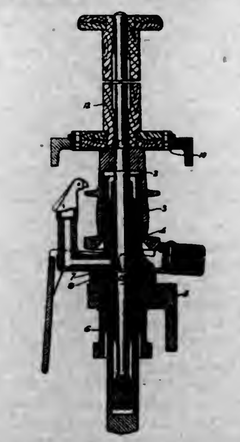
A door opening device, comprising a door frame and door, a plate mounted on the outer face of the door, a boss carried by the outer face of the plate and extending parallel with the face of the door beyond the edge thereof, a lever having a bolt passing loosely therethrough adjacent one end and screwed into said boss, a lateral pivot bolt carried by the inner end of the lever and parallel with the first mentioned bolt, and a roller carried by said bolt and having a rolling contact with a plate carried by the door frame.

2,405,888
FUEL CONTROL VALVE
George M. Holley, Jr., Grosse Pointe, Mich., assignor to George M. Holley and Earl Holley
Application January 1, 1945, Serial No. 570,942
11 Claims. (Cl. 60—41)

4. In a fluid-operated governor for variable speed engines having a power control means comprising a source of operating fluid, a displacement pump connected thereto, means for driving said pump at a speed proportional to the speed of said engine, a venturi in the outlet from said pump, means responsive to the drop in pressure in said venturi to move said power control means to limit the speed of said engine, a fixed orifice, a passage connecting said orifice with the pressure side of said pump, a second passage connecting said orifice with a manually variable leakage orifice in series with said first orifice and located in the said outlet, means responsive to the variable drop across said fixed orifice to oppose the means responsive to drop in pressure in said venturi so as to vary the speed of said engine.



2,405,889
SPINDLE ADJUSTING DEVICE
John A. Kennedy, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application November 16, 1943, Serial No. 510,446
6 Claims. (Cl. 57—130)

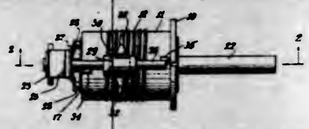


1. In a twister frame, the combination with a spindle rail and a spindle mounted thereon, of means interposed between said rail and the spindle base, operable by rotative movement around the axis of the spindle, for adjusting the height of said spindle.

2,405,890
INDUCTIVE TUNER
Walden H. Kunz, Jackson, Mich., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application May 5, 1944, Serial No. 534,216
2 Claims. (Cl. 171—242)

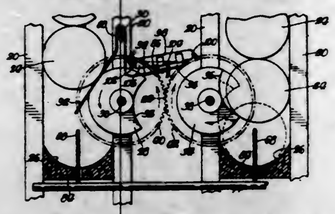
1. A variable inductance device comprising in combination a coil form of circular cross section, a bare helical conductive coil wound thereon, a

rotatable shaft extending axially through said coil form, a trolley rod carried by said shaft adjacent and parallel to said coil form and mounted to be rotated about said coil by said shaft, a contact element integrally formed of a single piece of sheet metal in a substantially symmetrical and dynamically balanced shape, the ends of said element being bent into smooth-surfaced grooved contact nibs engaging the wire of said coil in the grooves therein and the mid-portion of said element being bent into a smooth-surfaced trans-



verse channel which is concave on the opposite face of said element from said grooves and engages the trolley rod, said contact element being biased to produce smoothly sliding and uniformly distributed spring pressure against said coil at said nibs and against said rod at said channel for movement along said rod when said shaft is rotated, a disc mounted on the inner end of said coil form, a spring contact arm attached to said trolley rod having sliding contact means with said disc, and a terminal connected to said disc.

2,405,891
VERTICAL VENDING MACHINE
Harvey T. Larimore, Chicago, Ill., assignor to Kalva Venders, Inc., Chicago, Ill., a corporation of Illinois
Application October 16, 1941, Serial No. 415,249
2 Claims. (Cl. 312—48)



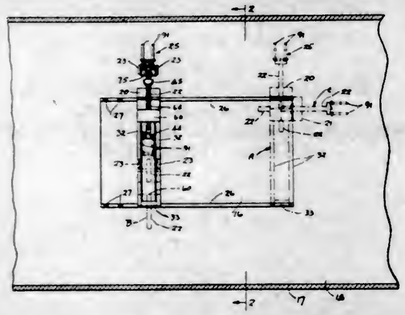
2. In a vending machine for articles, a frame including supporting members for positioning said articles in a stack, one above the other, an elongated sloping delivery trough having its upper end beneath and in substantial vertical alignment with the stack and its lower end extending in substantial vertical alignment with and beyond the stack to a delivery station, a holding and dispensing member mounted rotatably on the frame above the upper end of the trough and adjacent the lower end of the stack, on an axis spaced laterally from the vertical plane of the center of the stack and from the path of travel of the article entering the trough, a recess of arcuate form and less than semi-circular in extent, formed in the outer surface of said member adatped to receive a portion of one of said articles but without any free dropping of the articles, and a motor having the shaft thereof in driving connection with the holding and dispensing member, said member having a progressive rotative position wherein the remaining circumference thereof is moved into supporting relationship with the lowermost article to retain said articles in the stack and a progressive rotational dispensing position whereby the lowermost article is separated from the stack and positioned separately within the recess and passed from the stack to the delivery trough.

2,405,892
INSTRUMENT BEARING
Karl M. Lederer, Newark, and Alexander Dempster, Linden, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application May 10, 1941, Serial No. 392,990
19 Claims. (Cl. 308—159)



7. The process of forming an instrument bearing which comprises shaping one end of a cylindrical body of bearing material to convexly rounded form, forming a bearing recess in and axially of the rounded end, mounting the shaped body in the counterbore of a supporting member, and bending the outer end of the supporting member over the rounded end of the shaped body to retain the shaped body within the supporting member and to impart a rounded outer surface to the portion of the supporting member surrounding the shaped body.

2,405,893
CARGO TRUCK
Robert F. Leftwich, Bronxville, N. Y.
Application November 25, 1944, Serial No. 565,095
11 Claims. (Cl. 214—15)

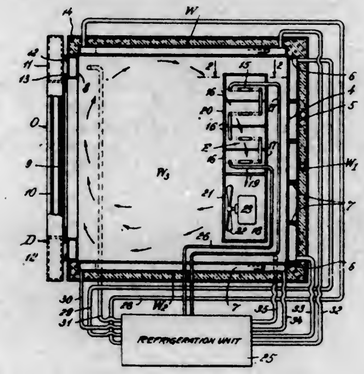


1. A cargo truck for a hatch opening of a ship, comprising a bridge structure for spanning said hatch opening, means for movably supporting said bridge structure for moving to various positions along said hatch opening, a platform movably mounted for moving to various positions along said bridge structure, a turntable mounted on said platform, a beam extendably and retractably mounted on said turntable, wheels on the outer end of said beam for travelling along the floor surrounding said hatch opening, and a lift mounted on the outer end of said beam and having a fork upon which loads may be lowered and raised in a vertical direction, whereby said lift may assume a position at any point of said hatch opening.

2,405,894
COMPOUNDS
Joy G. Lichty, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application June 6, 1942, Serial No. 446,055
2 Claims. (Cl. 260—487)

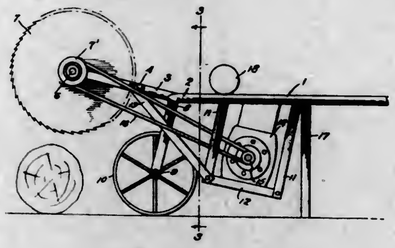
1. Cyclohexyl α,α,β-trihalo propionates.

2,405,895
LOW-TEMPERATURE CHAMBER REFRIGERATION
Erwin Lodwig, Franklin Square, N. Y., assignor to Mobile Refrigeration, Inc., New York, N. Y., a corporation of New York
Application May 28, 1942, Serial No. 444,800
6 Claims. (Cl. 62—102)



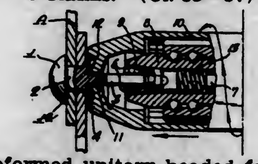
1. In apparatus of the type described, in combination, a closed chamber having a window therein, at least two evaporators disposed at spaced points in said chamber and having surfaces exposed to the atmosphere therein, means for supplying refrigerant to said evaporators whereby their exposed surfaces are cooled, and means including an air propelling device for circulating some of the air within said chamber successively over said evaporators and said window and at a higher velocity over one of said evaporators than over the window and the other evaporator, whereby frost accumulations are removed from the window and from the evaporator over which the air is circulated at the higher velocity.

2,405,896
PORTABLE PULPWOOD SAW
Leon H. Mathis, Lake City, Fla.
Application September 24, 1943, Serial No. 503,703
2 Claims. (Cl. 143—43)



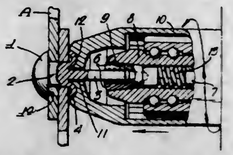
1. A single wheel support portable saw comprising a framework including handle members joined medially of the structure to a forwardly extending arm formed with a bifurcated forward end to receive the saw, a downwardly extending fork member connected at its upper end to the frame at the junction of the arms and saw supporting member, a single supporting wheel journalled in the fork member and means for supporting a motor below and medial of the handle members.

2,405,897
RIVET
Samuel Milone and Charles W. Rothfeld, Philadelphia, Pa.
Application March 31, 1943, Serial No. 481,350
6 Claims. (Cl. 85—37)



1. A preformed unitary headed fastening element comprising a shank of predetermined diameter less than said head and including a coaxially extending neck portion of reduced diameter and a radially spaced concentric straight cylindrical shoulder flange portion, the base of the flange portion and the base of the neck portion being in a common plane cross-sectionally of said shank in axially spaced relation to said head.

2,405,898
METHOD OF SETTING RIVETS
Samuel Milone and Charles W. Rothfeld, Philadelphia, Pa.
Original application March 31, 1943, Serial No. 481,350. Divided and this application October 30, 1945, Serial No. 625,578
2 Claims. (Cl. 218—29)

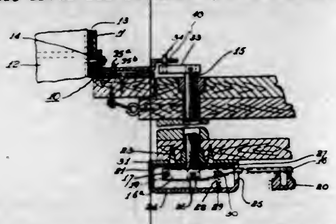


1. A method of riveting which comprises providing a solid unitary headed rivet having an integral solid shank portion to extend through an opening in a structure to be riveted and including a coaxially extending plain surfaced neck portion of reduced diameter and a radially spaced concentric shoulder flange portion arranged both integral with said shank portion and adapted to project beyond the structure with the neck portion projecting beyond said flange portion, and setting the rivet after inserting the same through said opening by gripping the plain surface of and applying an outward pull on the projecting neck portion of the rivet and simultaneously engaging the radially spaced concentric shoulder flange and circularly spinning and thereby axially rolling the same outwardly over and onto the adjacent surface of the structure to be riveted.

2,405,899
LOUVER OPERATING MEANS
Joseph Otti, Oklahoma City, Okla.
Original application August 26, 1941, Serial No. 408,312. Divided and this application November 16, 1942, Serial No. 465,664
5 Claims. (Cl. 268—96)

1. In an operating mechanism for controlling pivoted louvers of a window awning, a pivotally mounted pintle connected to and along one of said louvers; a crank arm mounted on one end of said pintle; a shaft adapted to be journalled in a window frame and in a position spaced from said pintle; a crank lever on the outer end of said shaft; a link having one end portion operatively connected to said pintle crank arm and having a separable operative connection with

said crank lever whereby rotation of said shaft will normally rock said pintle; a grippable pivotal lever on the other end of said shaft; and releasable locking means mounted adjacent said grippable lever for selectively holding said lever



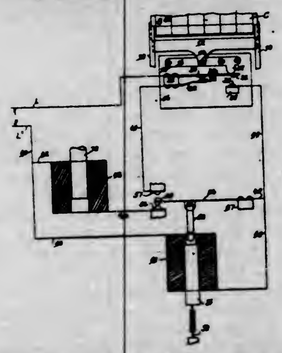
in desired positions, said separable operative connection between said link and said crank lever providing for quick outward movement of said window awning away from said crank lever of said shaft to permit access to the window adjacent to which said awning is mounted.

2,405,900
STAY FOR CORSETS
Isidore Panes, New York, N. Y.
Application November 15, 1944, Serial No. 563,498
2 Claims. (Cl. 2—36)



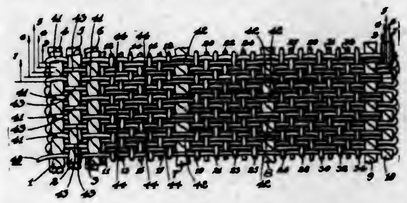
1. A stay of the character described comprising a strip of resilient material, and means only on each end portion of said strip for performing the following functions, namely, securing the stay, reenforcing the securement, and preventing the ends of the stay from puncturing the material to which the stay is secured, said means consisting of textile material folded upon itself secured to and completely covering said end portion leaving the remaining intermediate portion of the strip uncovered and providing an edge portion extending longitudinally of the stay and adapted to receive stitching.

2,405,901
HAMMER CONTROL MECHANISM
Donald J. Patterson, Los Angeles, Calif., assignor to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts
Application October 23, 1944, Serial No. 559,967
6 Claims. (Cl. 234—43)



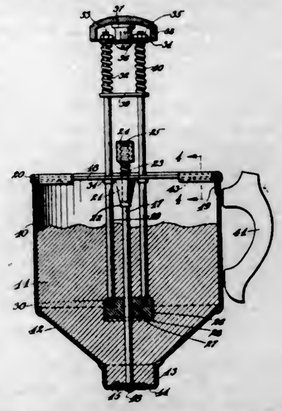
1. In a time recorder, a hammer-actuating solenoid, a circuit therefor, a holding solenoid effective to break said hammer circuit, a circuit for said holding solenoid, and a card-depressed switch member having a first contact in the holding solenoid circuit only and a second contact in the holding solenoid circuit and in the hammer solenoid circuit jointly, said two contacts being closed and opened successively by said switch member, with the contact which is in the holding solenoid circuit only closing first and opening last.

2,405,902
SLIDE FASTENER STRINGER TAPE
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application February 2, 1942, Serial No. 429,231
6 Claims. (Cl. 139—384)



1. In a slide fastener tape, a plurality of longitudinally extending warps including one or more of relatively large size along the outer edge of the tape and weft threads extending across the tape and interwoven therewith, the interlacings or crossings of said weft threads being more concentrated in the region of said large cords resulting in a greater pile-up of the weft threads along that edge than in the other portions of the tape, whereby a curve is imparted to the tape without resort to abonormal tensions or twists of the warp threads.

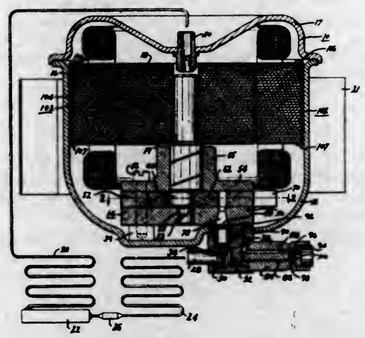
2,405,903
DOUGHNUT FORMING MACHINE
Peter S. Premas, Chicago, Ill.
Application March 17, 1944, Serial No. 526,937
6 Claims. (Cl. 107—52)



1. A doughnut forming machine comprising a receptacle for the doughnut dough and having a bottom discharge throat, a closure disc in the lower end of the throat, a plunger in the receptacle designed to be slidable in the throat and normally adapted to engage the dough in the receptacle at a point spaced above the throat, means to depress the plunger into the latter to

the extent of confining the dough in said throat, other means actuated by the action of the plunger to lower said disc from the throat before the plunger enters the same to cause the confined dough to issue about said lower end in a surrounding mass, said plunger being further depressible to lower said disc further and meet the same, the outer bottom edge of the plunger contacting the edge of the disc, and said bottom edge being beveled to substantial sharpness to cut said mass cleanly from the disc.

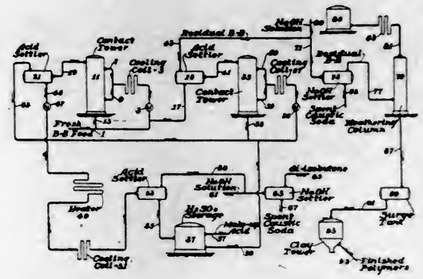
2,405,904
METHOD OF MAKING MOTOR COMPRESSOR UNITS
Francis I. Rataiczak, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application May 28, 1941, Serial No. 395,645. Divided and this application December 11, 1942, Serial No. 468,615
7 Claims. (Cl. 29—156.4)



1. The method of manufacturing a motor-compressor unit which comprises forming a substantially cup-shaped casing, securing motor-stator mounting means to the inner-wall of the cup-shaped casing, forcing a sizing die within said motor-stator mounting means so as to deform said mounting means so as to establish a motor-stator receiving opening of proper size, forming compressor mounting surfaces adjacent the bottom of said casing perpendicular to the motor-stator mounting surfaces, positioning a motor-stator on said motor-stator mounting surfaces, passing a compressor assembly through the central opening of said motor-stator, positioning the compressor assembly on said compressor mounting surfaces by means of a positioning fixture, clamping said compressor assembly in fixed relationship to said compressor mounting surfaces while being held by said positioning fixture, removing the positioning fixture, and thereafter inserting a compressor operating shaft and motor-rotor.

2,405,905
REMOVAL OF SULPHUR COMPOUNDS FROM HYDROCARBON POLYMERS
Hans Schindler, Evanston, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application August 6, 1943, Serial No. 497,622
5 Claims. (Cl. 260—677)

1. The process of recovering a hydrocarbon polymer suitable for use in gasoline comprising contacting an olefinic C_4 fraction, obtained in the stabilization of cracked gasoline, with 65–70% sulphuric acid at temperatures of 20–45° C. and at pressures sufficient to maintain said C_4 fraction in liquid phase, separating residual C_4 fraction from the reaction mixture, neutralizing free



acid contained therein, fractionally distilling the neutralized fraction to separate polymer from lower boiling normally gaseous hydrocarbons and contacting said polymer with siliceous solid adsorptive material at temperatures below the vaporization temperature of said polymer.

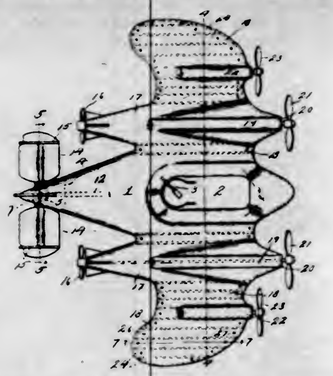
2,405,906
TURBINE OIL
Hans Schindler, Evanston, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application May 21, 1943, Serial No. 487,970
12 Claims. (Cl. 252—59)

1. The method of preparing an oxidation and rust inhibitor for mineral turbine oils comprising recovering from used aqueous caustic alkali solution resulting from the treatment of low-boiling hydrocarbon distillates containing sulfur and phenolic compounds with aqueous caustic alkali solution, by neutralization with an acidic substance the entire portion of "acid oil" substantially free from constituents soluble in aqueous solution of approximately pH 8, extracting said portion of the "acid oil" with a hydrocarbon solvent boiling below the boiling range of the extractable portion of the "acid oil" and separating the extract from the solvent.

2,405,907
ELEVATING AND STEERING MECHANISM FOR AIRCRAFT
Herman Schmitt, Sheboygan, Wis.
Application April 14, 1943, Serial No. 483,018
1 Claim. (Cl. 244—88)

An elevating and steering mechanism for the tail end of an airplane fuselage, said mechanism comprising a pivotally mounted block in a bifurcation in said tail end and vertically pivoted on the longitudinal center of the airplane, a transverse rotatable shaft mounted in said block and extending to opposite sides of the tail, elevating members carried by said shaft at opposite sides of the tail end, vertically disposed steering members carried by said elevating members, a gear carried by said shaft within the pivoted block, a worm gear within the block and meshing with said gear and adapted to rotate said shaft, a flexible operating shaft connected to said worm gear, a gear segment carried by said block above

the axis of the transverse shaft, a gear meshing with said segment and adapted to rotate the



block on its pivot and a flexible shaft for rotating said last named gear.

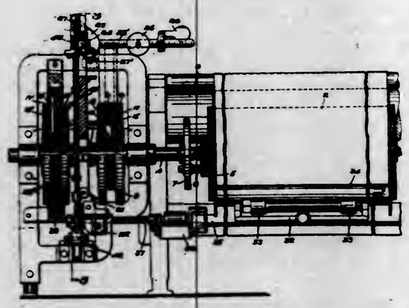
2,405,908

BEAM DRIVING MECHANISM FOR SLASHERS

Arthur E. Silcox, Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine

Application April 18, 1944, Serial No. 531,583

9 Claims. (Cl. 28—39)



1. In a slasher having means for supporting a loom beam for the winding thereon of the sized yarn, driving means for said beam comprising two friction mechanisms both operatively associated with said beam to revolve it, said mechanisms being so organized as to operate by variations in the degree of frictional slip to drive said beam throughout different speed ranges, one higher than the other, and mechanism for automatically shifting the drive from one of said mechanisms to the other at an intermediate point in the building of the yarn body on said beam.

2,405,909

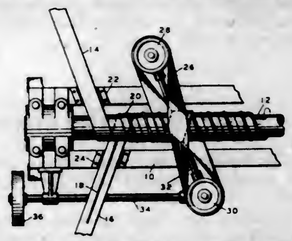
METHOD OF PRODUCING THREADED SPIRAL TUBES

Roscoe B. Smith, Wilmington, Del., and Minor W. Latimer, Joplin, Mo., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application August 22, 1942, Serial No. 455,756

2 Claims. (Cl. 93—94)

1. A method for the production of threaded spiral tube on a continuous spiral tube machine which comprises continuously feeding strip material onto a rigid mandrel and into engagement with a driven endless belt which is obliquely trained around said mandrel and which winds and advances the strip material in the form of a spiral tube; and simultaneously therewith continuously feeding a cord and strip material provided with adhesive over the spiral tube and into engagement with the driven endless belt, said cord being disposed between said spiral tube and



said strip material provided with adhesive and forming a thread-like protrusion upon engagement with the driven endless belt which firmly presses the strip material provided with adhesive to the spiral tube and permits the area covering the cord to protrude thereby forming a thread-like protrusion on the exterior surface of the spiral tube.

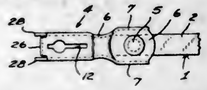
2,405,910

WINDSHIELD WIPER

Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana

Application November 27, 1943, Serial No. 511,945

6 Claims. (Cl. 15—250)



5. In a windshield wiper, the combination with a wiper arm member, of a blade-carrying connector member mounted thereon with capacity for angular adjustment relative to said arm member, a female structure provided on one of said members and having laterally disposed abutment portions, a friction element disposed in said female structure and having portions engageable with said abutment portions at points remote from the center of said element, and fastener means for holding the members in fixed relationship under pressure exerted by the fastener means whereby said friction element may serve to retard pivotal movement between said members.

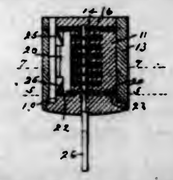
2,405,911

CYLINDER LOCK

Gunnar E. Swanson, New Britain, Conn.

Application May 25, 1945, Serial No. 595,805

4 Claims. (Cl. 70—364)



1. A lock having a barrel with a locking bar slot, a cylinder with a locking bar slot rotatable in the barrel, tumblers carried by the cylinder, and a locking bar yieldingly retained in the cylinder slot and adapted to be moved into the barrel slot, said locking bar retaining means being comprised of bow springs that embrace the cylinder with their ends shaped to so bear on the locking bar that when the locking bar is pressed outward into the barrel slot the springs will be torsionally twisted and when the locking bar is relieved of outward pressure the torsional force of the spring will move the locking bar out of the barrel slot.

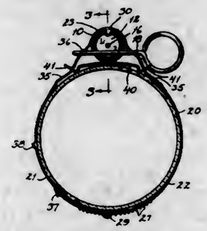
2,405,912

DETONATOR CLAMP

George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio

Application August 26, 1942, Serial No. 456,158

2 Claims. (Cl. 24—20)



1. A clamp for holding a comparatively small object against a comparatively large object comprising a strip of sheet material of substantially U-shape with the ends overlapping, and the intermediate portion forming a crown, interlocking ratchet means on the two end portions to hold the device closed in various positions, the side portions of the U being inwardly directed adjacent the crown to define two adjacent regions, one smaller than the other, and said side portions adjacent the junction of the two regions being provided with openings, and a leaf spring extending across the junctions of the two regions and having projections at its ends occupying the openings.

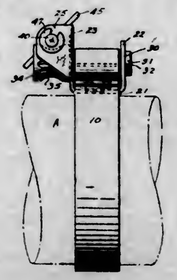
2,405,913

FASTENING DEVICE

George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application March 13, 1944, Serial No. 526,172

4 Claims. (Cl. 24—19)



3. In a clamp having a flexible band, tightening means comprising a channel shaped bracket defining spaced side portions, an intermediate portion adapted to anchor one end of the band, and a pair of spaced outwardly projecting flanges on one of said side portions, a spindle journaled in said side portions adapted for anchoring the other end of the band, a gear on said spindle, and a driving gear mounted in said spaced flanges in mesh with said gear on the spindle for rotating the spindle.

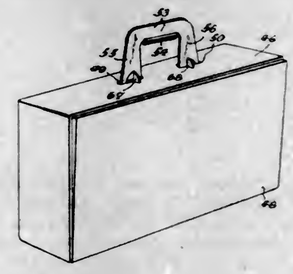
2,405,914

FASTENING MEANS

Robert Van Rosen, New York, N. Y.

Application July 11, 1944, Serial No. 544,387

2 Claims. (Cl. 229—52)



1. A receptacle comprising two telescoping members hinged at one side, registering slots through the walls opposite the hinged sides, a handle having arms extending through the slots, folding wings articulated at the sides of the arms within the receptacle, auxiliary wings foldable on the first-mentioned wings and means to limit the amount the arms extend through the slots.

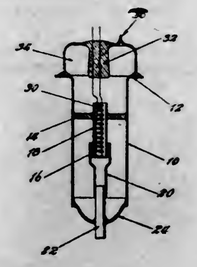
2,405,915

ELECTRON TUBE AND METHOD OF MAKING THE SAME

John S. Vansant, Huntingdon Valley, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

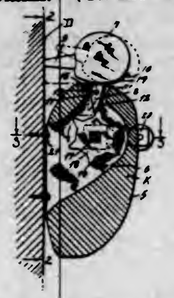
Application December 15, 1943, Serial No. 514,409

7 Claims. (Cl. 250—27.5)



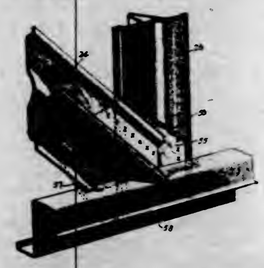
1. In an electron tube, an envelope comprising a tubular conductive member and end closures therefor composed of non-conductive material, a hollow cathode electrode within said envelope in substantially coaxial relation to the tubular conductive member, conductive means connecting said electrode to said member, a conductive element extending through one of the end closures of the tube envelope, and a second hollow electrode attached to and supported by said element, said second hollow electrode being longitudinally adjacent to and in substantial co-axial alignment with said first hollow electrode and having a portion closely encircling a portion of said first electrode.

2,405,916
DOOR KNOCKER
William Neuhaus, Neillsville, Wis.
Application October 25, 1944, Serial No. 560,231
1 Claim. (Cl. 116—167)



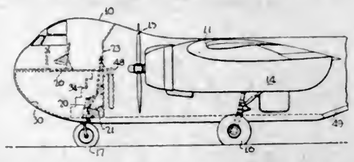
A door knocker shaped to simulate a woodpecker comprising a body having an interior cavity, means carried by the forward face of the body for connecting the same to a support, said cavity opening out through the upper end of the body, a transversely extending shaft rotatably carried by the body extending through the cavity, means for rotating the shaft, a wheel having radially extending points secured to the shaft for rotation therewith, a head on the upper end of the body having a depending neck extending into the cavity and having its lower end arranged in the path of the wheel points, a pivot pin rockably mounting the neck intermediate its ends on the body, leaf springs disposed on opposite sides of the neck having their forward ends secured to the upper end of the body and their rear ends curved upwardly and rearwardly into engagement with the head in rear of the pivot for normally urging the head forwardly, and a striking bill carried by said head and projecting forwardly therefrom.

2,405,917
STRUT ELEMENT AND JOINT
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 28, 1943, Serial No. 473,809
4 Claims. (Cl. 189—37)



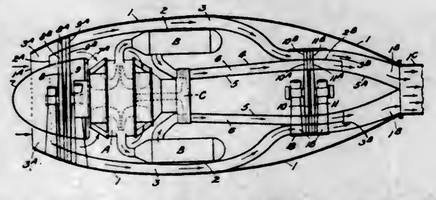
1. A truss comprising spaced chord members and connecting struts, said chord members having aligned webs to transmit loads in a common truss stress plane, said struts each being of closed box-section including a flanged U-shaped member and a plate-like cap member secured thereto through the flanges, the box-section strut being secured to the webs of said chord members on one side of and closely adjacent said stress plane with the cap member located adjacent the plane and the U-shaped member extending away from the said plane and the plate-like cap member being formed of relatively much thicker stock than the U-shaped member, whereby to bring the center of mass of the box-section strut closely adjacent the truss stress plane while at the same time providing great column strength in resistance to bending and to provide great overall lightness with great strength and stability.

2,405,918
AIRPLANE CONSTRUCTION
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 13, 1944, Serial No. 535,461
14 Claims. (Cl. 244—119)



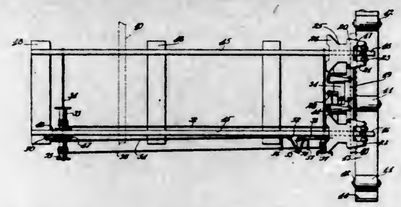
14. In an airplane, in combination, a housed-in structure longitudinally of streamlined form, an internal frame element of the structure adjacent one longitudinal terminus of said structure, a landing gear connected structurally to said element and when the structure is borne upon the gear subjecting the element to a bending moment which tends to distort it and divert it from its true plane, together with a longitudinally extending moment-counteracting tie member tying the portion of said element subjected to the bending moment to the adjacent terminus of said structure.

2,405,919
FLUID FLOW ENERGY TRANSFORMER
Frank Whittle, Rugby, England, assignor to Power Jets (Research and Development) Limited, London, England
Application October 23, 1942, Serial No. 463,140
In Great Britain March 2, 1940
8 Claims. (Cl. 60—35.6)



1. A propulsion system including a combustion engine as prime mover, first energy transforming means comprising first turbine means and first impeller means driven by said first turbine means, means for leading a first air stream to drive said first turbine means, and means for leading a second air stream to said first impeller means for deriving energy therefrom, means for supplying the said second stream to said combustion engine, second energy transforming means comprising further turbine means and further impeller means driven by the said further turbine means, means for leading the exhaust gases from the combustion engine to drive said further turbine means, means for leading the first air stream through the said further impeller means for deriving energy therefrom, and means for delivering said exhaust gases and said first air stream rearwardly from the system for reaction propulsion.

2,405,920
CONVEYING APPARATUS
Love Winston, Chicago, Ill.
Application June 19, 1944, Serial No. 541,053
12 Claims. (Cl. 198—20)



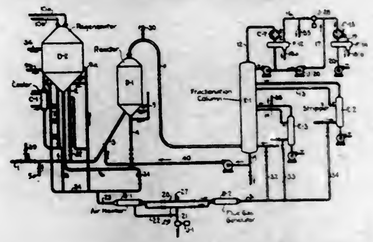
1. A conveying apparatus for bars issuing from a steel mill comprising a runway, a series of rollers freely journaled along the runway and ridden by each bar to advance the same over the runway, a pair of tracks extending laterally of the runway and entering the same with inclined terminal portions, and a carriage initially inclinedly positioned on said terminal portions and adapted to be drawn by propulsion means from said terminal portions to ride on said tracks, the carriage having rear and frontal rollers to ride the tracks, and base extensions of said terminal portions on said runway forming stops for the rear rollers and contributing to the support of the carriage when it is in the inclined position.

2,405,921
NECKERCHIEF DISPLAY KNOT AND METHOD OF MAKING
George Wipper and Vivian Francis Wipper, Jacksonville, Fla.
Application July 19, 1943, Serial No. 495,340
5 Claims. (Cl. 2—149)



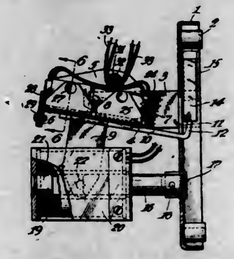
4. The method of producing a display knot for neckerchiefs including the following steps and wherein a piece of material is cut on the square and then folded into the form of a tube with the material wrong side out by sewing the meeting edges of the material together, then turning this tube right side out, also folding a larger piece of material into the form of a tube with the material wrong side out by sewing the meeting edges of this material together, then folding said first mentioned tube with the right side out upon itself, with the edges of the open ends of said tube in meeting engagement to ultimately form a draper tube for supporting a neckerchief when in use, then placing said draper tube in this incomplete condition inside the second mentioned tube in its wrong side out condition and with the open ends of the first mentioned tube adjacent one of the open ends of said second mentioned tube, then sewing these adjacent ends together, then turning the second mentioned tube right side out and with the completed draper tube thus attached to the second mentioned tube, then folding said second mentioned tube upon itself and over the draper, tube with the edges of the remaining open end of said second mentioned tube in a position adjacent the sewed connection between the draper tube and the second mentioned tube, and then sewing these open end edges of the second mentioned tube at the connection point between the draper tube and the second mentioned tube to form a completed facing tube for the display knot and with the draper tube concealed therein.

2,405,922
FLUID CATALYST CATALYTIC CRACKING
Joseph B. Wyman, Roxana, Ill., and Henry D. Loeb, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 1, 1945, Serial No. 597,000
2 Claims. (Cl. 196—52)



1. In bringing on stream a fluid catalyst cracking plant comprising a reactor system comprising a fluid catalyst reactor and a fractionation system comprising a fractionating column, said fractionation column communicating directly with said reactor, the combination of steps comprising heating the reactor by passing hot air therethrough and simultaneously heating the fractionating column by passing hot flue gas substantially free of oxygen therethrough, withdrawing said gases as a common stream from a point between said reactor and said fractionating column, thereby confining said gases to the respective systems, and continuing the passage of said gases until the temperatures in the systems are sufficiently high to allow the introduction of superheated steam without substantial condensation to water.

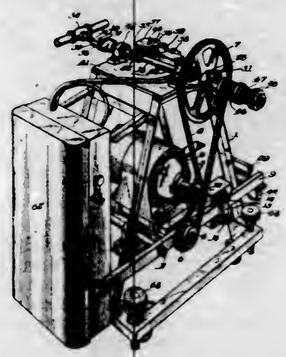
2,405,923
MERCURY SWITCH RELAY
Earle G. Henry, Wilmette, Ill., assignor to Buckley Music System, Inc., a corporation of Illinois
Application November 18, 1942, Serial No. 465,989
2 Claims. (Cl. 200—112)



1. In an electromagnetic switch device, an upright base, a cradle for a mercury switch mounted on the front side of the base for rocking movements above a horizontal axis parallel to the base, a weight cooperating with the cradle to swing it in one direction, a solenoid below and hinged to the cradle, and a core of magnetic material hinged at one end to the base and extending at the other end into the solenoid to cause the solenoid to be drawn toward the base

and the cradle to be rocked in the direction opposite to the aforesaid direction when the solenoid is energized, the hinge axes of the solenoid and core being so disposed that the solenoid and core remain coaxial during shifting movements of the solenoid along the core.

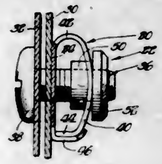
2,405,924
VALVE TESTING MACHINE
William A. Marshall, Jr., Oak Park, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application September 26, 1942, Serial No. 459,865
7 Claims. (Cl. 73—7)



1. A valve testing machine for actuating a valve stem, comprising in combination a framework, driving means, a sprocket driven by said driving means, a pivotable arm mounted on the said framework, an idler sprocket rotatably journaled on the pivotable arm, a weight adjustably movable along the pivotable arm, a switch for reversing the direction of the said driving means operable by the predetermined movement of the said pivotable arm, a larger driven sprocket mounted on the said framework, a chain extending between the idler sprocket and the larger sprocket and driven by the sprocket driven by the said driving means, a rotatable shaft adapted to actuate a valve by rotation of its stem, a sleeve telescopically mounted on the said shaft and over which the large sprocket is rotatably journaled, an annular flange cooperating with the said sleeve, a collar attached to the said shaft and adapted to abut the said annular flange of the sleeve, a shear pin transversely mounted relative to the said collar and the said flange, a cam attached to said large sprocket journally mounted on the said sleeve, a cam follower adapted to engage a splined portion of the said sleeve whereby the cam follower may move axially with relation to the said sleeve, means on the said shaft for maintaining the said cam follower in resilient relationship with the said cam.

2,405,925
FASTENING DEVICE
Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 23, 1944, Serial No. 523,501
7 Claims. (Cl. 151—38)

1. A fastening device for accommodating a screw element comprising a base section having a screw receiving aperture, a resilient section spaced from and bridging said base section, spacing members extending transversely between said sections to hold said sections in separated relation, and a nut member supported as a unit by said resilient section in spaced relation to the plane of said base section and non-rotatable with respect to said resilient section, said nut having its internally threaded aperture in alignment with

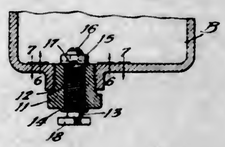


the aperture of the base for receiving a fastening screw element, whereby the tightening of a screw and nut will cause said resilient section to be stressed laterally toward the base section spaced therefrom so as to increase frictional contact between complementary thread convolutions.

2,405,926
PRESSURE SENSITIVE ADHESIVE
Rudolf J. Priepke, North Brunswick Township, Middlesex County, John H. Emigh, Milltown, and Charles Olson Pike, Highland Park, N. J., assignors to Industrial Tape Corporation, a corporation of New Jersey
No Drawing. Application November 5, 1943, Serial No. 509,150
8 Claims. (Cl. 106—172)

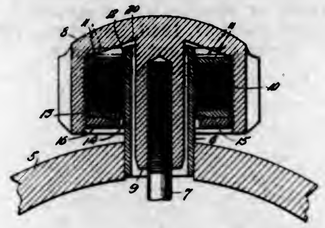
1. A solvent spreadable, internally strong pressure-sensitive adhesive composition comprising a predominating portion of a condensation product of castor oil with a maleic half ester of a monohydric alcohol having a boiling point above 150° C., and a relatively minor portion of a compatible cohesive agent, said condensation product being in a semi-solid state and having a torsional moment measurement within the range 80,000 and 800,000 dyne centimeters, as measured at a temperature of 25° C. on a rotational plastometer of the character described.

2,405,927
DRAIN FITTING
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application October 11, 1944, Serial No. 558,213
5 Claims. (Cl. 138—42)



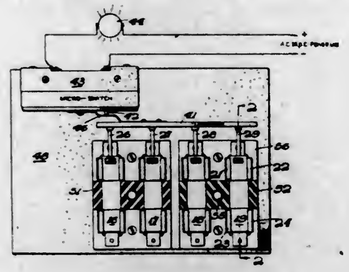
1. Means for draining a chamber in a member, which comprises a body having a long smooth bore, a long cylindrical element fitting said bore and having multiple screw threads on the same, parts on the ends of said element to hold it against removal from said bore; said parts each having a transverse dimension greater than the diameter of said bore, the upper part being shaped to leave the upper ends of the valleys in the screw threads open, and there being normally an outlet from the lower ends of said valleys between the lower of said parts and the bottom of said member.

2,405,928
ADJUSTABLE WATERTIGHT AND DUSTTIGHT WATCH CROWN
Walther Feurer, Jackson Heights, N. Y., assignor, by mesne assignments, to Feurer Bros., Inc., New York, N. Y., a corporation of New York
Application December 9, 1944, Serial No. 567,493
2 Claims. (Cl. 58—90)



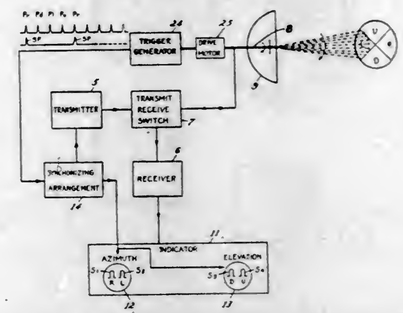
1. A water-tight and dust-tight crown construction comprising in combination with a watchcase having a fixed projecting tube, a hollow crown having an internally screw threaded annular side wall surrounding the tube and a central, stem engaging post freely entered in the tube, inner and outer guides positioned in the crown to surround the tube in both the setting and the winding positions of the crown, an annular packing compressiby held between said inner and outer guides in position engaging the annular side wall of the crown and the outer surface of the tube, the outer one of said guides being free of both the tube and the crown, and an annular nut adjustably engaged with said screw threaded side wall of the crown, over said outer guide, said nut surrounding but being free of said tube.

2,405,929
ELECTRICAL APPARATUS
Gerson E. Wald, Far Rockaway, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application June 9, 1943, Serial No. 490,196
2 Claims. (Cl. 177—311)



1. In an electrical apparatus, a plurality of fuses operable to limit the current flow in several circuits, each fuse comprising a fusible element and means for axially displacing one end of said element in response to fusion thereof, an auxiliary circuit containing an electrically energized signal device, a normally open switch disposed in operative relationship to said fuses and operable to control said circuit, and means coacting with said switch and the fusible elements of all of said fuses for causing said switch to close and energize said signal device when any of said fusible elements are displaced axially, said last named means comprising an arm mounted for rocking movement and carrying a plurality of members aligned with, and engageable by any one of the fusible elements of said fuses.

2,405,930
SYNCHRONIZING ARRANGEMENT FOR LOCATOR SYSTEMS
Harold Goldberg, Irondequoit, and Walter C. Thompson, Rochester, N. Y., assignors to Stromberg-Carlson Company, Rochester, N. Y., a corporation of New York
Application February 7, 1944, Serial No. 521,461
13 Claims. (Cl. 250—11)

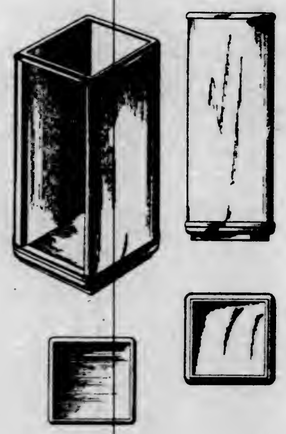


1. In a radio locator, an antenna recurrently movable over a given excursion path for transmitting exploring pulses and for intercepting said exploring pulses when reflected back thereto, a motor for moving said antenna along said path, a receiver of intercepted exploring pulses, said receiver including a display tube and a trigger circuit, said trigger circuit being operated in response to trigger pulses for generating control waves to govern said display tube whereby said tube displays images of targets located by said exploring pulses, generator mechanism driven by said motor to generate a plurality of trigger pulses for initiating the several operations of said trigger circuit during each excursion of said antenna, means including said generator mechanism for generating a supplemental pulse in the course of the excursions of said antenna and in proper timing relation to a given position of said antenna, and means responsive to a supplemental pulse for synchronizing the trigger circuit with respect to a given position of said antenna along said path.

DESIGNS

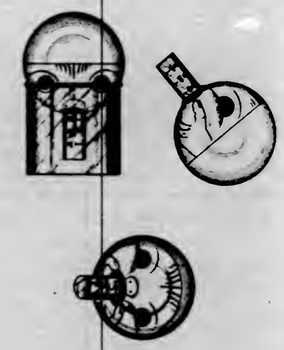
AUGUST 13, 1946

145,374
DESIGN FOR A SHOWER CABINET
Thomas F. Anderson, Cleveland, Ohio, assignor to The Sanymetal Products Co. Inc., Cleveland, Ohio, a corporation of Ohio
Application October 20, 1945, Serial No. 123,061
Term of patent 14 years
(Cl. D4—4)



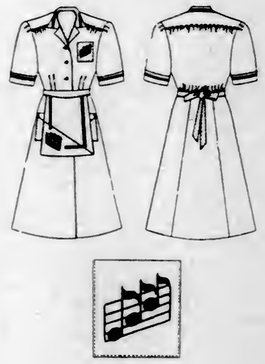
The ornamental design for a shower cabinet, as shown.

145,375
DESIGN FOR AN HOURGLASS UNIT
Peter Artst, New York, N. Y.
Application February 2, 1946, Serial No. 126,173
Term of patent 3½ years
(Cl. D42—7)



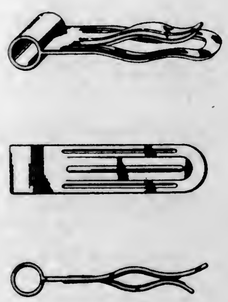
The ornamental design for an hourglass unit, substantially as shown and described.

145,376
DESIGN FOR A UNIFORM
Arthur M. Berger, New York, N. Y.
Application April 27, 1946, Serial No. 129,063
Term of patent 3½ years
(Cl. D3—26)



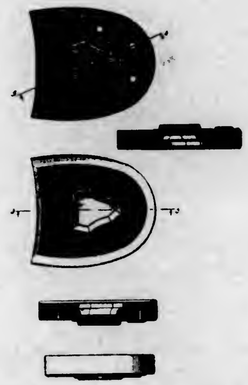
The ornamental design for a uniform, substantially as shown.

145,377
DESIGN FOR A CLOTHESPIN OR THE LIKE
Harry M. Broadwell, Bristol, Conn.
Application January 19, 1946, Serial No. 125,732
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin or the like, as shown.

145,378
DESIGN FOR A RUBBER HEEL
Earl Bunting, Winchester, Va.
Application May 1, 1946, Serial No. 129,181
Term of patent 14 years
(Cl. D7—5)



The ornamental design for a rubber heel, as shown.

145,379
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 17, 1946, Serial No. 129,799
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,380
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 17, 1946, Serial No. 129,800
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,381
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 17, 1946, Serial No. 129,801
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,382
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 28, 1946, Serial No. 130,175
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,383
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 28, 1946, Serial No. 130,176
Term of patent 3½ years
(Cl. D92—26)



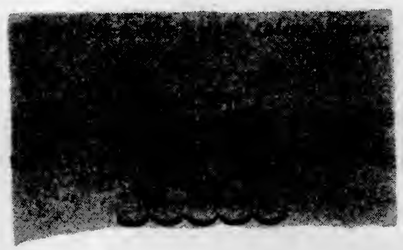
The ornamental design for a towel or similar article, substantially as shown and described.

145,384
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 28, 1946, Serial No. 130,177
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,385
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 28, 1946, Serial No. 130,179
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,386
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 28, 1946, Serial No. 130,180
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,387
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 31, 1946, Serial No. 130,287
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,388
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 31, 1946, Serial No. 130,288
Term of patent 3½ years
(Cl. D92—26)



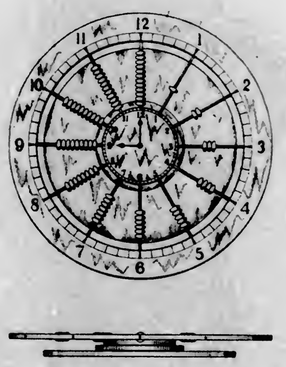
The ornamental design for a towel or similar article, substantially as shown and described.

145,389
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Leah Carpadus, New York, N. Y.
Application May 31, 1946, Serial No. 130,289
Term of patent 3½ years
(Cl. D92—26)



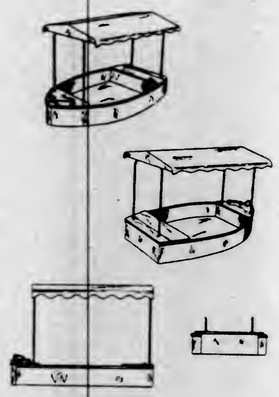
The ornamental design for a towel or similar article, substantially as shown and described.

145,390
DESIGN FOR A CLOCK TOY OR SIMILAR ARTICLE
Charles C. Cohen, New York, N. Y.
Application November 14, 1945, Serial No. 123,726
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a clock toy or similar article, substantially as shown and described.

145,391
DESIGN FOR A SAND BOX
Peter A. Cosme, Chicago, Ill.
Application August 17, 1945, Serial No. 121,439
Term of patent 14 years
(Cl. D34—5)



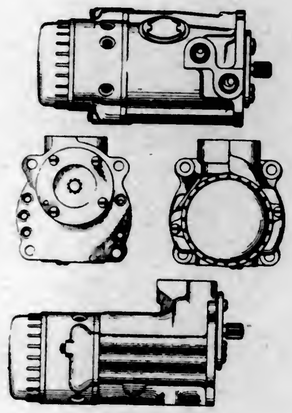
The ornamental design for a sand box, substantially as shown.

145,392
DESIGN FOR A HAND MIRROR
Lillian Farber, Toronto, Ontario, Canada, assignor, by mesne assignments, to Noell Products Company, New York, N. Y., a limited partnership
Application November 19, 1945, Serial No. 123,905
In Canada June 12, 1945
Term of patent 3½ years
(Cl. D86—10)



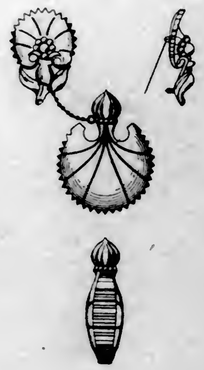
The ornamental design for a hand mirror, as shown and described.

145,393
DESIGN FOR A MECHANICAL LUBRICATOR
Bengt E. Folke, Mamaroneck, and Ralph H. Shepard, New York, N. Y., assignors to Nathan Manufacturing Company, New York, N. Y., a corporation of New York
Application May 1, 1945, Serial No. 119,329
Term of patent 14 years
(Cl. D78—1)



The ornamental design for a mechanical lubricator, substantially as shown.

145,394
DESIGN FOR A COMBINED LAPEL PIN AND PERFUME CONTAINER
Harold Graeter, Sherman, Conn., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application October 9, 1945, Serial No. 122,682.
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a combined lapel pin and perfume container, as shown.

145,395
DESIGN FOR AN INFANT'S TOY FIGURE OR SIMILAR ARTICLE
Richard B. Grosvenor, Piqua, Ohio
Application October 3, 1945, Serial No. 122,474
Term of patent 7 years
(Cl. D34—4)



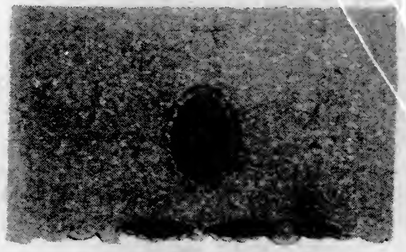
The ornamental design for an infant's toy figure, or similar article, as shown.

145,396
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 17, 1946, Serial No. 129,793
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,397
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 28, 1946, Serial No. 130,145
Term of patent 3½ years
(Cl. D92—26)



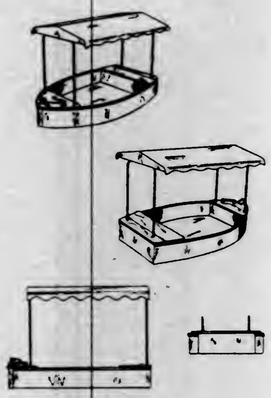
The ornamental design for a towel or similar article, substantially as shown and described.

145,398
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 28, 1946, Serial No. 130,146
Term of patent 3½ years
(Cl. D92—26)



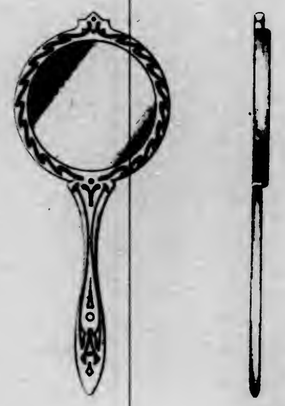
The ornamental design for a towel or similar article, substantially as shown and described.

145,391
DESIGN FOR A SAND BOX
Peter A. Cosme, Chicago, Ill.
Application August 17, 1945, Serial No. 121,439
Term of patent 14 years
(Cl. D34—5)



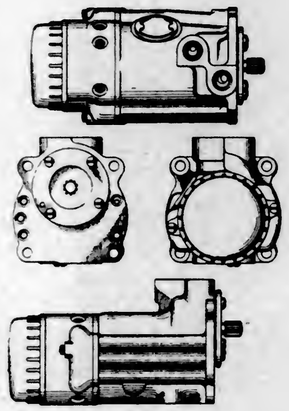
The ornamental design for a sand box, substantially as shown.

145,392
DESIGN FOR A HAND MIRROR
Lillian Farber, Toronto, Ontario, Canada, assignor, by mesne assignments, to Noell Products Company, New York, N. Y., a limited partnership
Application November 19, 1945, Serial No. 123,905
In Canada June 12, 1945
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a hand mirror, as shown and described.

145,393
DESIGN FOR A MECHANICAL LUBRICATOR
Bengt E. Folke, Mamaroneck, and Ralph H. Shepard, New York, N. Y., assignors to Nathan Manufacturing Company, New York, N. Y., a corporation of New York
Application May 1, 1945, Serial No. 119,329
Term of patent 14 years
(Cl. D78—1)



The ornamental design for a mechanical lubricator, substantially as shown.

145,394
DESIGN FOR A COMBINED LAPEL PIN AND PERFUME CONTAINER
Harold Graeter, Sherman, Conn., assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application October 9, 1945, Serial No. 122,682.
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a combined lapel pin and perfume container, as shown.

145,395
DESIGN FOR AN INFANT'S TOY FIGURE OR SIMILAR ARTICLE
Richard B. Grosvenor, Piqua, Ohio
Application October 3, 1945, Serial No. 122,474
Term of patent 7 years
(Cl. D34—4)



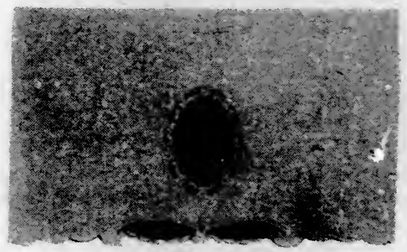
The ornamental design for an infant's toy figure, or similar article, as shown.

145,396
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 17, 1946, Serial No. 129,793
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,397
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 28, 1946, Serial No. 130,145
Term of patent 3¼ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,398
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 28, 1946, Serial No. 130,146
Term of patent 3½ years
(Cl. D92—26)



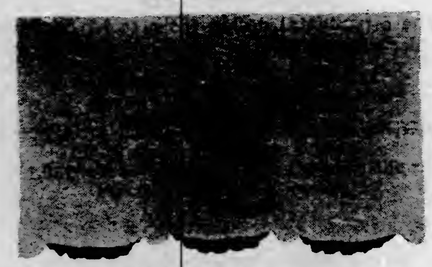
The ornamental design for a towel or similar article, substantially as shown and described.

145,399
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 28, 1946, Serial No. 130,147
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,400
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 31, 1946, Serial No. 130,283
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,401
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 31, 1946, Serial No. 130,284
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a towel or similar article, substantially as shown and described.

145,402
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York. N. Y.
Application May 31, 1946, Serial No. 130.285
Term of patent 3½ years
(Cl. D92—26)



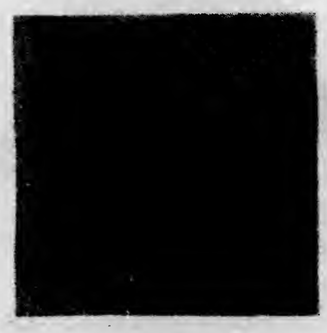
The ornamental design for a towel or similar article, substantially as shown and described.

145,403
DESIGN FOR A TOWEL OR SIMILAR ARTICLE
Albert Lange, New York, N. Y.
Application May 31, 1946, Serial No. 130,286
Term of patent 3½ years
(Cl. D92—26)



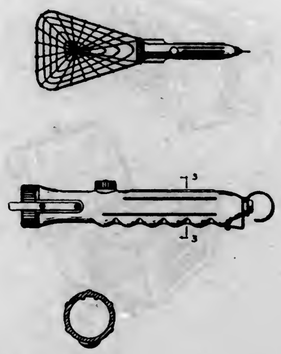
The ornamental design for a towel or similar article, substantially as shown and described.

145,404
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Mary Cresser McGee, Hempstead, N. Y.
Application April 23, 1945, Serial No. 119,163
Term of patent 3½ years
(Cl. D92—26)



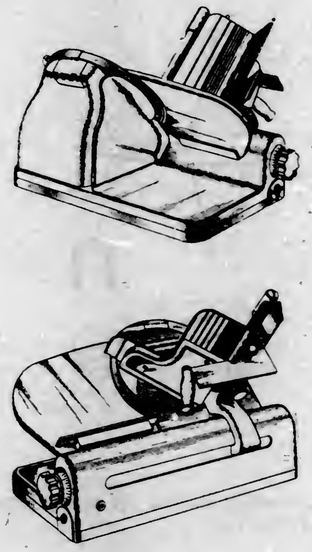
The ornamental design for a tablecloth or similar article, substantially as shown.

145,405
DESIGN FOR A FISHING NET
Melvin J. Meek and Bernard C. Hagquist, South Bend, Ind.
Application September 15, 1945, Serial No. 122,107
Term of patent 14 years
(Cl. D31—4)



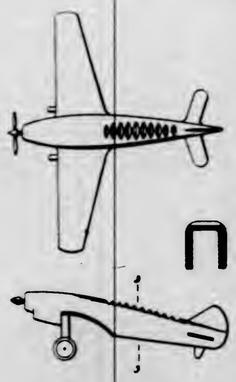
The ornamental design for a fishing net, as shown.

145,406
DESIGN FOR A SLICING MACHINE
Paul H. Meyer, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application March 24, 1945, Serial No. 118,679
Term of patent 14 years
(Cl. D55—1)



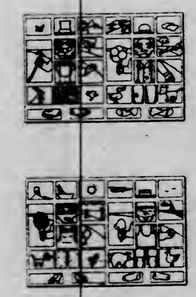
The ornamental design for a slicing machine, as shown.

145,407
DESIGN FOR A TOY AIRPLANE
Jerome J. Miller, Ottoville, Ohio
Application July 27, 1945, Serial No. 121,012
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy airplane, as shown and described.

145,408
DESIGN FOR A SET OF PICTURE GAME PIECES
George Myseis, New York, N. Y.
Application June 18, 1945, Serial No. 120,193
Term of patent 14 years
(Cl. D34—5)



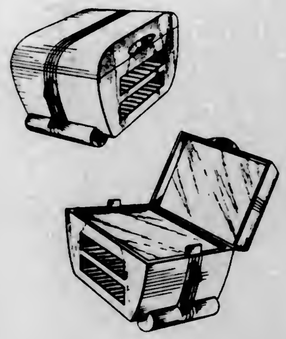
The ornamental design for a set of picture game pieces, substantially as shown.

145,409
DESIGN FOR A SWEATER
Abraham Naidish, New York, N. Y.
Application December 5, 1945, Serial No. 124,384
Term of patent 3½ years
(Cl. D3—4)



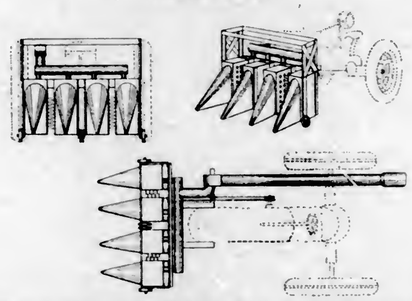
The ornamental design for a sweater, substantially as shown and described.

145,410
DESIGN FOR A COMBINED TOASTER AND HOT PLATE
Theodore D. Nierenberg and George Daelemans, Dayton, Ohio, assignors to Etched Products Corporation, Long Island City, N. Y., a corporation of New York
Application September 6, 1945, Serial No. 121,888
Term of patent 7 years
(Cl. D81—10)



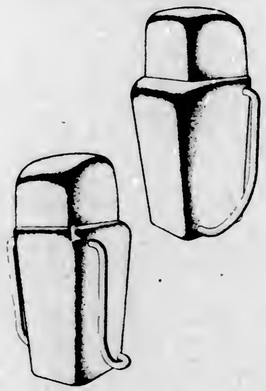
The ornamental design for a combined toaster and hot plate, as shown.

145,411
DESIGN FOR A COTTON HARVESTING MACHINE
William N. Smith, Dallas, Tex.
Application October 1, 1945, Serial No. 122,415
Term of patent 14 years
(Cl. D40—1)

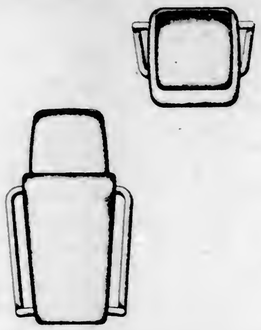


The ornamental design for a cotton harvesting machine, as shown and described.

145,412
DESIGN FOR A MEDICO-SURGICAL CAMERA CASING
Frederick K. Storm, Los Angeles, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application February 12, 1946, Serial No. 126,517
Term of patent 14 years
(Cl. D61—1)



145,412—Continued



The ornamental design for a medico-surgical camera casing, substantially as shown.

145,413
DESIGN FOR A HOODED LIGHT METER
Romulus B. Thomas, Springfield, Ill.
Application March 4, 1945, Serial No. 118,854
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a hooded light meter, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. A. A. Manufacturing Company, Waltham, Mass. Egg candling, grading, and sorting machines. Serial No. 496,591; Aug. 13. Class 26.

Ali, Mohammed, doing business as Royal Indian Cosmetic Co., Brooklyn, N. Y. Hair pomade after-shaving lotion, white cleansing cream, etc. Serial No. 497,359; Aug. 13. Class 6.

Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind. Anthelmintic tablets. Serial No. 497,690; Aug. 13. Class 6.

Aloff, Alexander, doing business as Chicago Packing Company, Chicago, Ill. Smoked dried boneless fish. Serial No. 486,709; Aug. 13. Class 46.

American Medical Instrument Company, New York, N. Y. Surgical dressings, surgical forceps, surgical bandages, etc. Serial No. 490,050; Aug. 13. Class 44.

American Stencil Mfg. Co., Denver, Colo. Duplicating supplies. Serial No. 490,620; Aug. 13. Class 37.

Anderson Box Company, Indianapolis, Ind. Poultry equipment. Serial No. 491,792; Aug. 13. Class 50.

Anderson-Stolz Pharmaceuticals, Inc., Kansas City, Mo. Deodorant and antiseptic in liquid form. Serial No. 498,380; Aug. 13. Class 6.

Anemostat Corporation of America, New York, N. Y. Diffuser type ventilating units. Serial Nos. 483,886–7; Aug. 13. Class 34.

Anodex Laboratories, Inc., Ventnor City, N. J. Topical surface anesthetic. Serial No. 489,309; Aug. 13. Class 6.

Arcelay, J. O. Garcia, doing business as Licoreria Garcia, Mayaguez, P. R. Cordials. Serial No. 494,770; Aug. 13. Class 49.

Arctic Feather & Down Co.: *See*—
Bauer, Eddie.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Ladies' handbags and shoulder bags. Serial No. 499,096; Aug. 13. Class 3.

Arms, Leland J., San Francisco, Calif. Sound recordings. Serial No. 496,754; Aug. 13. Class 21.

Arrowhead Rubber Company, Vernon, Calif. Prefabricated duct sections. Serial No. 491,794; Aug. 13. Class 34.

Astoria Products Company: *See*—
Mims, William J.

Autotron Company, The: *See*—
Gieseke, Werner A.

Barton Chemical Co., Chicago, Ill. Oxidizing agents. Serial No. 496,684; Aug. 13. Class 6.

Basic Refractories, Inc., Cleveland, Ohio. Cementitious and moldable refractory preparations. Serial No. 483,604; Aug. 13. Class 12.

Bauer, Eddie, doing business as Arctic Feather & Down Co. Quilted garments. Serial No. 468,938; Aug. 13. Class 39.

Beau Brummel Polish Corp., Brooklyn, N. Y. Shoe polish. Serial No. 494,649; Aug. 13. Class 4.

Becton, Dickinson & Company, Rutherford, N. J. Device used for the collection of blood specimens. Serial No. 493,946; Aug. 13. Class 44.

Bemis Bro. Bag Company, St. Louis, Mo. Waterproof bags. Serial No. 490,920; Aug. 13. Class 2.

Bemis Bro. Bag Company, St. Louis, Mo. Fabric bags and sacks. Serial No. 491,056; Aug. 13. Class 2.

Bocchino, Stanley R., doing business as Davis Soap Company, San Francisco, Calif. Soap and mechanics' cleanser. Serial No. 482,194; Aug. 13. Class 4.

Borden Company, The, New York, N. Y. Vaginal suppositories. Serial No. 498,389; Aug. 13. Class 6.

Brooks, J. B., & Co. Ltd., Birmingham, England. Trunks, portmanteaus, traveling cases, etc. Serial No. 486,885; Aug. 13. Class 3.

Brown, W. G., doing business as Vigoray Ozone Generator Company, Seattle, Wash. Electro-therapy machines. Serial No. 490,633; Aug. 13. Class 44.

Capital City Products Co., The, Columbus, Ohio. Oleomargarine. Serial No. 499,044; Aug. 13. Class 46.

Carborose Company, Brooklyn, N. Y. Fungicidal preparation. Serial No. 489,100; Aug. 13. Class 6.

Cenol Company, Inc., Chicago, Ill. Rat baits. Serial No. 497,992; Aug. 13. Class 6.

Chicago Faucet Company, The, Chicago, Ill. Aerators attached to water faucets. Serial No. 493,743; Aug. 13. Class 13.

Chicago Packing Company: *See*—
Aloff, Alexander.

Christie, Clowes M., doing business as Latex Co., Los Angeles, Calif. Synthetic rubber base paint. Serial No. 489,563; Aug. 13. Class 16.

Cindex Company: *See*—
Deans, John.

Clinton Industries, Inc., St. Louis, Mo. Peanut bars. Serial No. 498,585; Aug. 13. Class 46.

Clinton Industries, Inc., Chicago, Ill. Candy. Serial No. 498,593; Aug. 13. Class 46.

Cloverdale Spring Company, Baltimore, Md. Non-alcoholic, non-cereal, maltless beverages. Serial No. 499,943; Aug. 13. Class 45.

Commerce Manufacturing Company, Inc., Commerce, Ga. Overalls and dungarees. Serial No. 497,070; Aug. 13. Class 39.

Consolidated Distilleries Inc., East Taunton, Mass. Whiskey. Serial No. 499,318; Aug. 13. Class 49.

Continental Can Company, Inc., New York, N. Y. Can making machines. Serial No. 480,164; Aug. 13. Class 23.

Cornell Wood Products Company, Milwaukee, Wis. Laminated industrial boards and wallboards. Serial No. 494,312; Aug. 13. Class 12.

Crissman, John R., Detroit, Mich. Spring mounted foot devices. Serial No. 490,932; Aug. 13. Class 22.

Cryns Products, Inc., Chicago, Ill. Cake liner in grease form. Serial No. 496,203; Aug. 13. Class 46.

Cryns Products, Inc., Chicago, Ill. Food for yeast. Serial No. 496,205; Aug. 13. Class 46.

Davis Soap Company: *See*—
Bocchino, Stanley R.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Power transmission and conveyor belts. Serial No. 484,120; Aug. 13. Class 35.

Daz-L-Dent Laboratories: *See*—
Wolff, William E.

Deans, John, doing business as Cindex Company, Eddystone, Pa. Preparations for the treatment of colds and coughs. Serial No. 494,891; Aug. 13. Class 6.

Defiance Alloyed Products Co., The, Defiance, Ohio. Diaphragm compressors. Serial No. 466,324; Aug. 13. Class 23.

De Pasco, Cerro, Copper Corporation, New York, N. Y. Various metals. Serial No. 492,033; Aug. 13. Class 14.

Desmond's, Inc., Los Angeles, Calif. Men's and boys' suits, overcoats, topcoats, etc. Serial No. 498,122; Aug. 13. Class 39.

Do All Company, The, Des Plaines, Ill. Metal working and forming dies, molding dies, cutting tools, etc. Serial No. 487,178; Aug. 13. Class 23.

Dudley, Carl, Beverly Hills, Calif. Series of exclusively pictorial motion picture films. Serial No. 493,484; Aug. 13. Class 26.

Electro-Physical Laboratories, Inc., New York, N. Y. Electrocardiographs. Serial No. 483,767; Aug. 13. Class 44.

Empire Steel Castings, Inc., Reading, Pa. Steel castings. Serial No. 493,437; Aug. 13. Class 14.

Engelman Gardens Association, The, Elsa, Tex. Fresh citrus fruits and fresh vegetables. Serial No. 484,736; Aug. 13. Class 46.

Fawcett Publications, Inc., Greenwich, Conn. Monthly publication. Serial No. 494,788; Aug. 13. Class 38.

Feldstein, Zadek Co., Inc., New York, N. Y. Powder for use as a rinse. Serial No. 487,831; Aug. 13. Class 6.

Finkl, A., & Sons Company, Chicago, Ill. Steel. Serial Nos. 494,487–9; Aug. 13. Class 13.

Fishburger Company, The: *See*—
Manning, James G.

Flower Foods, Inc., Maywood, Ill. Scripts for monologues, dialogues, dramatic sketches, and radio broadcasts. Serial No. 492,829; Aug. 13. Class 38.

Follsain Metals Ltd., Lutterworth, near Rugby, England. Unwrought and partly wrought base metals and their alloys. Serial No. 477,603; Aug. 13. Class 14.

Freece-Larsen, Inc., Norristown, Pa. Flags. Serial No. 470,073; Aug. 13. Class 50.

Freel, John A., doing business as Michigan Specialty and Manufacturing Co., Bay City, Mich. Frenum guides, circumcision clamps, surgical scissors, tonsilotomes, and speculums. Serial No. 482,484; Aug. 13. Class 44.

Fry, J. M., Company: *See*—
Fry, Justin M.

Fry, Justin M., doing business as J. M. Fry Company, Richmond, Va. Anti-oxidation compound. Serial No. 497,661; Aug. 13. Class 6.

Furniture Development Co., Los Angeles, Calif. Sectional divans. Serial No. 491,084; Aug. 13. Class 32.

General Chemical Company, New York, N. Y. Normally gaseous halogenated hydrocarbons; normally gaseous chemicals. Serial Nos. 496,696–7; Aug. 13. Class 6.

General Floorcraft, Inc., New York, N. Y. Electric floor cleaning and maintenance machines and parts thereof. Serial No. 495,025; Aug. 13. Class 21.

General Plastics Manufacturing Co.: *See*—
Schatz, Louis W.

Gibson Refrigerator Company, Greenville, Mich. Electric cooking ranges and deep well cookers. Serial No. 489,734; Aug. 13. Class 21.

Gieseke, Werner A., doing business as The Autotron Company, Danville, Ill. Electronic inspection machine. Serial No. 484,628; Aug. 13. Class 26.

Glidden Company, The, doing business as A. Wilhelm Company, Cleveland, Ohio, and Reading, Pa. Bubble forming composition. Serial No. 490,754; Aug. 13. Class 6.
Globe Valve Corporation, Delphi, Ind. Metallic tub fillers and valves. Serial No. 493,347; Aug. 13. Class 13.
Gluck, Joseph, New York, N. Y. Rayon piece goods. Serial No. 491,642; Aug. 13. Class 42.
Goldberg, Ernest W., doing business as Golde Manufacturing Company, Chicago, Ill. Still picture projectors, slide and strip film projectors and parts thereof, etc. Serial Nos. 485,214–15; Aug. 13. Class 26.
Golde Manufacturing Company: *See*—
Goldberg, Ernest W.
Golden Arrow Toiletries, New York, N. Y. Unfilled vanity cases, unfilled compacts, and unfilled lipstick holders. Serial No. 490,809; Aug. 13. Class 2.
Golden Arrow Toiletries, New York, N. Y. Face soaps, bath soaps, and shaving creams. Serial No. 495,169; Aug. 13. Class 4.
Golden Arrow Toiletries, New York, N. Y. Face soaps, bath soaps, and shaving creams. Serial No. 495,287; Aug. 13. Class 4.
Golden Arrow Toiletries, New York, N. Y. Face soaps, bath soaps, and shaving creams. Serial Nos. 495,375–6; Aug. 13. Class 4.
Golden Arrow Toiletries, New York, N. Y. Face soaps, bath soaps, and shaving creams. Serial No. 495,468; Aug. 13. Class 4.
Goldsmith Brothers Manufacturing Co. Inc., New York, N. Y. Ladies' handbags. Serial No. 494,968; Aug. 13. Class 3.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Tire repair materials. Serial No. 490,241; Aug. 13. Class 35.
Great Lakes Varnish Works, Inc., Chicago, Ill. Ready-mixed paint. Serial No. 486,767; Aug. 13. Class 16.
Grigg, George E., Jr., Burlingame, Calif. Hand soap. Serial No. 493,118; Aug. 13. Class 4.
Hanfling, K., & Son, Chicago, Ill. Leather shoe soles. Serial No. 482,487; Aug. 13. Class 39.
Haynes, John E., doing business as Texarkana Candy Company, Texarkana, Tex. Candy. Serial No. 482,626; Aug. 13. Class 46.
Hearst Corporation, The, New York, N. Y. Newspaper section or department. Serial No. 495,670; Aug. 13. Class 38.
Hirsch, Clement L., doing business as Packers Canning Company, Los Angeles, Calif. Canned dog food. Serial No. 495,139; Aug. 13. Class 46.
Hobby Hill, Chicago, Ill. Pull toys having a plurality of removable colored pegs. Serial No. 484,022; Aug. 13. Class 22.
Hobby Hill, Chicago, Ill. Toys in the form of animals. Serial No. 484,024; Aug. 13. Class 22.
Holcomb, J. I., Mfg. Co., Indianapolis, Ind. Automotive and the like shampoo material. Serial No. 495,295; Aug. 13. Class 4.
Holmes-Darst Coal Corporation, Knoxville, Tenn. Coal. Serial No. 493,005; Aug. 13. Class 1.
Horton & Converse, Los Angeles, Calif. Preparations used in the treatment of spasmodic cough, hiccough, whooping cough, etc. Serial No. 493,871; Aug. 13. Class 6.
Hudnut, Richard, New York, N. Y. Pamphlets comprising a course of exercises and beauty treatments. Serial No. 480,658; Aug. 13. Class 38.
Hudson American Corporation, New York, N. Y. Marine radio telephone units and parts thereof. Serial Nos. 493,963–5; Aug. 13. Class 21.
Huntington Laboratories, Inc., Indianapolis, Ind. Insecticide. Serial Nos. 498,141–2; Aug. 13. Class 6.
Intner, William, Company, Inc., New York, N. Y. Bed springs, studio couches, divans, and folding beds. Serial No. 491,757; Aug. 13. Class 32.
Irresistible, Inc., New York, N. Y. Men's colognes. Serial No. 494,847; Aug. 13. Class 6.
Katz, Joseph M., Pittsburgh, Pa. Stationary. Serial No. 489,179; Aug. 13. Class 37.
Kaye, David, doing business as Kaye Laboratories, Brooklyn, N. Y. Vitaminic preparations. Serial No. 494,793; Aug. 13. Class 6.
Kaye Laboratories: *See*—
Kaye, David.
Keach, Charles B., doing business as Kemo Textile Products Co., Providence, R. I. Washing powders. Serial No. 495,127; Aug. 13. Class 4.
Kemo Textile Products Co.: *See*—
Keach, Charles B.
Ken Products: *See*—
Rosenberg Brothers.
Koret of California, Inc., San Francisco, Calif. Girls' and women's skirts, jackets, outer shorts, etc. Serial No. 478,633; Aug. 13. Class 39.
Kresge, S. S., Company, Detroit, Mich. Hosiery. Serial No. 498,288; Aug. 13. Class 39.
Lacy Oil Tool Company, Los Angeles, Calif. Air balanced actuating heads for deep well pumps. Serial No. 494,753; Aug. 13. Class 23.
La France Dry Cleaners, Youngstown, Ohio. Dry cleaning preparation. Serial No. 487,681; Aug. 13. Class 4.
Lancome S. A., Paris, France. Perfumes and rouges. Serial No. 491,851; Aug. 13. Class 6.
Lancome S. A., Paris, France. Perfumes and rouges. Serial No. 491,853; Aug. 13. Class 6.
Latex Co.: *See*—
Christie, Clowes M.
Leonardo Furniture Co. Incorporated, New York, N. Y. Living room, dining room, and bedroom furniture. Serial No. 485,916; Aug. 13. Class 32.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial Nos. 495,057–8; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,066; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,069; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,076; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,078; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,300; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495, 303; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,309; Aug. 13. Class 4.
Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 495,312; Aug. 13. Class 4.
Levinsohn Bros. Co. Inc., New York, N. Y. Clothing. Serial No. 482,168; Aug. 13. Class 39.
Licoreria Garcia: *See*—
Arcelay, J. O. Garcia.
Lloyd-Sargent Co.: *See*—
McMath, John N., Co.
Lowe, Joe, Corporation, New York, N. Y. Power driven, endless chain conveyor doughnut coolers. Serial No. 489,670; Aug. 13. Class 23.
Maltine Company, The, New York, N. Y. Antacid for the control of gastric acidity. Serial No. 499,064; Aug. 13. Class 6.
Manning, James G., doing business as The Fishburger Company, Gardner, Kans. Canned fish bait. Serial No. 489,228; Aug. 13. Class 22.
Marsh, Floyd R., doing business as Marsh Fur Farm, Portland, Oreg. Live mink. Serial No. 469,960; Aug. 13. Class 1.
Marsh Fur Farm: *See*—
Marsh, Floyd R.
Mattison, Raymond J., doing business as Sun-Bird Packing Co., Ltd., Arcadia, Calif. Canned citrus juice. Serial No. 496,092; Aug. 13. Class 46.
Maxing Products Co., New York, N. Y. Dolls. Serial No. 482,252; Aug. 13. Class 22.
McKinney, William W., doing business as Telstop Manufacturing Co., Mount Healthy, Ohio. Metal signals for rural mail boxes. Serial No. 489,335; Aug. 13. Class 2.
McMath, John N., Co., doing business as Lloyd-Sargent Co., New Rochelle, N. Y. Bubble bath preparation, bath crystals, bath oils, etc. Serial No. 494,694; Aug. 13. Class 6.
Merlich, M. C., Port Townsend, Wash. Astringent for diarrhetic ailments in cattle. Serial No. 498,016; Aug. 13. Class 6.
Michigan Specialty and Manufacturing Co.: *See*—
Freel, John A.
Miles, Norval W., Lincoln, Calif. Vitamin preparation. Serial No. 495,978; Aug. 13. Class 6.
Mims, William J., doing business as Astoria Products Company, Birmingham, Ala. Sachet powder, toilet water, deodorant, etc. Serial No. 483,025; Aug. 13. Class 6.
Moore, E. R., Company, Chicago, Ill. Children's garments. Serial No. 491,211; Aug. 13. Class 39.
Morrissey Sales and Service Co.: *See*—
Morrissey, William J., Jr.
Morrissey, William J., Jr., doing business as Morrissey Sales and Service Co., Newark, N. J. Preparation for removing and elimination of soot, scale and sludge, etc., from steam boilers, oil containers, etc. Serial No. 496,037; Aug. 13. Class 6.
Mutation Mink Breeders Association, Elkhorn, Wis. Mink pelts. Serial No. 483,437; Aug. 13. Class 1.
National Polish Company, The, Van Wert, Ohio. Polishing and cleaning preparations. Serial No. 485,881; Aug. 13. Class 16.
National Research Corporation, Boston, Mass. Vacuum or pressure gauge. Serial No. 494,230; Aug. 13. Class 26.
National Screen Door Company, Montgomery, Ala. Screen doors and screen windows. Serial No. 491,497; Aug. 13. Class 12.
National Starch Products, Inc., New York, N. Y. Resin and starch adhesives. Serial No. 490,075; Aug. 13. Class 5.
Nebel, Oscar, Hosiery Corporation, Verona, Va. Hosiery. Serial No. 498,356; Aug. 13. Class 39.
New York World-Telegram Corporation, New York, N. Y. Title for a column containing news of interest to veterans. Serial No. 491,498; Aug. 13. Class 38.
Niagara Alkali Company, Niagara Falls, N. Y. Tetrachloro phthalic anhydride. Serial No. 498,247; Aug. 13. Class 6.
Nipa Laboratories, Limited, London, England. Chemical substances. Serial No. 498,440; Aug. 13. Class 6.
Northwest Packing Co., Portland, Oreg. Canned dog and cat food. Serial Nos. 498,918–19; Aug. 13. Class 46.

Northwestern Kite Co., Minneapolis, Minn. Toy kites. Serial No. 498,022; Aug. 13. Class 22.
Packers Canning Company: *See*—
Hirsch, Clement L.
Paint Engineers, Incorporated, New York, N. Y., and Hawthorne, N. J. Fungus inhibiting and impregnating chemicals. Serial No. 491,996; Aug. 13. Class 6.
Palomino Sportswear Company, Los Angeles, Calif. Men's sportswear. Serial No. 498,166; Aug. 13. Class 39.
Parfums Charbert, Inc., New York, N. Y. Gentlemen's toiletries. Serial No. 494,571; Aug. 13. Class 6.
Parfums D'Artimon: *See*—
Wilde, John P.
Paula Products, New York, N. Y. Miniature toy furniture sets and toy houses. Serial No. 497,737; Aug. 13. Class 22.
Peerless Photo Products, Inc., New York, N. Y. Developing, fixing, and transferring bath chemicals. Serial No. 488,971; Aug. 13. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Wearing apparel. Serial No. 468,732; Aug. 13. Class 39.
Phillips Petroleum Company, Bartlesville, Okla. Polishing cloths. Serial No. 468,735; Aug. 13. Class 42.
Picture Book Fashions, Omaha, Nebr. Girls' (from infants to teen age inclusive) dresses, cloth coats, pinafores, etc. Serial No. 489,825; Aug. 13. Class 39.
Pitman-Moore Co.: *See*—
Allied Laboratories, Inc.
Plastron, Inc., New York, N. Y. Costume bags, garment bags, lingerie bags, etc. Serial No. 489,981; Aug. 13. Class 2.
Porter, N., Saddle and Harness Company, Phoenix, Ariz. Martingales. Serial No. 494,978; Aug. 13. Class 3.
Puget Sound Pulp & Timber Co., Bellingham, Wash. Material used as a filler in plastics, etc. Serial No. 487,915; Aug. 13. Class 1.
Puritan Chemical Company, Atlanta, Ga. Chemical preparation. Serial No. 495,987; Aug. 13. Class 6.
Quaker Chemical Products Corporation, Conshohocken, Pa. Emulsions of waxes. Serial No. 494,921; Aug. 13. Class 6.
Raspler, Murray, New York, N. Y. Cravats, neckties, sport shirts, etc. Serial No. 492,396; Aug. 13. Class 39.
Revoc, Inc., New York, N. Y. Cigars, cigarettes, pipe and chewing tobacco. Serial No. 488,371; Aug. 13. Class 17.
Revoc, Inc., New York, N. Y. Tampons, sanitary pads, and sanitary napkins. Serial No. 488,376; Aug. 13. Class 44.
Revon Backing Ring and Fabricating Company: *See*—
Von Ahrens, Robert H.
Riehle, Fred, New York, N. Y. Liquid and cream shampoos. Serial No. 496,924; Aug. 13. Class 6.
Riley, Stephen, Company: *See*—
Riley, Stephen E.
Riley, Stephen E., doing business as Stephen Riley Company, Los Angeles, Calif. Bubble bath preparation. Serial No. 498,460; Aug. 13. Class 6.
Riordan, Harold P., Dallas, Tex. Electrical fire alarm apparatus. Serial No. 492,955; Aug. 13. Class 21.
Rite-Way Products Company, Chicago, Ill. Pulsators for milking machines. Serial No. 484,703; Aug. 13. Class 23.
Rosenberg Brothers, doing business as Ken Products, Boston, Mass. Leather goods. Serial No. 496,163; Aug. 13. Class 3.
Rosenberg, Joseph, Co., Inc., Boston, Mass. Sportswear consisting of slacks, skirts, dresses, etc. Serial No. 496,275; Aug. 13. Class 39.
Rosenstein, Nettie, Inc., New York, N. Y. Perfume and cologne. Serial No. 494,287; Aug. 13. Class 6.
Royal Indian Cosmetic Co.: *See*—
Ali, Mohammed.
Russell-Newman Manufacturing Company, Denton, Tex. Women's and children's panties, vests, bloomers, slips, etc. Serial No. 495,764; Aug. 13. Class 39.
Samuels, L. J., & Co., Inc., Boston, Mass. Men's and young men's suits, topcoats, and overcoats. Serial No. 484,428; Aug. 13. Class 39.
Sanchis, Jose, Newark, N. J. Automatically operated dispensers. Serial No. 495,338; Aug. 13. Class 26.
Schatz, Louis W., doing business as General Plastics Manufacturing Co., South Tacoma, Wash. Plastic containers. Serial No. 470,235; Aug. 13. Class 2.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin and mineral preparation. Serial No. 494,366; Aug. 13. Class 6.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Sedative and antispasmodic suppositories. Serial No. 494,718; Aug. 13. Class 6.
Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides and fungicides. Serial No. 492,342; Aug. 13. Class 6.
Silver & Company: *See*—
Silver, Louis J.
Silver, Louis J., doing business as Silver & Company, San Francisco, Calif. Storage batteries, electric toasters, electric sad irons, etc. Serial No. 487,339; Aug. 13. Class 21.
Simplex Time Recorder Co., Gardner, Mass. Time stamps. Serial No. 495,413; Aug. 13. Class 26.
Smith Brothers, Inc., Poughkeepsie, N. Y. Cough drops. Serial No. 496,735; Aug. 13. Class 6.
Smith, Fred L., Paola, Kans. Insecticides. Serial No. 495,635; Aug. 13. Class 6.
Société à Responsabilité Limitée: Carven, Paris, France. Perfumes. Serial No. 495,415; Aug. 13. Class 6.
Spiegel, J. K., doing business as M. Spiegel Medicine Co., Albany, N. Y. Liniment. Serial No. 494,802; Aug. 13. Class 6.
Spiegel, M., Medicine Co.: *See*—
Spiegel, J. K.
Spring Air Company, Holland, Mich. Mattresses and mattress spring units. Serial No. 491,592; Aug. 13. Class 32.
Springfield Leather Products Company, The, Springfield, Ohio. Leather key holders. Serial No. 483,287; Aug. 13. Class 3.
Star-Peerless Wall Paper Mills, Chicago, Ill. Wall paper. Serial No. 483,095; Aug. 13. Class 37.
Statler Manufacturing Company, Chicago, Ill. Toy pistols. Serial No. 500,634; Aug. 13. Class 22.
Sun Oil Company, Philadelphia, Pa. Plasticizer for rubber. Serial No. 494,371; Aug. 13. Class 3.
Sun-Bird Packing Co., Ltd.: *See*—
Mattison, Raymond J.
Sunspray Beverages, Inc., Long Island City, N. Y. Fresh fruit beverages. Serial Nos. 490,468–9; Aug. 13. Class 45.
Tayton Company, The, Chicago, Ill. Disposable tissues. Serial No. 492,111; Aug. 13. Class 6.
Telstop Manufacturing Co.: *See*—
McKinney, William W.
Texarkana Candy Company: *See*—
Haynes, John E.
Tidy-House Paper Products Inc., Brooklyn, N. Y. Paper place mats, bowl covers, wax-paper, etc. Serial No. 492,749; Aug. 13. Class 37.
Tolis, George, Spencer, Mass. Salve and ointment. Serial No. 491,374; Aug. 13. Class 6.
Trixie Pet Food Co., Englewood, Colo. Pet food. Serial No. 497,511; Aug. 13. Class 46.
United States Gypsum Company, Chicago, Ill. Plastic wall coverings in the nature of paint. Serial No. 495,113; Aug. 13. Class 16.
United States Rubber Company, New York, N. Y. Synthetic rubber material. Serial No. 490,345; Aug. 13. Class 35.
Universal Ribbon Company, New York, N. Y. Ribbons sold by the spool. Serial No. 493,156; Aug. 13. Class 42.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 489,627; Aug. 13. Class 6.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial Nos. 495,639–42; Aug. 13. Class 6.
Valianos Company, The: *See*—
Valianos, John N.
Valianos, John N., doing business as The Valianos Company, assignor to The Valianos Company, San Francisco, Calif. Canned mackerel. Serial No. 497,147; Aug. 13. Class 46.
Vapor Engineering Corporation, Burbank, Calif. Degreasing solvent. Serial No. 498,329; Aug. 13. Class 6.
Verney Fabrics Corporation, New York, N. Y. Piece goods of rayon fibres, cotton, wool, or silk, and of mixtures thereof. Serial No. 480,848; Aug. 13. Class 42.
Verney Fabrics Corporation, New York, N. Y. Piece goods of rayon fibres, cotton, wool, or silk, and mixtures thereof. Serial No. 480,850; Aug. 13. Class 42.
Vigoray Ozone Generator Company: *See*—
Brown, W. G.
Viscuso, Vincent, McKeesport, Pa. Healing salve. Serial No. 474,683; Aug. 13. Class 6.
Von Ahrens, Robert H., doing business as The Revon Backing Ring and Fabricating Company, Denver, Colo. Welding backing rings. Serial No. 488,839; Aug. 13. Class 13.
Voris Laboratories, The: *See*—
Voris, Louis R.
Voris, Louis R., doing business as The Voris Laboratories, Hagerstown, Md. Rust removing chemical composition. Serial No. 497,828; Aug. 13. Class 6.
Washington Creamery Company, Seattle, Wash. Canned boned turkey and broth. Serial No. 498,872; Aug. 13. Class 46.
Waugh Equipment Company, New York, N. Y. Apparatus for measuring magnetic fields. Serial No. 491,535; Aug. 13. Class 26.
Wegener's Inc., Detroit, Mich. Non-alcoholic, non-cereal, maltless beverages. Serial No. 500,152; Aug. 13. Class 45.
Weiner, Martin, New York, N. Y. Piece goods—to wit, rayon and nylon piece goods. Serial No. 488,840; Aug. 13. Class 42.
Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. X-ray apparatus. Serial No. 487,294; Aug. 13. Class 26.
Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. X-ray apparatus. Serial No. 492,410; Aug. 13. Class 26.

West Virginia Pulp and Paper Company, New York, N. Y. Bond paper. Serial No. 484,286; Aug. 13. Class 37.
Wilde, John P., doing business as Parfums D'Artimon, New York, N. Y. Perfume, toilet water, and lotion vegetale. Serial Nos. 498,560–1; Aug. 13. Class 6.
Wilhelm, A., Company: *See*—
Glidden Company, The.
Winthrop Chemical Company, Inc., New York, N. Y. Flour bleach. Serial No. 498,264; Aug. 13. Class 6.
Wolff, William E., doing business as Daz-L-Dent Laboratories, Kansas City, Mo. Tooth powder. Serial No. 495,561; Aug. 13. Class 6.
Wullschleger & Co. New York, N. Y. Fabrics in the piece. Serial No. 487,453; Aug. 13. Class 42.
Wyman, Anthony J., Orange, N. J. Golf balls, golf bags, and wrist band grips. Serial No. 470,325; Aug. 13. Class 22.
Young, Alexander, Distilling Co., Philadelphia, Pa. Liqueur. Serial No. 497,762; Aug. 13. Class 49.
Younghusband, James L.: *See*—
Yuill, Anna-Jean.
Yuill, Anna-Jean, assignor to James L. Younghusband, Chicago, Ill. Tampons. Serial No. 499,304; Aug. 13. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Abernathy, Ernest H., Publishing Company, Inc., Atlanta, Ga. Monthly magazine. 422,895; Aug. 13. Class 38.
Acme Brick Company, Fort Worth, Tex. Air-setting refractory mortar or cement. 422,903; Aug. 13. Class 12.
Acme Watch Case Co., New York, N. Y. Bracelets and watch bracelets. 217,701; renewed Sept. 7, 1946. O. G. Aug. 13. Class 28.
Alan Baby Products Co.: *See*—
Eskind, Morris.
Alice Frock Co., Oakland, Calif. Women's and children's wearing apparel. 422,738; Aug. 13; Serial No. 477,087; published Apr. 2, 1946. Class 39.
Allied Manufacturing & Trading Co., Pittsburgh, Pa. Boots, shoes, slippers, etc. 422,745; Aug. 13; Serial No. 479,160; published Apr. 16, 1946. Class 39.
Allied Plastics Company, Los Angeles, Calif., assignor to Allied Plastics Company. Compacts. 422,750; Aug. 13; Serial No. 480,491; published May 28, 1946. Class 2.
American Brake Shoe Company, New York, N. Y. Switch rods. 422,784; Aug. 13; Serial No. 490,048; published May 14, 1946. Class 14.
American Chain & Cable Company, Inc., New York, N. Y., and Bridgeport, Conn. Lawn mowers. 422,862; Aug. 13. Class 23.
American Encaustic Tiling Company, Inc.: *See*—
American Encaustic Tiling Co. Ltd.
American Encaustic Tiling Co. Ltd., to American Encaustic Tiling Company, Inc., New York, N. Y. Tiles and ceramic ware. 45,389; re-renewed Aug. 15, 1946. O. G. Aug. 13. Class 12.
American Encaustic Tiling Co. Ltd., to American Encaustic Tiling Company, Inc., New York, N. Y. Tiles and ceramic ware. 45,425; re-renewed Aug. 15, 1946. O. G. Aug. 13. Class 12.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Shaving cream, face and bath soaps. 422,797; Aug. 13; Serial No. 492,024; published Apr. 30, 1946. Class 4.
Arista Foundations, New York, N. Y. Girdles and corsets. 422,786; Aug. 13; Serial No. 490,623; published Apr. 16, 1946. Class 39.
Art Steel Sales Corporation, New York, N. Y. Filing cabinets. 422,836; Aug. 13; Serial No. 497,160; published May 28, 1946. Class 32.
Associated Knitted Outerwear Mills, Inc., New York, N. Y. Men's, boys', and children's underwear; and knitted outerwear. 422,785; Aug. 13; Serial No. 490,520; published May 7, 1946. Class 39.
Atlas Powder Company, Wilmington, Del. Wood filler. 422,794; Aug. 13; Serial No. 491,450; published Apr. 16, 1946. Class 16.
Auburn Foundry, Inc., Auburn, Ind. Oil burning furnace. 422,867; Aug. 13. Class 34.
Auburn Foundry, Inc., Auburn, Ind. Stoker furnace. 422,868; Aug. 13. Class 34.
Auto Arc-Weld Manufacturing Co., The, Cleveland, Ohio. Arc welding rods. 422,783; Aug. 13; Serial No. 489,929; published May 14, 1946. Class 14.
Bakelite Corporation, to Bakelite Corporation, New York, N. Y. Ornamentation simulating beaded designs on cotton, silk, etc. 210,748; renewed Mar. 23, 1946. O. G. Aug. 13. Class 42.
Bakelite Corporation, to Bakelite Corporation, New York, N. Y. Ornamentation simulating beaded designs on cotton, silk, etc. 210,827; renewed Mar. 23, 1946. O. G. Aug. 13. Class 42.
Baker Clothes, assignor to Baker Clothes, Inc., Philadelphia, Pa. Men's suits, sport coats, and trousers. 422,741; Aug. 13; Serial No. 478,739; published Aug. 7, 1945. Class 39.
Baker Clothes, Inc.: *See*—
Baker Clothes.
Beardsley's, J. W., Sons, New York, N. Y., to J. W. Beardsley's Sons, Newark, N. J. Salted and boneless fish. 28,690; re-renewed July 28, 1946. O. G. Aug. 13. Class 46.
Beardsley's, J. W., Sons, New York, N. Y., to J. W. Beardsley's Sons, Newark, N. J. Salted and boneless fish. 54,554; re-renewed June 26, 1946. O. G. Aug. 13. Class 46.
Beebe Brothers Rubber Company, Nashua, N. H. Heels and soles of rubber, plastic, and rubber composition. 422,736; Aug. 13; Serial No. 476,420; published Jan. 1, 1946. Class 39.
Behr, Herman, & Co., to Behr-Manning Corporation, Troy, N. Y. Abrasive paper and cloth. 56,227; renewed Sept. 4, 1946. O. G. Aug. 13. Class 4.
Behr, Herman, & Company, Incorporated, Brooklyn, N. Y., to Behr-Manning Corporation, Troy, N. Y. Adhesive papers and cloths. 216,121; renewed Aug. 3, 1946. O. G. Aug. 13. Class 4.
Behr-Manning Corporation: *See*—
Behr, Herman, & Co.
Behr, Herman, & Company, Incorporated.
National Sanding Machine Company.
Benrus Watch Company, New York, N. Y. Watches. 422,847; Aug. 13. Class 27.
Birchard Chemical Works, to The Birchard System Incorporated, Hartford, Conn. Cleaning fluids. 204,981; renewed Oct. 27, 1945. O. G. Aug. 13. Class 4.
Birchard System Incorporated, The: *See*—
Birchard Chemical Works.
Bixby, Harold S., doing business as Laduby Company, East Haven, Conn. Non-metallic locking washers and keys. 422,752; Aug. 13; Serial No. 482,040; published May 7, 1946. Class 21.
Blair, Robert M., doing business as Cedar City Company, Lebanon, Ohio. Liquid cleaner. 422,888; Aug. 13. Class 4.
Bluvox Company: *See*—
Jenkins, Roy H.
Borg, George W., Corporation, The, Chicago, Ill., and Delavan, Wis. Electric motors, amplifiers, standard frequency generators, etc. 422,863; Aug. 13. Class 21.
Bound Brook Oil-Less Bearing Company, Bound Brook, N. J. Machinery bearings, bushings for mechanical working joints and machine parts, etc. 422,877; Aug. 13. Class 23.
Bourjois, Inc., New York, N. Y. Toilet and bath soap. 422,801; Aug. 13; Serial No. 492,544; published May 7, 1946. Class 4.
Boyle-Midway Inc.: *See*—
Kant-Rust Products Corporation.
Bradford Dyeing Association (U. S. A.), Westerly, R. I. Piece goods of rayon and wool, and of rayon, cotton, and combinations thereof. 422,869–73; Aug. 13. Class 42.
Bristol Manufacturing Corporation, Bristol, R. I. Flying suits, leather coats and pants, etc. 422,732; Aug. 13; Serial No. 472,500; published Apr. 16, 1946. Class 39.
Burrelle's Press Clipping Bureau, New York, N. Y. Collections of press clippings. 422,874; Aug. 13. Class 38.
Butler Manufacturing Company, Kansas City, Mo. Truck tank and trailer tank vehicles. 422,858; Aug. 13. Class 19.
Carolina Baking Company, Charlotte, N. C., to Columbia Baking Company, Wilmington, Del. Cake. 213,360; renewed May 25, 1946. O. G. Aug. 13. Class 46.
Cash, Laurence E., doing business as New York Drug Concern, to Whitehall Pharmacal Company, New York, N. Y. Compound for treating coughs and colds. 216,876; renewed Aug. 24, 1946. O. G. Aug. 13. Class 6.
Cedar City Company: *See*—
Blair, Robert M.
Chamberlain, F. B., Company: *See*—
Jack Frost Baking Powder Co.
Chemical Sundries Co., Chicago, Ill. Soap bubble kits. 422,810; Aug. 13; Serial No. 492,987; published May 21, 1946. Class 22.
Chero-Cola Company, to Nehi Corporation, Columbus, Ga. Nonalcoholic, maltless fruit beverage. 215,464; renewed July 20, 1946. O. G. Aug. 13. Class 45.
Children's Company, The, Chicago, Ill. Dolls. 422,811; Aug. 13; Serial No. 493,042; published May 21, 1946. Class 22.
Coblentz Bag Company, Inc., New York, N. Y. Ladies' handbags. 422,884; Aug. 13. Class 3.
Collins & Fairbanks Company, to Wm. Filene's Sons Company, Boston, Mass. Hats, caps, and bonnets. 50,926; re-renewed Apr. 3, 1946. O. G. Aug. 13. Class 39.
Colonial Steel Company, Pittsburgh, to Vanadium-Alloys Steel Company, Latrobe, Pa. Open-hearth, crucible and electric steel plates, sheets, and bars. 208,841; renewed Feb. 9, 1946. O. G. Aug. 13. Class 14.
Colonol, Limited, London, England. Liquid paraffin. 209,899; renewed Mar. 2, 1946. O. G. Aug. 13. Class 6.

Colucci, Alice C., doing business as Southern Trading Company, New York, N. Y. Wine. 422,898; Aug. 13. Class 47.
Columbia Baking Company: *See*—
Carolina Baking Company.
Continental Can Company, Inc., New York, N. Y. Cardboard, paper, and pasteboard cartons. 422,747; Aug. 13; Serial No. 479,840; published May 21, 1946. Class 2.
Continental Chemical Company, Los Angeles, Calif. White cement and tile grout. 422,901; Aug. 13. Class 12.
Continental Electric Co., Inc., Newark, N. J. Electric motors, electric generators, electric alternators, etc. 422,742; Aug. 13; Serial No. 479,067; published May 15, 1945. Class 21.
Continental Motors Corporation, Detroit and Muskegon, Mich. Power and lighting plant assemblies. 422,729; Aug. 13; Serial No. 463,414; published May 16, 1944. Class 21.
Cook, H. H., San Francisco, Calif. Wheat flour. 217,708; renewed Sept. 7, 1946. O. G. Aug. 13. Class 46.
Cordo Chemical Corporation, Norwalk, Conn. Protective coating in the nature of paint. 422,790; Aug. 13; Serial No. 491,240; published Apr. 16, 1946. Class 16.
Crop King Company: *See*—
Oil Sprays, Incorporated.
Crown Chemical Company, The, Cleveland, Ohio. All-purpose cleaner for cleaning floors, walls, woodwork, carpets, etc. 422,766; Aug. 13; Serial No. 488,248; published Apr. 30, 1946. Class 4.
Cuno Engineering Corporation, The, Meriden, Conn. Mechanical fluid straining and filtering apparatus. 422,851; Aug. 13. Class 23.
Curran Corporation, The, Malden, Mass. Self-emulsifying colloidal detergent solvent. 422,800; Aug. 13; Serial No. 492,361; published May 7, 1946. Class 4.
Day & Frick: *See*—
Day, Howard D.
Day, Howard D., doing business as Day & Frick, Philadelphia, Pa. Soap. 422,770; Aug. 13; Serial No. 488,398; published May 7, 1946. Class 4.
Dee's For Diamonds, Olean, N. Y. Jewelry for personal wear, not including watches. 422,904; Aug. 13. Class 28.
Delta Brush Mfg. Corp., New York, N. Y. Artists' brushes. 422,885; Aug. 13. Class 29.
Dixon-Bartlett Company, Baltimore, Md. Leather shoes. 217,728; renewed Sept. 7, 1946. O. G. Aug. 13. Class 39.
Dura-Test Corporation, North Bergen, N. J., and elsewhere. Incandescent and fluorescent lamps. 422,755; Aug. 13; Serial No. 484,251; published May 7, 1946. Class 21.
Eagle Lye Works, Milwaukee, Wis., to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Lye and potash. 50,226–7; re-renewed Mar. 6, 1946. O. G. Aug. 13. Class 6.
Eastman Kodak Company, to Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic paper. 211,208; renewed Apr. 6, 1946. O. G. Aug. 13. Class 26.
Edgett-Burnham Company: *See*—
Wayne County Preserving Co.
Eidinger, O., Mfg. Co.: *See*—
Eidinger, Otto.
Eidinger, Otto, doing business as O. Eidinger Mfg. Co., Chicago, Ill. Clothes hampers. 422,812; Aug. 13; Serial No. 493,335; published May 21, 1946. Class 2.
Elmar Laboratories: *See*—
Martini, Emil P.
Empire Shield Company, Inc., New York, N. Y. Panties. 422,753; Aug. 13; Serial No. 482,983; published May 14, 1946. Class 39.
Eskind, Morris, doing business as Alan Baby Products Co., Jackson Heights, N. Y. Infants' and children's bath robes, buntings, sleeping bags, etc. 422,791; Aug. 13; Serial No. 491,318; published Apr. 16, 1946. Class 39.
Evans, David G., Coffee Company: *See*—
Meyer Brothers Coffee and Spice Company.
F-R Publishing Corporation, The, New York, N. Y. Magazine column. 422,846; Aug. 13. Class 38.
F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column. 422,853; Aug. 13. Class 38.
Fahnestock, B. A., Co., Pittsburgh, Pa. Vermifuge. 49,149; re-renewed Jan. 23, 1946. O. G. Aug. 13. Class 6.
Feldman, Max & Bernard, Miami Beach, Fla., and Detroit, Mich. Automatic electric cigarette and cigar lighters. 422,881; Aug. 13. Class 21.
Filene's, Wm., Sons Company: *See*—
Collins & Fairbanks Company.
Fluor Corporation, Ltd., The, Los Angeles, Calif. Air-cooled heat exchange equipment. 422,864; Aug. 13. Class 21.
Foerster's Furriers: *See*—
Foerster, Gustav R.
Foerster, Gustav R., doing business as Foerster's Furriers, Springfield, Mass. Fur garments. 422,777; Aug. 13; Serial No. 489,061; published Apr. 16, 1946. Class 39.
Foley Bros. Grocery Co., to Griggs, Cooper & Company, St. Paul, Minn. Certain named canned berries, fruits and vegetables, dried currants, etc. 210,900; renewed Mar. 23, 1946. O. G. Aug. 13. Class 46.
Foundry Rubber Compounds Corporation, Washington, D. C. Solvent. 422,739; Aug. 13; Serial No. 477,466; published Apr. 30, 1946. Class 16.
Frankel and Wolff, New York, N. Y. Ladies' and misses' hats. 422,787; Aug. 13; Serial No. 490,803; published Apr. 16, 1946. Class 39.
French, Joseph A., Newark, N. J. Dehydrated manure. 422,780; Aug. 13; Serial No. 489,394; published May 7, 1946. Class 10.
Freshmaster Corporation, Newark, N. J. Display cabinets for cheese and other foods. 422,813; Aug. 13; Serial No. 493,340; published May 28, 1946. Class 32.
Friedman Hosiery Company, assignor to Friedman Hosiery Corp., New York, N. Y. Hosiery. 422,728; Aug. 13; Serial No. 462,641; published Oct. 24, 1944. Class 39.
Friedman Hosiery Corp.: *See*—
Friedman Hosiery Company.
Galter Manufacturing Company, Chicago, Ill. Pyrophoric cigar and cigarette lighters. 422,820; Aug. 13; Serial No. 495,136; published May 28, 1946. Class 34.
Gangel & Kitay, Inc., New York, N. Y. Ladies' coats and suits. 422,817; Aug. 13; Serial No. 493,757; published May 14, 1946. Class 39.
General Photo Products Co.: *See*—
Paulas, Ottilie.
Gill, Homer C., Columbus, Ohio. Coal. 217,095–6; renewed Aug. 24, 1946. O. G. Aug. 13. Class 1.
Gill, Homer C., Columbus, Ohio. Coal. 217,598; renewed Sept. 7, 1946. O. G. Aug. 13. Class 1.
Goldman, Benjamin T., St. Paul, Minn., to Monroe Chemical Company, Quincy, Ill. Hair-color restorers. 215,484; renewed July 20, 1946. O. G. Aug. 13. Class 6.
Goldstone Brothers, San Francisco, Calif. Boys' and men's cotton work and play clothing. 422,734; Aug. 13; Serial No. 473,983; published Apr. 3, 1945. Class 39.
Goodrich, B. F., Company, The, New York, N. Y. Rubber-covered hose. 210,615; renewed Mar. 16, 1946. O. G. Aug. 13. Class 35.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Garden hose. 422,802; Aug. 13; Serial No. 492,704; published May 28, 1946. Class 35.
Grand Rapids Varnish Corporation, Grand Rapids, Mich. Cleaning polish. 422,772; Aug. 13; Serial No. 488,584; published Apr. 30, 1946. Class 16.
Grand Rapids Varnish Corporation, Grand Rapids, Mich. Self-polishing wax. 422,773; Aug. 13; Serial No. 488,585; published Apr. 30, 1946. Class 16.
Graton & Knight Company: *See*—
Graton & Knight Manufacturing Company, The.
Graton & Knight Manufacturing Company, The, to Graton & Knight Company, Worcester, Mass. Adhesive belt cement. 217,350; renewed Aug. 31, 1946. O. G. Aug. 13. Class 5.
Greif, L., & Bro., Incorporated, Baltimore, Md. Topcoats and overcoats for men, youths, and boys. 216,509; renewed Aug. 10, 1946. O. G. Aug. 13. Class 39.
Griggs Cooper & Company: *See*—
Foley Bros. Grocery Co.
Guaranteed Products, Wellington, Ohio. Electric Fence Controllers. 422,896; Aug. 13. Class 21.
Haas-Miller Corporation, Philadelphia, Pa. Liquid detergent. 422,759; Aug. 13; Serial No. 485,951; published May 7, 1946. Class 4.
Hall Hardware Company, Minneapolis, Minn. Varnish. 422,748; Aug. 13; Serial No. 479,933; published May 7, 1946. Class 16.
Hallett Manufacturing Company, Inglewood, Calif. Metallic weatherproofing and shielding structures. 422,899; Aug. 13. Class 21.
Hardtmuth, L. & C., Inc.: *See*—
Kohinoor Pencil Factory, L. & C. Hardtmuth, in Budweis.
Henry, Sidney, New York, N. Y. Hair nets. 422,814; Aug. 13; Serial No. 493,353; published May 14, 1946. Class 39.
Hoffman, George W., to M. R. Miller, Indianapolis, Ind. Compound for polishing metals, wood, glass, etc. 55,855; re-renewed Aug. 21, 1946. O. G. Aug. 13. Class 4.
Hollywood Doll Manufacturing Company: *See*—
Ippolito, Domenick.
Hollywood Specialty Company: *See*—
Rosenthal, Harry.
Hubeny Brothers, Inc., Roselle, N. J. Steel kitchen cabinets and counter tops. 422,740; Aug. 13; Serial No. 478,124; published May 28, 1946. Class 32.
Hyster Company, Portland, Oreg. Vehicles. 422,861; Aug. 13. Class 23.
Ilg Electric Ventilating Co., Chicago, Ill. Forced draft port light ventilators. 422,840; Aug. 13. Class 34.
Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,825; Aug. 13; Serial No. 496,792; published May 21, 1946. Class 22.
Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,826–8; Aug. 13; Serial Nos. 496,795–7; published May 21, 1946. Class 22.
Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,829; Aug. 13; Serial No. 496,816; published May 21, 1946. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,830–1; Aug. 13; Serial Nos. 496,819–20; published May 21, 1946. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,832; Aug. 13; Serial No. 496,822; published May 21, 1946. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,833; Aug. 13; Serial No. 496,825; published May 21, 1946. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,834; Aug. 13; Serial No. 496,830 published May 21, 1946. Class 22.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls and dolls' clothes. 422,835; Aug. 13; Serial No. 496,834; published May 21, 1946. Class 22.

It Shoe Polish Co., Inc., to It Shoe Polish Products Inc., Baltimore, Md. Shoe polishes. 213,045; renewed May 18, 1946. O. G. Aug. 13. Class 4.

It Shoe Polish Products Inc.: *See*—
It Shoe Polish Co., Inc.

Jack Frost Baking Powder Co., St. Louis, Mo., to F. B. Chamberlain Company, East St. Louis, Ill., and St. Louis, Mo. Baking-powder. 50,616; re-renewed Mar. 27, 1946. O. G. Aug. 13. Class 46.

Janvere-California: *See*—
Lubin, Vera A.

Jenkins, Roy H., doing business as Bluvox Company, Los Angeles, Calif. Polish. 422,782; Aug. 13; Serial No. 489,739; published Apr. 30, 1946. Class 16.

Julian & Kokenge Co., The, Columbus, Ohio. Shoes. 422,793; Aug. 13; Serial No. 491,413; published Apr. 9, 1946. Class 39.

Kant-Rust Products Corporation, Rahway, N. J., to Boyle-Midway Inc., New York, N. Y. Lubricating oils, greases, and penetrants. 216,012; renewed Aug. 3, 1946. O. G. Aug. 13. Class 15.

Kaylon Incorporated, New York, N. Y. Pajamas and night robes. 422,775; Aug. 13; Serial No. 488,651; published Apr. 9, 1946. Class 39.

Kenworthy Brothers Company, Stoughton, to Kenworthy Brothers Company, Westboro, Mass. Coated and impregnated fabrics in the nature of artificial leather. 215,595; renewed July 20, 1946. O. G. Aug. 13. Class 50.

Kenyon, James, & Son, Limited, Bury, England. Cotton polishing cloths. 210,181; renewed Mar. 9, 1946. O. G. Aug. 13. Class 42.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Cabinets for smoke detecting equipment. 422,757; Aug. 13; Serial No. 485,294; published May 21, 1946. Class 32.

Knox, Charles B., to Charles B. Knox Gelatine Co. Inc., Johnstown, N. Y. Gelatin. 47,652; re-renewed Nov. 14, 1945. O. G. Aug. 13. Class 46.

Knox, Charles B., Gelatine Co. Inc.: *See*—
Knox, Charles B.

Kohinoor Pencil Factory L. & C. Hardtmuth, in Budweis, Budweis, Czechoslovakia, to Hardtmuth, L. & C., Inc., Bloomsbury, N. J. Lead pencils of all kinds. 216,286; renewed Aug. 10, 1946. O. G. Aug. 13. Class 37.

Laduby Company: *See*—
Bixby, Harold S.

Lady Grace Pickle Company: *See*—
W. & W. Pickle and Canning Company.

Lasting Products Company, Baltimore, Md. Paints in dry form, paste paints, ready-mixed, etc. 422,843; Aug. 13. Class 16.

Leary, Ann G., Lowell, to Leary, Ann G., Brookline, Mass. Toilet cream. 216,965; renewed Aug. 24, 1946. O. G. Aug. 13. Class 6.

Le Tourneau Foundation, The, Toccoa, Ga. Periodical publication. 422,859; Aug. 13. Class 38.

Little Falls Alloys, Inc., Paterson, N. J. Beryllium copper wire and strip. 422,860; Aug. 13. Class 14.

Loomis, W. H., Jr., doing business as Men of Men, Kansas City, Mo. Credit credential and identification cards. 422,839; Aug. 13. Class 38.

Lowenstein, M., & Sons, Inc., New York, N. Y. Bags. 422,878; Aug. 13. Class 2.

Loyola High School of Los Angeles, Inc., Los Angeles, Calif. Stuffed animal toys. 422,746; Aug. 13; Serial No. 479,191; published May 28, 1946. Class 22.

Lubin, Vera A., doing business as Janvere-California, Los Angeles, Calif. Twin kerchiefs. 422,764; Aug. 13; Serial No. 487,786; published May 14, 1946. Class 39.

Lucky Star Mfg. Co. to Mitchell J. Miller, doing business as Lucky Star Mfg. Co., Cincinnati, Ohio. Perfumes. 213,957; renewed June 8, 1946. O. G. Aug. 13. Class 6.

Luscious Crust Company: *See*—
Upton, Ellen M.

Lyntone Company, The, Oklahoma City, Okla. Trouser belts. 422,767; Aug. 13; Serial No. 488,275; published Apr. 16, 1946. Class 39.

Maas & Waldstein Company, Newark, N. J. Plating-rack enamels and stop-off coatings. 422,769; Aug. 13; Serial No. 488,356; published May 7, 1946. Class 16.

Malden Novelty Co., Inc., Malden, Mass. Furniture slip-covers. 422,815; Aug. 13; Serial No. 493,372; published May 28, 1946. Class 32.

Marks, J. C., Co., New York, N. Y. Ladies', misses', and children's hats. 422,731; Aug. 13; Serial No. 467,283; published Apr. 16, 1946. Class 39.

Mar-Salle Chicago Company, Chicago, Ill. Liqueur. 422,845; Aug. 13. Class 49.

Marsh Stencil Machine Company, Belleville, Ill. Fountain brushes or the like. 422,854; Aug. 13. Class 29.

Martini, Emil P., doing business as Elmar Laboratories, Hackensack, N. J. Gargle and mouth wash. 422,837; Aug. 13. Class 6.

Mayehoff Co., The, New York, N. Y. Misses' and women's blouses. 422,808; Aug. 13; Serial No. 492,933; published May 14, 1946. Class 39.

McLaurin-Jones Co., Brookfield, Mass. Coated papers. 216,449; renewed Aug. 10, 1946. O. G. Aug. 13. Class 37.

McQuade, John, & Co., Inc., New York, N. Y. Ready-mixed paints, paint enamels, stains, etc. 422,779; Aug. 13; Serial No. 489,231; published Apr. 30, 1946. Class 16.

McQuay-Norris Manufacturing Co., St. Louis, Mo. Automotive engine parts and tools. 422,882; Aug. 13. Class 23.

Meadtex Fabrics Co., New York, N. Y. Ladies', misses', and girls' dresses, aprons, slips, etc. 422,803; Aug. 13; Serial No. 492,724; published May 14, 1946. Class 39.

Meadtex Fabrics Co., New York, N. Y. Ladies', misses', and girls' dresses, aprons, slips, etc. 422,804; Aug. 13; Serial No. 492,728; published May 14, 1946. Class 39.

Meadtex Fabrics Co., New York, N. Y. Ladies', misses', and girls' dresses, aprons, slips, etc. 422,805; Aug. 13; Serial No. 492,732; published May 14, 1946. Class 39.

Meadtex Fabrics Co., New York, N. Y. Ladies', misses', and girls' dresses, aprons, slips, etc. 422,806; Aug. 13; Serial No. 492,779; published May 14, 1946. Class 39.

Mechanite Metal Corporation, Chattanooga, Tenn. Forgings and castings. 422,765; Aug. 13; Serial No. 488,112; published Apr. 30, 1946. Class 14.

Men of Men: *See*—
Loomis, W. H., Jr.

Meyer Brothers Coffee and Spice Company, to David G. Evans Coffee Company, St. Louis, Mo. Coffee. 52,209; re-renewed May 1, 1946. O. G. Aug. 13. Class 46.

Miller, Marie R.: *See*—
Hoffman, George W.

Miller, Mitchell J.: *See*—
Lucky Star Mfg. Co.

Mojud Hosiery Co., Inc., Long Island City, N. Y. Hosiery. 422,789; Aug. 13; Serial No. 491,210; published Apr. 16, 1946. Class 39.

Monroe Chemical Company: *See*—
Goldman, Benjamin T.

Murokleen Company, The, Iron Mountain, Mich. Cleaning preparation. 422,799; Aug. 13; Serial No. 492,333; published May 7, 1946. Class 4.

Nathan Products Corporation, New York, N. Y. Handbags, suitcases, wardrobe suitcases, etc. 422,883; Aug. 13. Class 3.

National Cloak & Suit Co., New York, N. Y., to Sears, Roebuck and Co., Chicago, Ill. Automobile tires and inner tubes. 212,371; renewed May 4, 1946. O. G. Aug. 13. Class 35.

National Glove Company, The, Columbus, Ohio. Leather, cotton, and leather and cotton work gloves. 422,795; Aug. 13; Serial No. 491,494; published May 7, 1946. Class 39.

National Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 442,776; Aug. 13; Serial No. 488,658; published Feb. 5, 1946. Class 39.

National Novelty Mfg. Co., Philadelphia, Pa. Lamp shades. 422,821; Aug. 13; Serial No. 495,401; published May 28, 1946. Class 34.

National Sanding Machine Company, Chicago, Ill., to Behr-Manning Corporation, Troy, N. Y. Sandpaper. 214,079; renewed June 15, 1946. O. G. Aug. 13. Class 4.

National Toy Products, Pasadena, Calif. Toys. 422,816; Aug. 13; Serial No. 493,505; published May 28, 1946. Class 22.

Nehi Corporation: *See*—
Chero-Cola Company.

New Jaunty Sportswear, Inc., New York, N. Y. Jackets, skirts, blouses, etc., for ladies and misses. 422,751; Aug. 13; Serial No. 480,605; published June 26, 1945. Class 39.

New York Drug Concern: *See*—
Cash, Laurence E.

New York Knitting Mills, New York, N. Y. Sweaters and sweater shirts. 422,792; Aug. 13; Serial No. 491,352; published Apr. 16, 1946. Class 39.

New York Merchandise Co., Inc., New York, N. Y. Razor blades. 422,890; Aug. 13. Class 23.

New World Club, Inc., New York, N. Y. Weekly publication. 422,891; Aug. 13. Class 38.

Nickerson & Collins Co., Chicago, Ill. Section in a monthly magazine. 422,876; Aug. 13. Class 38.

Noesting Pin Ticket Company, Incorporated, Mount Vernon, to Noesting Pin Ticket Company, Incorporated, New York, N. Y. Paper clips. 217,411; renewed Aug. 31, 1946. O. G. Aug. 13. Class 37.

Oil Sprays, Incorporated, also doing business as Crop King Company, Yakima, Wash. Fertilizers. 422,754; Aug. 13; Serial No. 483,870; published Apr. 30, 1946. Class 10.

Olympic Glove Company, New York, N. Y. Finger guards. 422,763; Aug. 13; Serial No. 487,431; published Apr. 2, 1946. Class 39.

Oxzyn Company, New York, N. Y., to Oxzyn Company, Clifton, N. J. Powder puffs. 213,641; renewed June 1, 1946. O. G. Aug. 13. Class 29.

Palmetto Cotton Mills, Incorporated, Palmetto, Ga. Cotton duck cloth in the gray, etc. 216,856; renewed Aug. 24, 1946. O. G. Aug. 13. Class 42.

Palomino Horse Breeders of America, Inc., Mineral Wells, Tex. Annual publication. 422,880; Aug. 13. Class 38.

Panhandle Refining Company, Wichita Falls, Tex. Paint drier. 217,455; renewed Aug. 31, 1946. O. G. Aug. 13. Class 16.

Paralastic Products Co., Inc., New York, N. Y. Caulking compounds. 422,749; Aug. 13; Serial No. 480,343; published May 28, 1946. Class 12.

Parker Pipe Company Limited, The, London, England. Pyrophoric lighters and flints therefor. 422,823; Aug. 13; Serial No. 495,619; published May 28, 1946. Class 34.

Paterson Parchment Paper Company, The: *See*—
Paterson Parchment Paper Co., The.

Paterson Parchment Paper Co., The, Passaic, N. J., to The Paterson Parchment Paper Company, Bristol, Pa. Paper employed for packing butter, cheese, lard, etc. 217,634; renewed Sept. 7, 1946. O. G. Aug. 13. Class 37.

Paulas, Ottilie, doing business as General Photo Products Co., Chatham Township, Morris County, N. J. Photographic reproduction apparatus. 422,848; Aug. 13. Class 26.

Pennsylvania Salt Manufacturing Company, The: *See*—
Eagle Lye Works.

Pepe, F., Macaroni Co. Inc., The, Waterbury, Conn. Alimentary pastes. 215,131; renewed July 13, 1946. O. G. Aug. 13. Class 46.

Plainville Stock Company, to Plainville Stock Company, Plainville, Mass. Scarf-pins, stick-pins, brooches, etc. 55,907; re-renewed Aug. 21, 1946. O. G. Aug. 13. Class 28.

Prince Rubber Company, Inc., Buffalo, N. Y. Machinery packing made of rubber or of rubber and asbestos. 422,743; Aug. 13; Serial No. 479,091; published May 28, 1946. Class 35.

Pruitt Food Products, Los Angeles, Calif. French dressing. 422,897; Aug. 13. Class 46.

Pur-O-Zone Chemical Company: *See*—
Vincent, V. Jack.

Pyridium Corporation, The, New York, to Pyridium Corporation, Yonkers, N. Y. Azo dyes. 217,862; renewed Sept. 14, 1946. O. G. Aug. 13. Class 6.

Radiant Manufacturing Corporation, Chicago, Ill. Motion picture projection screens, tripods therefor, and photographic lighting equipment, etc. 422,879; Aug. 13. Class 26.

Rankin, Albert I., Baltimore, Md. Composition of material for use as a floor coating, etc. 422,906; Aug. 13. Class 12.

Rasmussen Shoe Company, Westboro, Mass. Infants' shoes of leather, rubber fabric or combinations thereof. 422,730; Aug. 13; Serial No. 467,169; published Apr. 9, 1946. Class 39.

Rauh, E., & Sons Fertilizer Co., Indianapolis, Ind. Tankage and fertilizer. 422,865; Aug. 13. Class 10.

Reid, Murdoch & Co., Chicago, Ill. Canned sardines. 214,777; renewed July 6, 1946. O. G. Aug. 13. Class 46.

Republic Steel Corporation: *See*—
United Alloy Steel Corporation.

Research Corporation, assignee: *See*—
Toledo Rex Spray Company, The.

Rex Company, The, Kansas City, Mo., to Rex Research Corporation, Toledo, Ohio. Insecticide. 213,818; renewed June 8, 1946. O. G. Aug. 13. Class 6.

Rex Research Corporation: *See*—
Rex Company, The.
Toledo Rex Spray Company, The.

Roma Wine Company, New York, N. Y., and Fresno, Calif. Wines. 422,849; Aug. 13. Class 47.

Rose Brothers, New York, N. Y. Men's and youths' men's suits and pants. 422,809; Aug. 13; Serial No. 492,958; published May 14, 1946. Class 39.

Rosenthal, Harry, doing business as Hollywood Specialty Company, Los Angeles, Calif. Toys. 422,744; Aug. 13; Serial No. 479,145; published May 21, 1946. Class 22.

Rotor Tool Company, The, Cleveland, Ohio. Rotary fluid motors. 422,855; Aug. 13. Class 23.

Roxalin Flexible Finishes, Inc., Elizabeth, N. J. Primers and clear and pigmented protective and decorative film-forming compositions. 422,768; Aug. 13; Serial No. 488,285; published Apr. 30, 1946. Class 16.

Sacks-Barlow Foundries, Inc.: *See*—
Sacks, Louis.

Sacks, Louis, to Sacks-Barlow Foundries, Inc., Newark, N. J. Heel-plates. 27,975; re-renewed Mar. 17, 1946. O. G. Aug. 13. Class 13.

Salter, H. B., Manufacturing Company, Marysville, Ohio. Plumbing fixtures, etc. 422,892; Aug. 13. Class 13.

Sargent & Greenleaf, Inc., Rochester, N. Y. Combination locks. 217,644; renewed Sept. 7, 1946. O. G. Aug. 13. Class 25.

Saverite Engineering Company, Los Angeles, Calif. Plastic paint. 422,778; Aug. 13; Serial No. 489,150; published Apr. 16, 1946. Class 16.

Schlitz, Jos., Brewing Company: *See*—
Schlitz, Joseph, Brewing Company.

Schlitz, Joseph, Brewing Company, to Jos. Schlitz Brewing Company, Milwaukee, Wis. Lager-beer. 52,011; re-renewed May 1, 1946. O. G. Aug. 13. Class 48.

Schoble Hats, Inc., Philadelphia, Pa. Men's hats. 422,798; Aug. 13; Serial No. 492,227; published May 14, 1946. Class 39.

Seabrook Farms Co., Upper Deerfield, N. J. Quick frozen fruits, vegetables, and berries. 422,875; Aug. 13. Class 46.

Sears, Roebuck and Co.: *See*—
National Cloak & Suit Co.

Shook Bronze Corporation, Lima, Ohio. Babbit metal. 422,758; Aug. 13; Serial No. 485,700; published Apr. 30, 1946. Class 14.

Shorewood Mills, Milwuakee, Wis. Underwear of knitted and textile fabrics, and infants' wrappers, etc. 216,358; renewed Aug. 10, 1946. O. G. Aug. 13. Class 39.

Shotwell Mfg. Co., The, Chicago, Ill. Candy and candy bars. 217,755; renewed Sept. 7, 1946. O. G. Aug. 13. Class 46.

Shuron Optical Company, Inc.: *See*—
Shur-On Standard Optical Company, Inc.

Shur-On Standard Optical Company, Inc., to Shuron Optical Company, Inc., Geneva, N. Y. Opthalmic mountings. 216,319; renewed Aug. 10, 1946. O. G. Aug. 13. Class 26.

Soil-Off Manufacturing Co., Glendale, Calif. Non-inflammable liquid paint cleaner. 422,796; Aug. 13; Serial No. 492,005; published Apr. 30, 1946. Class 4.

Sola Electric Company, Chicago, Ill. Transformers, voltage regulators and compensators, etc. 422,902; Aug. 13. Class 21.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 422,818–19; Aug. 13; Serial Nos. 493,840–1; published May 28, 1946. Class 2.

Southern Trading Company: *See*—
Colucci, Alice Coleman.

Spalding Research Laboratories, Inc., Lansing, Mich. Cleaning solution. 422,887; Aug. 13. Class 4.

Spillers Limited: *See*—
Spillers Victoria Foods, Limited.

Spillers Victoria Foods, Limited, to Spillers Limited, London, England. Food for dogs. 215,395; renewed July 20, 1946. O. G. Aug. 13. Class 46.

Stark Bro's. Nurseries & Orchards Company, Louisiana, Mo. Grape vines, cuttings, scions, grafts, roots, and stocks. 52,113; re-renewed May 1, 1946. O. G. Aug. 13. Class 1.

Stark Bro's Nurseries & Orchards Company, Louisiana, Mo. Hybrid seedling varieties of grape vines, cuttings, scions, etc. 52,124; re-renewed May 1, 1946. O. G. Aug. 13. Class 1.

Sterling Novelty Company, Chicago, Ill. Hand bags. 422,774; Aug. 13; Serial No. 488,623; published May 21, 1946. Class 3.

Stetson Hats, Inc., Philadelphia, Pa. Ladies' hats. 422,727; Aug. 13; Serial No. 461,575; published May 7, 1946. Class 39.

Strauss, Louis B., Manhattan Beach, N. Y. Men's and women's sweaters, scarfs, and hosiery, etc. 422,838; Aug. 13. Class 39.

Sutton Publishing Company, Inc., New York, N. Y. Periodicals published from time to time. 422,850; Aug. 13. Class 38.

Sutton Publishing Company, Inc., New York, N. Y. Periodical magazine. 422,856; Aug. 13. Class 38.

Swartwout Company, The, Cleveland, Ohio. Combined air separators or cleaners and steam traps. 422,822; Aug. 13; Serial No. 495,524; published May 28, 1946. Class 34.

Tailored Woman, Inc., The, New York, N. Y. Women's and misses' wearing apparel. 422,760; Aug. 13; Serial No. 486,879; published Apr. 16, 1946. Class 39.

Taylor, Frank F., Company, The, Norwood, Ohio. Baby walkers and strollers. 422,852; Aug. 13. Class 19.

Three-In-One-Doll Corporation, New York, N. Y. Dolls. 422,824; Aug. 13; Serial No. 495,638; published May 21, 1946. Class 22.

Thompson, Wm. T., doing business as Wm. T. Thompson Company, Los Angeles, Calif. Yeast powder containing vitmin D, etc. 422,889; Aug. 13. Class 6.

Thompson, Wm. T., Company: *See*—
Thompson, Wm. T.

Toledo Rex Spray Company, The, assignor to Rex Research Corporation, to Rex Research Corporation, Toledo, Ohio. Rodent exterminator. 213,664; renewed June 1, 1946. O. G. Aug. 13. Class 6.

Town and Country Shoes, Sedalia, Mo. Shoes. 422,788; Aug. 13; Serial No. 490,863; published Apr. 16, 1946. Class 39.

Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. 422,900; Aug. 13. Class 1.
Twin-Dent Co., Inc., New York, N. Y. Toothbrushes. 422,893; Aug. 13. Class 29.
United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio, to Republic Steel Corporation, Cleveland, Ohio. Rust-resisting anti-corrosive metal and iron and steel bars, slabs, etc. 211,281; renewed Apr. 6, 1946. O. G. Aug. 13. Class 14.
United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Abrasive grains and powders, abrasive wheels, and grinding media. 422,761; Aug. 13; Serial No. 487,222; published Apr. 30, 1946. Class 4.
United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Projectile noses for artillery shells and bullets. 422,762; Aug. 13; Serial No. 487,223; published Apr. 30, 1946. Class 9.
United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Projectile noses for artillery shells and bullets. 422,781; Aug. 13; Serial No. 489,545; published Apr. 30, 1946. Class 9.
Upton, Ellen M., doing business as Luscious Crust Company, Mount Vernon, N. Y. Pastry dough. 422,844; Aug. 13. Class 46.
V Fruit Brandy Company, Los Angeles, Calif. Liqueur. 422,866; Aug. 13. Class 49.
Vanadium-Alloys Steel Company: *See*— Colonial Steel Company.
Vanity Corset Company, Inc., New York, N. Y. Corsets, corselets, girdles, etc. 422,735; Aug. 13; Serial No. 475,738; published May 7, 1946. Class 39.
Van Raalte Company, Inc., New York, N. Y. Gloves. 422,771; Aug. 13; Serial No. 488,552; published Apr. 16, 1946. Class 39.
Van Raalte Company, Inc., New York, N. Y. Ladies' underwear. 422,807; Aug. 13; Serial No. 492,806; published May 14, 1946. Class 39.
Van Stan, Arthur J.: *See*— Van Stan, Victor F.
Van Stan, V. F., Co.: *See*— Van Stan, Victor F.
Van Stan, Victor F., to Arthur J. Van Stan, doing business as V. F. Van Stan Co., Philadelphia, Pa. Adhesive cement. 217,593; renewed Sept. 7, 1946. O. G. Aug. 13. Class 5.
Vincent, V. Jack, doing business as Pur-O-Zone Chemical Company, Lawrence, Kans. Germicidal soaps and floor finishes. 422,733; Aug. 13; Serial No. 473,201; published May 7, 1946. Class 4.
W. & W. Pickle and Canning Company, also doing business as Lady Grace Pickle Company, Montgomery, Ala. Pickles. 217,090–1; renewed Aug. 24, 1946. O. G. Aug. 13. Class 46.
Wakmann, Icko, doing business as Wakmann Watch Company, New York, N. Y. Watches. 422,894; Aug. 13. Class 27.
Wakmann Watch Company: *See*— Wakmann, Icko.
Wayne County Preserving Co., to Edgett-Burnham Company, Newark, N. Y. Canned fruits and vegetables. 53,296; re-renewed May 29, 1946. O. G. Aug. 13. Class 46.
Wayne County Preserving Co., to Edgett-Burnham Company, Newark, N. Y. Canned fruits and vegetables. 53,297; re-renewed May 29, 1946. O. G. Aug. 13. Class 46.
Wayne County Preserving Co., to Edgett-Burnham Company, Newark, N. Y. Canned fruits and vegetables. 54,399; re-renewed June 26, 1946. O. G. Aug. 13. Class 46.
Weinberg, J., and Sons, to J. Weinberg & Sons (1927) Limited, Cheetham, Manchester, England. Waterproof and rainproof clothing. 212,301; renewed Apr. 27, 1946. O. G. Aug. 13. Class 39.
Weinberg, J., & Sons (1927) Limited: *See*— Weinberg, J., and Sons.
Wesley & Winter, Inc., Newark, to Wesley & Winter, Inc., Linden, N. J. Writing paper and mailing envelopes. 215,264; renewed July 13, 1946. O. G. Aug. 13. Class 37.
Western Burlap Bag Co., Chicago, Ill. Textile bags. 422,905; Aug. 13. Class 2.
Whitehall Pharmacal Company: *See*— Cash, Laurence E.
Whittemore Bros. Corp., Cambridge, Mass. Leather polishes. 215,123; renewed July 13, 1946. O. G. Aug. 13. Class 4.
Whittemore Bros. Corp., Cambridge, Mass. Shoe polish and leather dressings. 215,124; renewed July 13, 1946. O. G. Aug. 13. Class 4.
Whittemore Bros. Corp., Cambridge, Mass. Polishes for leather goods. 215,126; renewed July 13, 1946. O. G. Aug. 13. Class 4.
Willows Manufacturing Company, Brooklyn, N. Y. Metal hose and pipe clamp. 422,857; Aug. 13. Class 13.
Wilson, Andrew, Inc., Springfield, N. J. Insecticides. 210,684; renewed Mar. 23, 1946. O. G. Aug. 13. Class 6.
Wissner, Benjamin F., New York, N. Y. Citrus fruit squeezer. 422,842; Aug. 13. Class 23.
Wood, T. W., & Sons, Richmond, Va. Grass seed. 217,629; renewed Sept. 7, 1946. O. G. Aug. 13. Class 1.
Woolson Spice Company, The, Toledo, Ohio. Coffee. 55,627; re-renewed Aug. 21, 1946. O. G. Aug. 13. Class 46.
Woolson Spice Company, The, Toledo, Ohio. Coffee. 56,101; re-renewed Aug. 21, 1946. O. G. Aug. 13. Class 46.
Wright & Crowley, New York, N. Y. Rubber shoe soles. 422,737; Aug. 13; Serial No. 477,086; published Apr. 16, 1946. Class 39.
Write Incorporated, Bridgeport, Conn. Typewriter ribbon and carbon paper. 422,756; Aug. 13; Serial No. 484,550; published Apr. 30, 1946. Class 11.
Yale & Towne Manufacturing Company, The, New York, N. Y. Motorized hand lift trucks. 422,841; Aug. 13. Class 23.
Zion Industries, Inc., Zion, Ill. Candy, cookies, and bakers' confections, etc. 422,886; Aug. 13. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. H. C. Gill. 217,095–6; renewed Aug. 24, 1946. O. G. Aug. 13.
Coal. H. C. Gill. 217,598; renewed Sept. 7, 1946. O. G. Aug. 13.
Grape vines, cuttings, scions, etc., Hybrid seedling varieties of. Stark Bro's Nurseries & Orchards Company. 52,124; re-renewed May 1, 1946. O. G. Aug. 13.
Grape vines, cuttings, scions, grafts, roots, and stocks. Stark Bro's. Nurseries & Orchards Company. 52,113; re-renewed May 1, 1946. O. G. Aug. 13.
Leather. A. Trostel & Sons Company. 422,900; Aug. 13.
Seed, Grass. T. W. Wood & Sons. 217,629; renewed Sept. 7, 1946. O. G. Aug. 13.

CLASS 2

Bags. M. Lowenstein & Sons, Inc. 422,878; Aug. 13.
Bags, Paper. Southern Advance Bag & Paper Co. Inc. 422,818–19; Aug. 13; Serial Nos. 493,840–41; published May 28, 1946.
Bags, Textile. Western Burlap Bag Co. 422,905; Aug. 13.
Cartons, Cardboard, paper, and pasteboard. Continental Can Company, Inc. 422,747; Aug. 13; Serial No. 479,840; published May 21, 1946.
Compacts. Allied Plastics Company. 422,750; Aug. 13; Serial No. 480,491; published May 28, 1946.
Hampers, Clothes. T. Eidinger. 422,812; Aug. 13; Serial No. 493,335; published May 21, 1946.

CLASS 3

Hand bags. Sterling Novelty Company. 422,774; Aug. 13; Serial No. 488,623; published May 21, 1946.
Handbags, Ladies'. Coblentz Bag Company, Inc. 422,884; Aug. 13.
Handbags, suitcases, wardrobe suitcases, etc. Nathan Products Corporation. 422,883; Aug. 13.

CLASS 4

Abrasive grains and powders, abrasive wheels, and grinding media. United States Quarry Tile Company. 422,761; Aug. 13; Serial No. 487,222; published Apr. 30, 1946.
Abrasive paper and cloth. Herman Behr & Co. 56,227; re-renewed Sept. 4, 1946. O. G. Aug. 13.
Cleaner for cleaning floors, walls, woodwork, carpets, etc. Crown Chemical Company. 422,766; Aug. 13; Serial No. 488,248; published Apr. 30, 1946.
Cleaner, Liquid. R. M. Blair. 422,888; Aug. 13.
Cleaner, Non-inflammable liquid paint. Soil-Off Manufacturing Co. 422,796; Aug. 13; Serial No. 492,005; published Apr. 30, 1946.
Cleaning preparation. Murokleen Company. 422,799; Aug. 13; Serial No. 492,333; published May 7, 1946.
Cleaning solution. Spalding Research Laboratories, Inc. 422,887; Aug. 13.
Compound for polishing metals, wood, glass, etc. G. W. Hoffman. 55,855; re-renewed Aug. 21, 1946. O. G. Aug. 13.
Cream, face and bath soaps, Shaving. Elizabeth Arden Sales Corporation. 422,797; Aug. 13; Serial No. 492,024; published Apr. 30, 1946.
Detergent, Liquid. Haas-Miller Corporation. 422,759; Aug. 13; Serial No. 485,951; published May 7, 1946.
Detergent solvent, Self-emulsifying colloidal. Curran Corporation. 422,800; Aug. 13; Serial No. 492,361; published May 7, 1946.
Fluids, Cleaning. Birchard Chemical Works. 204,981; renewed Oct. 27, 1945. O. G. Aug. 13.

Papers and cloths, Abrasive. H. Behr & Company, Incorporated. 216,121; renewed Aug. 3, 1946. O. G. Aug. 13.
Polish and leather dressings, Shoe. Whittemore Bros. Corp. 215,124; renewed July 13, 1946. O. G. Aug. 13.
Polishes for leather goods. Whittemore Bros. Corp. 215,126; renewed July 13, 1946. O. G. Aug. 13.
Polishes, Leather. Whittemore Bros. Corp. 215,123; renewed July 13, 1946. O. G. Aug. 13.
Polishes, Shoe. It Shoe Polish Co., Inc. 213,045; renewed May 18, 1946. O. G. Aug. 13.
Sandpaper. National Sanding Machine Company. 214,079; renewed June 15, 1946. O. G. Aug. 13.
Soap. H. D. Day. 422,770; Aug. 13; Serial No. 488,398; published May 7, 1946.
Soap, Toilet and bath. Bourjois, Inc. 422,801; Aug. 13; Serial No. 492,544; published May 7, 1946.
Soaps and floor finishes, Germicidal. V. J. Vincent. 422,733; Aug. 13; Serial No. 473,201; published May 7, 1946.

CLASS 5

Cement, Adhesive. V. F. Van Stan. 217,593; renewed Sept. 7, 1946. O. G. Aug. 13.
Cement, Adhesive belt. Graton & Knight Manufacturing Company. 217,350; renewed Aug. 31, 1946. O. G. Aug. 13.

CLASS 6

Azo dyes. Pyridium Corporation. 217,862; renewed Sept. 14, 1946. O. G. Aug. 13.
Compound for treating coughs and colds. L. E. Cash. 216,876; renewed Aug. 24, 1946. O. G. Aug. 13.
Cream, Toilet. A. G. Leary. 216,965; renewed Aug. 24, 1946. O. G. Aug. 13.
Exterminator, Rodent. Toledo Rex Spray Company. 213,664; renewed June 1, 1946. O. G. Aug. 13.
Gargle and mouth wash. E. P. Martini. 422,837; Aug. 13.
Hair-color restorers. B. T. Goldman. 215,484; renewed July 20, 1946. O. G. Aug. 13.
Insecticide. Rex Company. 213,818; renewed June 8, 1946. O. G. Aug. 13.
Insecticides. Andrew Wilson, Inc. 210,684; renewed Mar. 23, 1946. O. G. Aug. 13.
Lye and potash. Eagle Lye Works. 50,226–7; re-renewed Mar. 6, 1946. O. G. Aug. 13.
Paraffin, Liquid. Colonol, Limited. 209,899; renewed Mar. 2, 1946. O. G. Aug. 13.
Perfumes. Lucky Star Mfg. Co. 213,957; renewed June 8, 1946. O. G. Aug. 13.
Vermifuge. B. A. Fahnestock Co. 49,149; re-renewed Jan. 23, 1946. O. G. Aug. 13.
Yeast powder containing vitamin D, etc. W. T. Thompson. 422,889; Aug. 13.

CLASS 9

Projectile noses for artillery shells and bullets. United States Quarry Tile Company. 422,762; Aug. 13; Serial No. 487,223; published Apr. 30, 1946.
Projectile noses for artillery shells and bullets. United States Quarry Tile Company. 422,781; Aug. 13; Serial No. 489,545; published Apr. 30, 1946.

CLASS 10

Fertilizers. Oil Sprays, Incorporated. 422,754; Aug. 13; Serial No. 483,870; published Apr. 30, 1946.
Manure, Dehydrated. J. A. French. 422,780; Aug. 13; Serial No. 489,394; published May 7, 1946.
Tankage and fertilizer. E. Rauh & Sons Fertilizer Co. 422,865; Aug. 13.

CLASS 11

Typewriter ribbon and carbon paper. Write Incorporated. 422,756; Aug. 13; Serial No. 484,550; published Apr. 30, 1946.

CLASS 12

Caulking compounds. Paralastic Products Co., Inc. 422,749; Aug. 13; Serial No. 480,343; published May 28, 1946.
Cement and tile grout, White. Continental Chemical Company. 422,901; Aug. 13.
Floor coating, etc., Composition of material for use as a. A. I. Rankin. 422,906; Aug. 13.
Mortar or cement, Air-setting refractory. Acme Brick Company. 422,903; Aug. 13.
Tiles and ceramic ware. American Encaustic Tiling Co., Ltd. 45,425; re-renewed Aug. 15, 1946. O. G. Aug. 13.
Tiles and ceramic ware. American Encaustic Tiling Co. Ltd. 46,389; re-renewed Aug. 15, 1946. O. G. Aug. 13.

CLASS 13

Heel-plates. L. Sacks. 27,975; re-renewed Mar. 17, 1946. O. G. Aug. 13.
Hose and pipe clamp, Metal. Willows Manufacturing Company. 422,857; Aug. 13.
Plumbing fixtures, etc. H. B. Salter Manufacturing Company. 422,892; Aug. 13.

CLASS 14

Forgings and castings. Meehanite Metal Corporation. 422,765; Aug. 13; Serial No. 488,112; published Apr. 30, 1946.
Metal and iron and steel bars, slabs, etc., Rust-resisting anti-corrosive. United Alloy Steel Corporation. 211,281; renewed Apr. 6, 1946. O. G. Aug. 13.
Metal, Babbitt. Shook Bronze Corporation. 422,758; Aug. 13; Serial No. 485,700; published Apr. 30, 1946.
Steel plates, sheets, and bars, Open-hearth, crucible, and electric. Colonial Steel Company. 208,841; renewed Feb. 9, 1946. O. G. Aug. 13.
Switch rods. American Brake Shoe Company. 422,784; Aug. 13; Serial No. 490,048; published May 14, 1946.
Welding rods, Arc. Auto Arc-Weld Manufacturing Co. 422,783; Aug. 13; Serial No. 489,929; published May 14, 1946.
Wire and strip, Beryllium copper. Little Falls Alloys. 422,860; Aug. 13.

CLASS 15

Oils, greases, and penetrants, Lubricating. Kant-Rust Products Corporation. 216,012; renewed Aug. 3, 1946. O. G. Aug. 13.

CLASS 16

Coating in the nature of paint, Protective. Corod Chemical Corporation. 422,790; Aug. 13; Serial No. 491,240; published Apr. 16, 1946.
Enamels and stop-off coatings, Plating-rack. Maas, & Waldstein Company. 422,769; Aug. 13; Serial No. 488,356; published May 7, 1946.
Film-forming compositions, Primers and clear and pigmented protective and decorative. Roxalin Flexible Finishes, Inc. 422,768; Aug. 13; Serial No. 488,285; published Apr. 30, 1946.
Paint drier. Panhandle Refining Company. 217,455; renewed Aug. 31, 1946. O. G. Aug. 13.
Paint, Plastic. Saverite Engineering Company. 422,778; Aug. 13; Serial No. 489,150; published Apr. 16, 1946.
Paints in dry form, paste paints, ready-mixed paints, etc. Lasting Products Company. 422,843; Aug. 13.
Paints, paint enamels, stains, etc., Ready-mixed. John McQuade & Co., Inc. 422,779; Aug. 13; Serial No. 489,231; published Apr. 30, 1946.
Polish. R. H. Jenkins. 422,782; Aug. 13; Serial No. 489,739; published Apr. 30, 1946.
Polish, Cleaning. Grand Rapids Varnish Corporation. 422,772; Aug. 13; Serial No. 488,584; published Apr. 30, 1946.
Solvent. Foundry Rubber Compounds Corporation. 422,739; Aug. 13; Serial No. 477,466; published Apr. 30, 1946.
Varnish. Hall Hardware Company. 422,748; Aug. 13; Serial No. 479,933; published May 7, 1946.
Wax, Self-polishing. Grand Rapids Varnish Corporation. 422,773; Aug. 13; Serial No. 488,585; published Apr. 30, 1946.
Wood filler. Atlas Powder Company. 422,794; Aug. 13; Serial No. 491,450; published Apr. 16, 1946.

CLASS 19

Vehicles, Truck tank and trailer tank. Butler Manufacturing Company. 422,858; Aug. 13.
Walkers and strollers, Baby. F. F. Taylor Company. 422,852; Aug. 13.

CLASS 21

Electric fence controllers. Guaranteed Products. 422,896; Aug. 13.
Lamps, Incandescent and fluorescent. Duro-Test Corporation. 422,755; Aug. 13; Serial No. 484,251; published May 7, 1946.
Lighters, Automatic electric cigarette and cigar. M. & B. Feldman. 422,881; Aug. 13.
Metallic weatherproofing and shielding structures. Hallett Manufacturing Company. 422,899; Aug. 13.
Motors, amplifiers, standard frequency generators, Electric. G. W. Borg Corporation. 422,863; Aug. 13.
Motors, electric generators, electric alternators, etc., Electric. Continental Electric Co., Inc. 422,742; Aug. 13; Serial No. 479,067; published May 15, 1945.
Power and lighting plant assemblies. Continental Motors Corporation. 422,729; Aug. 13; Serial No. 463,414; published May 16, 1944.
Transformers, voltage regulators, and compensators, etc. Sola Electric Company. 422,902; Aug. 13.
Washers and keys, Non-metallic locking. H. S. Bixby. 422,752; Aug. 13; Serial No. 482,040; published May 7, 1946.

CLASS 22

Dolls. Children's Company. 422,811; Aug. 13; Serial No. 493,042; published May 21, 1946.
Dolls. Three-In-One-Doll Corporation. 422,824; Aug. 13; Serial No. 495,638; published May 21, 1946.
Dolls and doll's clothes. D. Ippolito. 422,825; Aug. 13; Serial No. 496,792; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,826–8; Aug. 13; Serial Nos. 496,795–7; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,829; Aug. 13; Serial No. 496,816; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,830–1; Aug. 13; Serial Nos. 496,819–20; published May 21, 1946.

Dolls and dolls' clothes. D. Ippolito. 422,832; Aug. 13; Serial No. 496,822; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,833; Aug. 13; Serial No. 496,825; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,834; Aug. 13; Serial No. 496,830; published May 21, 1946.
Dolls and dolls' clothes. D. Ippolito. 422,835; Aug. 13; Serial No. 496,834; published May 21, 1946.
Kits, Soap bubble. Chemical Sundries Co. 422,810; Aug. 13; Serial No. 492,987; published May 21, 1946.
Toys. National Toy Products. 422,816; Aug. 13; Serial No. 493,505; published May 28, 1946.
Toys. H. Rosenthal. 422,744; Aug. 13; Serial No. 479,145; published May 21, 1946.
Toys, Stuffed animal. Loyola High School of Los Angeles, Inc. 422,746; Aug. 13; Serial No. 479,191; published May 28, 1946.

CLASS 23

Bearings, bushings for mechanical working joints and machine parts, Machinery. Bound Brook Oil-Less Bearing Company. 422,877; Aug. 13.
Blades, Razor. New York Merchandise Co., Inc. 422,890; Aug. 13.
Engine parts and tools, Automotive. McQuay-Norris Manufacturing Co. 422,882; Aug. 13.
Fluid motors, Rotary. Rotor Tool Company. 422,855; Aug. 13.
Mowers, Lawn. American Chain & Cable Company, Inc. 422,862; Aug. 13.
Squeezer, Citrus fruit. B. F. Wissner. 422,842; Aug. 13.
Straining and filtering apparatus, Mechanical fluid. Cuno Engineering Corporation. 422,851; Aug. 13.
Trucks, Motorized hand lift. Yale & Towne Manufacturing Company, The. 422,841; Aug. 13.
Vehicles. Hyster Company. 422,861; Aug. 13.

CLASS 25

Locks, Combination. Sargent & Greenleaf, Inc. 217,644; renewed Sept. 7, 1946. O. G. Aug. 13.

CLASS 26

Motion picture projection screens, tripods therefor, and photographic lighting equipment, etc. Radiant Manufacturing Corporation. 422,879; Aug. 13.
Mountings, Ophthalmic. Shur-On Standard Optical Company, Inc. 216,319; renewed Aug. 10, 1946. O. G. Aug. 13.
Photographic paper, Light-sensitive. Eastman Kodak Company. 211,208; renewed Apr. 6, 1946. O. G. Aug. 13.
Photographic reproduction apparatus. O. Paulas. 422,848; Aug. 13.

CLASS 27

Watches. Benrus Watch Company. 422,847; Aug. 13.
Watches. I. Wakmann. 422,894; Aug. 13.

CLASS 28

Bracelets and watch bracelets. Acme Watch Case Co. 217,701; renewed Sept. 7, 1946. O. G. Aug. 13.
Jewelry for personal wear, not including watches. Dee's For Diamonds. 422,904; Aug. 13.
Scarf-pins, stick-pins, brooches, etc. Plainville Stock Company. 55,907; re-renewed Aug. 21, 1946. O. G. Aug. 13.

CLASS 29

Brushes, Artists'. Delta Brush Mfg. Corp. 422,885; Aug. 13.
Brushes or the like, Fountain. Marsh Stencil Company. 422,854; Aug. 13.
Powder puffs. Oxzyn Company. 213,641; renewed June 1, 1946. O. G. Aug. 13.
Toothbrushes. Twin-Dent Co., Inc. 422,893; Aug. 13.

CLASS 32

Cabinets and counter tops, Steel kitchen. Hubeny Brothers, Inc. 422,740; Aug. 13; Serial No. 478,124; published May 28, 1946.
Cabinets, Filing. Art Steel Sales Corporation. 422,836; Aug. 13; Serial No. 497,160; published May 28, 1946.
Cabinets for cheese and other foods, Display. Freshmaster Corporation. 422,813; Aug. 13; Serial No. 493,340; published May 28, 1946.
Cabinets for smoke detecting equipment. Walter Kidde & Company, Inc. 422,757; Aug. 13; Serial No. 485,294; published May 21, 1946.
Slipcover, Furniture. Malden Novelty Co., Inc. 422,815; Aug. 13; Serial No. 493,372; published May 28, 1946.

CLASS 34

Air separators or cleaners and steam traps, Combined. Swartwout Company. 422,822; Aug. 13; Serial No. 495,524; published May 28, 1946.
Furnace, Oil burning. Auburn Foundry, Inc. 422,867; Aug. 13.
Furnace, Stoker. Auburn Foundry, Inc. 422,868; Aug. 13.
Heat exchange equipment, Air-cooled. Fluor Corporation, Ltd. 422,864; Aug. 13.
Lighters and flints therefor, Pyrophoric. Parker Pipe Company Limited. 422,823; Aug. 13; Serial No. 495,619; published May 28, 1946.
Lighters, Pyrophoric cigar and cigarette. Galter Manufacturing Company. 422,820; Aug. 13; Serial No. 495,136; published May 28, 1946.
Shades, Lamp. National Novelty Mfg. Co. 422,821; Aug. 13; Serial No. 495,401; published May 28, 1946.
Ventilators, Forced draft port light. Ilg Electric Ventilating Co. 422,840; Aug. 13.

CLASS 35

Hose, Garden. B. F. Goodrich Company. 422,802; Aug. 13; Serial No. 492,704; published May 28, 1946.
Hose, Rubber-covered. B. F. Goodrich Company. 210,615; renewed Mar. 16, 1946. O. G. Aug. 13.
Packing made of rubber or of rubber and asbestos, Machinery. Prince Rubber Company, Inc. 422,743; Aug. 13; Serial No. 479,091; published May 28, 1946.
Tires and inner tubes, Automobile. National Cloak & Suit Co. 212,371; renewed May 4, 1946. O. G. Aug. 13.

CLASS 37

Clips, Paper. Noesting Pin Ticket Company, Incorporated. 217,411; renewed Aug. 31, 1946. O. G. Aug. 13.
Paper and mailing envelopes, Writing. Wesley & Winter, Inc. 215,264; renewed July 13, 1946. O. G. Aug. 13.
Paper employed for packing butter, cheese, lard, etc. Patterson Parchment Paper Co. 217,634; renewed Sept. 7, 1946. O. G. Aug. 13.
Papers, Coated. McLaurin-Jones Co. 216,449; renewed Aug. 10, 1946. O. G. Aug. 13.
Pencils of all kinds, Lead. Kohinoor Pencil Factory L. & C. Hardtmuth, in Budweis. 216,286; renewed Aug. 10, 1946. O. G. Aug. 13.

CLASS 38

Cards, Credit credential and identification. W. H. Loomis, Jr. 422,839; Aug. 13.
Clippings, Collections of press. Burrelle's Press Clippings Bureau. 422,874; Aug. 13.
Column, Humorous magazine. F-R Publishing Corporation. 422,853; Aug. 13.
Column, Magazine. F-R Publishing Corporation, The. 422,846; Aug. 13.
Magazine, Monthly. E. H. Abernathy Publishing Company, Inc. 422,895; Aug. 13.
Magazine, Periodical. Sutton Publishing Company, Inc. 422,856; Aug. 13.
Periodicals published from time to time. Sutton Publishing Company, Inc. 422,850; Aug. 13.
Publication, Annual. Palomino Horse Breeders of America, Inc. 422,880; Aug. 13.
Publication, Periodical. Le Tourneau Foundation. 422,859; Aug. 13.
Publication, Weekly. New World Club, Inc. 422,891; Aug. 13.
Section in a monthly magazine. Nickerson & Collins Co. 422,876; Aug. 13.

CLASS 39

Apparel, Women's and children's wearing. Alice Frock Co. 422,738; Aug. 13; Serial No. 477,087; published Apr. 2, 1946.
Apparel, Women's and misses' wearing. Tailored Woman, Inc. 422,760; Aug. 13; Serial No. 486,879; published Apr. 16, 1946.
Bath robes, buntings, sleeping bags, etc., Infants' and children's. M. Eskind. 422,791; Aug. 13; Serial No. 491,318; published Apr. 16, 1946.
Belts, Trouser. Lyntone Company. 422,767; Aug. 13; Serial No. 488,275; published Apr. 16, 1946.
Blouses, Misses' and women's. Mayehoff Co. 422,808; Aug. 13; Serial No. 492,933; published May 14, 1946.
Boots, shoes, slippers, etc. Allied Manufacturing & Trading Co. 422,745; Aug. 13; Serial No. 479,160; published Apr. 16, 1946.
Clothing, Boys' and men's cotton work and play. Goldstone Brothers. 422,734; Aug. 13; Serial No. 473,983; published Apr. 3, 1945.
Clothing, Waterproof and rainproof. J. Weinberg and Sons. 212,301; renewed Apr. 27, 1946. O. G. Aug. 13.
Coats and suits, Ladies'. Gangel & Kitay, Inc. 422,817; Aug. 13; Serial No. 493,757; published May 14, 1946.
Corsets, corselets, girdles, etc. Vanity Corset Company, Inc. 422,735; Aug. 13; Serial No. 475,738; published May 7, 1946.
Dresses, aprons, slips, etc., Ladies', misses', and girls'. Meadtex Fabrics Co. 422,803; Aug. 13; Serial No. 492,724; published May 14, 1946.
Dresses, aprons, slips, etc., Ladies', misses', and girls'. Meadtex Fabrics Co. 422,804; Aug. 13; Serial No. 492,728; published May 14, 1946.
Dresses, aprons, slips, etc., Ladies', misses', and girls'. Meadtex Fabrics Co. 422,805; Aug. 13; Serial No. 492,732; published May 14, 1946.
Dresses, aprons, slips, etc., Ladies', misses', and girls'. Meadtex Fabrics Co. 422,806; Aug. 13; Serial No. 492,779; published May 14, 1946.

Garments, Fur. G. R. Foerster. 422,777; Aug. 13; Serial No. 489,061; published Apr. 16, 1946.
Girdles and corsets. Arista Foundation. 422,786; Aug. 13; Serial No. 490,623; published Apr. 16, 1946.
Gloves. Van Raalte Company, Inc. 422,771; Aug. 13; Serial No. 488,552; published Apr. 16, 1946.
Gloves, Leather, cotton and leather and cotton work. National Glove Company. 422,795; Aug. 13; Serial No. 491,494; published May 7, 1946.
Guards, Finger. Olympic Glove Company. 422,763; Aug. 13; Serial No. 487,431; published Apr. 2, 1946.
Hats, caps, and bonnets. Collins & Fairbanks Company. 50,926; re-renewed Apr. 3, 1946. O. G. Aug. 13.
Hats, Ladies'. Stetson Hats, Inc. 422,727; Aug. 13; Serial No. 461,575; published May 7, 1946.
Hats, Ladies' and misses'. Frankel and Wolff. 422,787; Aug. 13; Serial No. 490,803; published Apr. 16, 1946.
Hats, Ladies', misses' and children's. J. C. Marks Co. 422,731; Aug. 13; Serial No. 467,283; published Apr. 16, 1946.
Hats, Men's. Schoble Hats, Inc. 422,798; Aug. 13; Serial No. 492,227; published May 14, 1946.
Heels and soles of rubber, plastic, and rubber composition. Beebe Brothers Rubber Company. 422,736; Aug. 13; Serial No. 476,420; published Jan. 1, 1946.
Hosiery. Friedman Hosiery Company. 422,728; Aug. 13; Serial No. 462,641; published Oct. 24, 1944.
Hosiery. Mojud Hosiery Co., Inc. 422,789; Aug. 13; Serial No. 491,210; published Apr. 16, 1946.
Hosiery. National Hosiery Mills, Inc. 422,776; Aug. 13; Serial No. 488,658; published Feb. 5, 1946.
Jackets, skirts, blouses, etc., for ladies and misses. New Jaunty Sportswear, Inc. 422,751; Aug. 13; Serial No. 480,605; published June 26, 1945.
Kerchiefs, Twin. V. A. Lubin. 422,764; Aug. 13; Serial No. 487,786; published May 14, 1946.
Nets, Hair. S. Henry. 422,814; Aug. 13; Serial No. 493,353; published May 14, 1946.
Pajamas and night robes. Kaylon Incorporated. 422,775; Aug. 13; Serial No. 488,651; published Apr. 9, 1946.
Pantics. Empire Shield Company, Inc. 422,753; Aug. 13; Serial No. 482,983; published May 14, 1946.
Shoes. Julian & Kokenge Co. 422,793; Aug. 13; Serial No. 491,413; published Apr. 9, 1946.
Shoes. Town and Country Shoes. 422,788; Aug. 13; Serial No. 490,863; published Apr. 16, 1946.
Shoes, Leather. Dixon-Bartlett Company. 217,728; renewed Sept. 7, 1946. O. G. Aug. 13.
Shoes of leather, rubber fabric or combinations thereof, Infants'. Rasmussen Shoe Company. 422,730; Aug. 13; Serial No. 467,169; published Apr. 9, 1946.
Soles, Rubber, shoe. Wright & Crowley. 422,737; Aug. 13; Serial No. 477,086; published Apr. 16, 1946.
Suits and pants, Men's and young men's. Rose Brothers. 422,809; Aug. 13; Serial No. 492,958; published May 14, 1946.
Suits, leather coats and pants, etc., Flying. Bristol Manufacturing Corporation. 422,732; Aug. 13; Serial No. 472,500; published Apr. 16, 1946.
Suits, sport coats, and trousers, Men's. Baker Clothes. 422,741; Aug. 13; Serial No. 478,739; published Aug. 7, 1945.
Sweaters and sweater shirts. New York Knitting Mills. 422,792; Aug. 13; Serial No. 491,352; published Apr. 16, 1946.
Sweaters, scarfs, and hosiery, etc., Men's and women's. L. B. Strauss. 422,828; Aug. 13.
Topcoats and overcoats for men, youths, and boys. L. Greif & Bro., Incorporated. 216,509; renewed Aug. 10, 1946. O. G. Aug. 13.
Underwear, and knitted outerwear, Men's, boys' and children's. Associated Knitted Outerwear Mills. 422,785; Aug. 13; Serial No. 490,520; published May 7, 1946.
Underwear, Ladies'. Van Raalte Company, Inc. 422,807; Aug. 13; Serial No. 492,806; published May 14, 1946.
Underwear of knitted and textile fabrics, and infants' wrappers, etc. Shorewood Mills. 216,358; renewed Aug. 10, 1946. O. G. Aug. 13.

CLASS 42

Cloth in the gray, etc., Cotton duck. Palmetto Cotton Mills, Incorporated. 216,856; renewed Aug. 24, 1946. O. G. Aug. 13.
Cotton polishing cloths. James Kenyon & Son, Limited. 210,181; renewed Mar. 9, 1946. O. G. Aug. 13.
Ornamentation simulating beaded designs on cotton, silk, etc. Bakelite Corporation. 210,748; renewed Mar. 23, 1946. O. G. Aug. 13.
Ornamentation simulating beaded designs on cotton, silk, etc. Bakelite Corporation. 210,827; renewed Mar. 23, 1946. O. G. Aug. 13.
Piece goods of rayon and wool, and rayon, cotton, and combinations therefor. Bradford Dyeing Association (U. S. A.) 422,869–73; Aug. 13.

CLASS 45

Beverage, Nonalcoholic, maltless fruit. Chero-Cola Company. 215,464; renewed July 20, 1946. O. G. Aug. 13.

CLASS 46

Baking-powder. Jack Frost Baking Powder Co. 50,616; re-renewed Mar. 27, 1946. O. G. Aug. 13.
Cake. Carolina Baking Company. 213,360; renewed May 25, 1946. O. G. Aug. 13.
Candy and candy bars. Shotwell Mfg. Co. 217,755; renewed Sept. 7, 1946. O. G. Aug. 13.
Candy, cookies, and bakers' confections, etc. Zion Industries, Inc. 422,886; Aug. 13.
Canned berries, fruits and vegetables, dried currants, etc., Certain named. Foley Bros. Grocery Co. 210,900; renewed Mar. 23, 1946. O. G. Aug. 13.
Canned fruits and vegetables. Wayne County Preserving Co. 53,296–7; re-renewed May 29, 1946. O. G. Aug. 13.
Canned fruits and vegetables. Wayne County Preserving Co. 54,399; re-renewed June 26, 1946. O. G. Aug. 13.
Canned sardines. Reid, Murdoch & Co. 214,777; renewed July 6, 1946. O. G. Aug. 13.
Coffee. Meyer Brothers Coffee and Spice Company. 52,209; re-renewed May 1, 1946. O. G. Aug. 13.
Coffee. Woolson Spice Company. 55,627; re-renewed Aug. 21, 1946. O. G. Aug. 13.
Coffee. Woolsen Spice Company. 56,101; re-renewed Aug. 21, 1946. O. G. Aug. 13.
Dough, Pastry. E. M. Upton. 422,844; Aug. 13.
Dressing, French. Pruitt Food Products. 422,897; Aug. 13.
Fish, Salted and boneless. J. W. Beardsley's Sons. 28,690; re-renewed July 28, 1946. O. G. Aug. 13.
Fish, Salted and boneless. J. W. Beardsley's Sons. 54,554; re-renewed June 26, 1946. O. G. Aug. 13.
Flour, Wheat. H. H. Cook. 217,708; renewed Sept. 7, 1946. O. G. Aug. 13.
Food for dogs. Spillers Victoria Foods, Limited. 215,395; renewed July 20, 1946. O. G. Aug. 13.
Fruits, vegetables, and berries, Quick frozen. Seabrook Farms Co. 422,875; Aug. 13.
Gelatin. C. B. Knox. 47,652; re-renewed Nov. 14, 1945. O. G. Aug. 13.
Pastes, Alimentary. F. Pepe Macaroni Co. Inc. 215,131; renewed July 13, 1946. O. G. Aug. 13.
Pickles. W. & W. Pickle and Canning Company. 217,090–1; renewed Aug. 24, 1946. O. G. Aug. 13.

CLASS 47

Wine. A. C. Colucci. 422,898; Aug. 13.
Wines. Roma Wine Company. 422,849; Aug. 13.

CLASS 48

Lager-beer. Joseph Schlitz Brewing Company. 52,011; re-renewed May 1, 1946. O. G. Aug. 13.

CLASS 49

Liqueur. Mar-Salle Chicago Company. 422,845; Aug. 13.
Liqueur. V Fruit Brandy Company. 422,866; Aug. 13.

CLASS 50

Fabrics in the nature of artificial leather, Coated and impregnated. Kenworthy Brothers Company. 215,595; renewed July 20, 1946. O. G. Aug. 13.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Betz, William G., Orlando, Fla., assignor to Pratt, Read & Company, Ivoryton, Conn. Piano action. Re. 22,777; Aug. 13.

Elliott, Burr B., assignor to Isaacson Iron Works, Seattle, Wash. Apparatus for sterilizing soil. Re. 22,778; Aug. 13.

Isaacson Iron Works, assignee: *See*—
Elliott, Burr B.

Pratt, Read & Company, assignee: *See*—
Betz, William G.

Swift, Willard E., Jr., Worcester, Mass. Torque amplifier. Re. 22,779; Aug. 13.

Union Switch & Signal Company, The, assignee: *See*—
Van Horn, James J.

Van Horn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. Re. 22,780; Aug. 13.

LIST OF DESIGN PATENTEES

Adel Precision Products Corp., assignee: *See*—
Storm, Frederick K.

Anderson, Thomas F., assignor to The Sanymetal Products Co. Inc., Cleveland, Ohio. Shower cabinet. 145,374; Aug. 13.

Artzt, Peter, New York, N. Y. Hourglass unit. 145,375; Aug. 13.

Berger, Arthur M., New York, N. Y. Uniform. 145,376; Aug. 13.

Broadwell, Harry M., Bristol, Conn. Clothespin or the like. 145,377; Aug. 13.

Bunting, Earl, Winchester, Va. Rubber heel. 145,378; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,379; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,380; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,381; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,382; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,383; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,384; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,385; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,386; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,387; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,388; Aug. 13.

Carpadus, Leah, New York, N. Y. Towel or similar article. 145,389; Aug. 13.

Cartier, Inc., assignee: *See*—
Graeter, Harold.

Cohen, Charles C., New York, N. Y. Clock toy or similar article. 145,390; Aug. 13.

Cosme, Peter A., Chicago, Ill. Sand box. 145,391; Aug. 13.

Daelemans, George: *See*—
Nierenberg, Theodore D., and Daelemans.

Etched Products Corporation, assignee: *See*—
Nierenberg, Theodore D., and Daelemans.

Farber, Lillian, Toronto, Ontario, Canada, assignor, by mesne assignments, to Noell Products Company, New York, N. Y. Hand mirror. 145,392; Aug. 13.

Folke, Bengt E., Mamaroneck and R. H. Shepard, assignors to Nathan Manufacturing Company, New York, N. Y. Mechanical lubricator. 145,393; Aug. 13.

Graeter, Harold, Sherman, Conn., assignor to Cartier, Inc., New York, N. Y. Combined lapel pin and perfume container. 145,394; Aug. 13.

Grosvenor, Richard B., Piqua, Ohio. Infant's toy figure, or similar article. 145,395; Aug. 13.

Hagquist, Bernard C.: *See*—
Meek, Melvin J., and Hagquist.

Lange, Albert, New York, N. Y. Towel or similar article. 145,396; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,397; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,398; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,399; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,400; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,401; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,402; Aug. 13.

Lange, Albert, New York, N. Y. Towel or similar article. 145,403; Aug. 13.

McGee, Mary C., Hempstead, N. Y. Tablecloth or similar article. 145,404; Aug. 13.

Meek, Melvin J., and B. C. Hagquist, South Bend, Ind. Fishing net. 145,405; Aug. 13.

Meyer, Paul H., assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 145,406; Aug. 13.

Miller, Jerome J., Ottoville, Ohio. Toy airplane. 145,407; Aug. 13.

Mysels, George, New York, N. Y. Set of picture game pieces. 145,408; Aug. 13.

Naidish, Abraham, New York, N. Y. Sweater. 145,409; Aug. 13.

Nathan Manufacturing Company, assignee: *See*—
Folke, Bengt E., and Shepard.

Nierenberg, Theodore D., and G. Daelemans, Dayton, Ohio, assignors to Etched Products Corporation, Long Island City, N. Y. Combined toaster and hot plate. 145,410; Aug. 13.

Noell Products Company, assignee: *See*—
Farber, Lillian.

Sanymetal Products Co. Inc., assignee: *See*—
Anderson, Thomas F.

Shepard, Ralph H.: *See*—
Folke, Bengt E., and Shepard.

Smith, William N., Dallas, Tex. Cotton harvesting machine. 145,411; Aug. 13.

Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Medico-surgical camera casing. 145,412; Aug. 13.

Thomas, Romulus B., Springfield, Ill. Hooded light meter. 145,413; Aug. 13.

U. S. Slicing Machine Company, assignee: *See*—
Meyer, Paul H.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aaberg, Quentin J., Angleton, Tex. Grain carrier. 2,405,727; Aug. 13.
Acme Steel Company, assignee: *See*—
Spiller, William R., and Niederhauser.
Acton, Russel D.: *See*—
Bechman, William O., Land, and Acton.
Adams, Charles R., and C. B. Clark, assignors to Kingsbury Machine Tool Corporation, Keene, N. H. Chuck assembly. 2,405,772; Aug. 13.
Addressograph-Multigraph Corporation, assignee: *See*—
Gollwitzer, Walter T.
Admiral Corporation, assignee: *See*—
Pfaff, Ernest R.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Filachione, Edward M., and Fisher.
Agriculture, United States of America, as represented by the Secretary of, and his successors in office, assignee: *See*—
Gertler, Samuel I.
Agriculture, United States of America, as represented by Claude R. Wickard, Secretary of, and his successors in office, assignee: *See*—
Irving, George W., Jr., Merrifield, Burnett, and Parker.
Air-Maze Corporation, assignee: *See*—
Schaaf, Oliver H.
Albertoli, John, San Francisco, Calif. Oval can feed. 2,405,805; Aug. 13.
Albrecht, Otto, Neue-Welt, near Basel, C. Graenacher, Riehen, R. Sallmann, Bottmingen, and C. Rossi, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Derivatives of resinous ethers of hydroxyaryl compounds. 2,405,806; Aug. 13.
Albright & Wilson Limited, assignee: *See*—
Tod, Charles W.
Alien Property Custodian: *See*—
Bonnefoy-Cudraz, Emile R.
Waseige, Charles R.
Allen, Andrew B., Ochre River, Manitoba, Canada. Cultivator wheel. 2,405,630; Aug. 13.
Allied Laboratories, Inc., assignee: *See*—
Faith, Herman E.
Allison, Donald K., Beverly Hills, Calif. Ozonizing liquids. 2,405,553; Aug. 13.
Allison, Donald K., Beverly Hills, Calif. Ozonizer. 2,405,728; Aug. 13.
Almy, Richard, Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Platform sole for shoes. 2,405,870; Aug. 13.
Altman, Fred E., assignor to Eastman Kodak Company, Rochester, N. Y. Four-component objective. 2,405,729; Aug. 13.
Anaconda Wire and Cable Company, assignee: *See*—
Rosch, Samuel J.
Anderson, Frank E.: *See*—
Schliwa, Adolph M., and Anderson.
Anderson, John: *See*—
Bullard, Edwin F., Anderson, and McAllister.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Fawcett, Eric W. M., and Jenkins.
Anjeskey, Alphonse F., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Assembling airplanes and the like. 2,405,544; Aug. 13.
Antos, George, and E. Weber, New York, N. Y. Automatic clutch. 2,405,545; Aug. 13.
Appleton Electric Company, assignee: *See*—
Tornblom, Nils A.
Arant, Perry, assignor to Clayton Manufacturing Company, Alhambra, Calif. Burner control system. 2,405,807; Aug. 13.
Archer, Merton T., Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa. Well drilling plant. 2,405,546; Aug. 13.
Armagost, Harold C., Temple City, Calif. Ingrown nail correcting device. 2,405,547; Aug. 13.
Armbright, Harry A., Lansdowne, Pa. Demonstration layout planner. 2,405,808; Aug. 13.
Armstrong Cork Company, assignee: *See*—
Almy, Richards.
Attwood, Charles W., Wayne, Mich. Drying oven. 2,405,631; Aug. 13.
Automatic Electric Laboratories, Inc., assignee: *See*—
Taylor, Reginald, and Baker.
Avis, Harlette M., administratrix: *See*—
Avis, Samuel W.
Avis, Samuel W., deceased, by H. M. Avis, administratrix, Wellesley, Mass., assignor to The Reece Corporation. Sewing machine. 2,405,871; Aug. 13.

Ayers, George W., Chicago, and D. M. Barton, Elmwood Park, assignors to The Pure Oil Company, Chicago, Ill. Removing weakly acidic sulphur compounds from hydrocarbon oil. 2,405,872; Aug. 13.
B. B. Chemical Co., assignee: *See*—
Nugent, Frederick V.
Bagshaw, Charles M., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Counter pasting machine. 2,405,548; Aug. 13.
Baker, George T.: *See*—
Taylor, Reginald, and Baker.
Baker-Raulang Company, The, assignee: *See*—
Stoner, Frank.
Baldwin, Wayne A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,405,632; Aug. 13.
Banks, William B.: *See*—
Feeney, Joseph C., and Banks.
Bankson, William R., Pittsburgh, Pa. Mail box fitting. 2,405,730; Aug. 13.
Barbour, Charles W., Jr., Marblehead, assignor to Submarine Signal Company, Boston, Mass. Mounting stack. 2,405,554; Aug. 13.
Barker, Lyle M., and E. G. Lewis, Ajo, Ariz., assignors to Phelps Dodge Corporation, New York, N. Y. Grinding mill. 2,405,633; Aug. 13.
Barrett, John H., assignor to The La Pointe Machine Tool Company, Hudson, Mass. Magnetic fixture. 2,405,773; Aug. 13.
Barton, Daniel M.: *See*—
Ayers, George W., and Barton.
Bastian Blessing Co., The, assignee: *See*—
Poethig, Robert E.
Batterman, Carl H., Gering, Nebr. Level indicator for contour plowing. 2,405,634; Aug. 13.
Bechler, André, Moutier, Switzerland. Device for retarding the disengagement of an automatic machine. 2,405,635; Aug. 13.
Bechman, William O., H. A. Land, and R. D. Acton, Chicago, Ill., assignors to International Harvester Company. Final drive structure for crawler tractors. 2,405,549; Aug. 13.
Beck, William R., assignor to Goodman Manufacturing Company, Chicago, Ill. Coal mine haulage vehicle. 2,405,636; Aug. 13.
Beggs, Joseph S., Schenectady, and D. B. McRae, and J. H. Eagle, assignors to Eastman Kodak Company, Rochester, N. Y. Variable circle for stadiametric range finders. 2,405,731; Aug. 13.
Behrens, Herbert C., Haddon Heights, assignor to Samuel M. Langston Co., Camden, N. J. Mill rod stand. 2,405,637; Aug. 13.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Dehn, Joseph W.
Fitch, Karl E., and Locke.
Goodale, Walter D., Jr., and Romanow.
Mallina, Rudolph F.
Mason, Warren P.
Miller, Ohmer R.
Mitchell, Doren.
Parker, Ralzemond D., Rea, and Singer.
Pope, Thomas J.
Samuel, Arthur L.
Schelkunoff, Sergei A.
Singer, Fred J.
Smith, Edward M.
Bement, Nahum C., Rockford, Ill. Positive drive differential. 2,405,732; Aug. 13.
Bendix Aviation Corporation, assignee: *See*—
Frei, Jakob R.
Wald, Gerson E.
Bennett, Frank P.: *See*—
Musebeck, George E., and Bennett.
Berejkoff, Anatole P., Schenectady, N. Y., assignor to General Electric Company. Indicator lamp. 2,405,809; Aug. 13.
Berg, Bennie L., Madison, Wis., and C. E. Watson, La Grange, Ill.; said Watson assignor to said Berg. Dock roller for boats and the like. 2,405,810; Aug. 13.
Bergel, Franz, N. C. Hindley, A. L. Morrison, and H. Rinderknecht, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of heterocyclic bases. 2,405,555; Aug. 13.
Better Packages Incorporated, assignee: *See*—
Krueger, Theodore H.
Bewley, Jess F.: *See*—
Lazarus, George H., Jr., and Bewley.

Beyer, Edwin A., Buffalo, N. Y. Device for cleaning floors. 2,405,811; Aug. 13.
Bickness, Frank A.: *See*—
Bishop, Benjamin S. T., and Bicknell.
Bilek, Frank J., assignor to The Globe Company, Chicago, Ill. Poultry shackle. 2,405,638; Aug. 13.
Binder, Thomas W., Maplewood, N. J. Air conditioning. 2,405,812; Aug. 13.
Bishop, Benjamin S. T., Shrewsbury, and F. A. Bicknell, assignors to Leland-Gifford Company, Worcester, Mass. Profile milling machine. 2,405,550; Aug. 13.
Bishop, Benjamin S. T., Shrewsbury, and F. A. Bicknell, assignors to Leland-Gifford Company, Worcester, Mass. Grinding wheel truing apparatus. 2,405,551; Aug. 13.
Blakeslee, Clinton A., assignor to The Bristol Company, Waterbury, Conn. Control apparatus. 2,405,774; Aug. 13.
Blanchard, Charles E., Randolph, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Drier. 2,405,813; Aug. 13.
Bliss, E. W., Company, assignee: *See*—
Cannon, Earl.
Blumenfeld, Joseph, New York, N. Y. Preparation of alpha-hydroxy carboxylic acids. 2,405,873; Aug. 13.
Blumlein, Alan D., Ealing, London, W. 5, and E. L. C. White, Hillingdon, assignors to Electric & Musical Industries, Limited, Hayes, England. Pulse generating thermionic valve apparatus. 2,405,552; Aug. 13.
Boerner, Lewis W.: *See*—
Hogenmiller, Francis J., Boyd, and Boerner.
Bogle, Homer T., U. S. Navy. Aircraft landing net. 2,405,556; Aug. 13.
Bogoslowsky, Boris, Jackson Heights, N. Y. Container. 2,405,682; Aug. 13.
Boldt, Werner F., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Variable pneumatic dampener for struts. 2,405,733; Aug. 13.
Bonnefoy-Cudraz, Emile R., Courbevoie, France; vested in the Alien Property Custodian. Apparatus for manufacturing hollow glass articles. 2,405,557; Aug. 13.
Boosey, Edward W. N., Detroit, Mich. Vacuum breaker. 2,405,639; Aug. 13.
Boral, Emil: *See*—
Florjancic, Peter, and Boral.
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene polymer. 2,405,558; Aug. 13.
Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compositions of matter. 2,405,559; Aug. 13.
Boyd, Fisher L.: *See*—
Hogenmiller, Francis J., Boyd, and Boerner.
Bozeman, Peter, assignee: *See*—
Williams, Louis H.
Bradley, William E., assignor to Union Oil Company of California, Los Angeles, Calif. Insecticide and fungicide. 2,405,775; Aug. 13.
Brannin, James W., Cambridge, Mass., assignor, by mesne assignments, to the Government of the United States of America as represented by the Secretary of the Navy. Echo box resonance tester. 2,405,814; Aug. 13.
Brearley Company, The, assignee: *See*—
Sutton, John C.
Brickmer, Arthur J., assignee: *See*—
Johnson, William.
Briskin, Theodore S., assignor to Revere Camera Company, Chicago, Ill. Knob. 2,405,683; Aug. 13.
Bristol Company, The, assignee: *See*—
Blakeslee, Clinton A.
Swarr, Jay N.
Brolinson, Bengt G., New York, N. Y. Anode for the electrolytic protection of closed containers. 2,405,776; Aug. 13.
Bryn Mawr Laboratory, assignee: *See*—
Gamma, John A.
Bucher, Max; assignee: *See*—
Florjancic, Peter, and Boral.
Buckley Mustic System, Inc., assignee: *See*—
Henry, Earle G.
Budd, Edward G. Manufacturing Company, assignee: *See*—
Elwert, George.
Ledwinka, Joseph, and Trautvetter.
Somes, Howard E.
Watter, Michael.
Buechek, John, Kokomo, Ind. Dough twisting machine. 2,405,684; Aug. 13.
Bulvid, Michel D., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Foldable rotor. 2,405,777; Aug. 13.
Bullard, Edwin F., Oakland, J. Anderson, Berkeley, and S. H. McAllister, Lafayette, assignors to Shell Development Company, San Francisco, Calif. Alkylation of aromatic hydrocarbons. 2,405,874; Aug. 13.
Burnett, Raymond S.: *See*—
Irving, George W., Jr., Merrifield, Burnett, and Parker.
Cammack, Loretta A., assignee: *See*—
Kehoe, Joseph J.
Campbell, John M., assignor to General Motors Corporation, Detroit, Mich. Fuel. 2,405,560; Aug. 13.
Cannon, Earl, Rockville Centre, assignor to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for controlling the slide movement in long-bed hydraulic presses. 2,405,640; Aug. 13.
Cantrell, Frank J., assignor of 49 per cent to Eleanor J. Koch, San Francisco, Calif. Window jack. 2,405,685; Aug. 13.
Carlile, Alfred E., Great Neck, N. Y., assignor to Talon, Inc. Reversible automatic lock slider. 2,405,875; Aug. 13.
Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp holder. 2,405,815; Aug. 13.
Catalin Corporation of America, assignee: *See*—
Magrane, John K., Esterly, and Davies.
Celanese Corporation of America, assignee: *See*—
Platt, Herbert, and Croft.
Chemical Foundation, Incorporated, The, assignee: *See*—
Hixson, Arthur W., and Miller.
Cherry Rivet Company, assignee: *See*—
Shaff, Ernest H.
Cierva Autogiro Company Limited, The, assignee: *See*—
Pullin, Cyril G.
Clark, Carleton B.: *See*—
Adams, Charles R., and Clark.
Clark, Robert H., Solon, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,405,686; Aug. 13.
Clayton Manufacturing Company, assignee: *See*—
Arant, Perry.
Cleaver, William F., Westmount, Quebec, Canada. Calculating device. 2,405,687; Aug. 13.
Cleveland Crane & Engineering Company, The, assignee: *See*—
Anjeskey, Alphonse F.
Coe, Harrison S., Palo Alto, Calif. Pumping apparatus. 2,405,734; Aug. 13.
Conterman, Fred A., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Roll pressure adjuster for wringers. 2,405,641; Aug. 13.
Conzetti, Achille, assignor to J. R. Geigy A. G., Basel, Switzerland. O:O'dihydroxy azo dyestuffs and their manufacture. 2,405,816; Aug. 13.
Cooke, Giles B.: *See*—
McManus, Charles E., Elder, Cooke, and Dornblatt.
Cornish, Irving R.: *See*—
Paxton, John W., and Cornish.
Corte, Alfred, Glendale, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Power gun turret driving mechanism. 2,405,642; Aug. 13.
Cottrell, C. B., & Sons Company, assignee: *See*—
Luehrs, Hans J.
Couch, S. H., Company, Inc., assignee: *See*—
Crockett, William P.
Cox and Stevens Aircraft Corporation, assignee: *See*—
Thurston, Arthur L.
Crane Co., assignee: *See*—
Marshall, William A., Jr.
Crawford, Francis, Scarsdale, N. Y. Die structure for bending sheet metal. 2,405,778; Aug. 13.
Crockett, William P., Chicago, Ill., assignor to S. H. Couch Company, Inc., North Quincy, Mass. Hospital plug connection. 2,405,735; Aug. 13.
Croft, Cyril M.: *See*—
Platt, Herbert, and Croft.
Crooks, Louis G.: *See*—
Daily, Robert A., and Crooks.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Variable dot keyer. 2,405,876; Aug. 13.
Crot, André, Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Structural connector. 2,405,643; Aug. 13.
Crown Cork & Seal Company, Inc., assignee: *See*—
McManus, Charles E., Elder, Cooke, and Dornblatt.
Crumb, Charles F., Clarendon Hill, Ill., assignor to International Harvester Company. Tier. 2,405,688; Aug. 13.
Cushman Sons Inc., assignee: *See*—
MacManus, John.
Daily, Robert A., and L. G. Crooks, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Nonspill vent plug. 2,405,736; Aug. 13.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Copolymer of styrene and fusible partial polymer of divinyl benzene. 2,405,817; Aug. 13.
Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,405,644; Aug. 13.
Davies, Richard E.: *See*—
Magrane, John K., Esterly, and Davies.
Davis, Jack, El Dorado, Kans. Tool for installing nut plates or the like. 2,405,779; Aug. 13.
De Giers, Clarence A., Forest Hills, assignor to The Liquidometer Corporation, Long Island City, N. Y. Plural transmission means for electrical telemetric systems. 2,405,689; Aug. 13.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Certain sulphosuccinates and making same. 2,405,737; Aug. 13.

Dehn, Joseph W., Great Neck, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cryptographic telegraph system. 2,405,570; Aug. 13.

Deinet, Joseph: *See*—
Lee, Henry R., Deinet, and Gottlieb.

Delano, William R. P., Syosset, assignor to Gallowhur Chemical Corporation, New York, N. Y. Apparatus for solar distillation. 2,405,877; Aug. 13.

Dempster, Alexander: *See*—
Lederer, Karl M., and Dempster.

Denniston, Adolph L., Plainfield, N. J., and S. H. Martin, Thomaston, Conn., assignors to General Time Instruments Corporation, New York, N. Y. Lock disk for timing systems. 2,405,818; Aug. 13.

Dettman, Harold V., Riverside, Ill. Die machine for progressive sheet metal forming. 2,405,738; Aug. 13.

Dew, Arthur W., Jackson, Mich. Game register. 2,405,690; Aug. 13.

Dole Refrigerating Company, assignee: *See*—
Kleist, Herman W.

Dornblatt, Albert J.: *See*—
McManus, Charles E., Elder, Cooke, and Dornblatt.

Dow Chemical Company, The, assignee: *See*—
Keller, Cornelius H.

Duguid, Robert J., Aberdeen, Scotland. Apparatus for processing photographic films. 2,405,645; Aug. 13.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bousquet, Euclid W.
Hamill, William H., and Vogt.
Lee, Henry R., Deinet, and Gottlieb.
Wilder, Frank N.

Dustman, Herman U., Miami, Ariz. Support. 2,405,819; Aug. 13.

Eagle, John H.: *See*—
Beggs, Joseph S., McRae, and Eagle.

Eastman Kodak Company, assignee: *See*—
Altman, Fred E.
Beggs, Joseph S., McRae, and Eagle.
Evans, Ralph M., and Hanson.
Fuerst, Carl C.
Murray, Alexander.

Eastman Oil Well Survey Company, assignee: *See*—
Schadel, Charles H.

Egedal, Lawrence E., Milwaukee, Wis. Grain processing machine. 2,405,561; Aug. 13.

Elder, John D.: *See*—
McManus, Charles E., Elder, Cooke, and Dornblatt.

Electric & Musical Industries Limited, assignee: *See*—
Blumlein, Alan D., and White.

Electro Metallurgical Company, assignee: *See*—
Norwood, Stanley M.

Electrolux Corporation, assignee: *See*—
Wahlberg, Eric C.

Ellerbeck, Grant C., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Apparatus for printing. 2,405,562; Aug. 13.

Elliott Bay Mill Co., assignee: *See*—
Miller, William J.

Ellis, Charles E., Mahwah, N. J., assignor to Sedgwick Machine Works, Inc., Poughkeepsie, N. Y. Elevator. 2,405,691; Aug. 13.

Elwert, George, Conshohocken, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Aircraft ramp operating means. 2,405,878; Aug. 13.

Emery, Elliott G., Jr.: *See*—
Minshall, Robert J., Laudan, and Emery.

Emigh, John H.: *See*—
Priepke, Rudolf J., Emigh, and Pike.

Enright, Daniel J., Rochester, N. Y. Carburetor. 2,405,563; Aug. 13.

Esterly, Amos R.: *See*—
Magrane, Hohn K., Esterly, and Davies.

Evans, Guy J., Buffalo, N. Y. Folding box. 2,405,564; Aug. 13.

Evans, Ralph M., and W. T. Hanson, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Photographic tone correction mask. 2,405,739; Aug. 13.

Even-Pul Foundations, Inc., assignee: *See*—
Rosner, Irving.

Faith, Herman E., Indianapolis, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. Production of methyl formylchloroacetate. 2,405,820; Aug. 13.

Fawcett, Eric W. M., and G. I. Jenkins, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Synthesis of hydrocarbons. 2,405,565; Aug. 13.

Feeney, Joseph C., Woodstock, and W. B. Banks, assignors to The Lord Baltimore Press, Baltimore, Md. Display holder. 2,405,780; Aug. 13.

Feigley, David A., Jr., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Preparing an oxygen liberating composition. 2,405,566; Aug. 13.

Feilbach, George I., assignee: *See*—
Volpe, Michael.

Ferla, John, East Orange, assignor to U. S. Asbestos Cement Pipe Company, Camden, N. J. Pipe joint. 2,405,567; Aug. 13.

Ferrill, Thomas M., Jr., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Indicating apparatus. 2,405,568; Aug. 13.

Ferris, William D., and C. R. Wolf, assignors to Frantz Manufacturing Co., Sterling, Ill. Garage door equipment. 2,405,821; Aug. 13.

Feurer Bros., Inc., assignee: *See*—
Feurer, Walther.

Feurer, Walther, Jackson Heights, assignor, by mesne assignments, to Feurer Bros., Inc., New York, N. Y. Adjustable watertight and dusttight watch crown. 2,405,928; Aug. 13.

Filachione, Edward M., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by Secretary of Agriculture. Manufacturing volatile esters of hydroxy carboxylic acids. 2,405,646; Aug. 13.

Fisher, Charles H.: *See*—
Filachione, Edward M., and Fisher.

Fitch, Karl E., Summit, N. J., and G. A. Locke, Glenwood Landing, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cryptographic telegraph system. 2,405,569; Aug. 13.

Fitch, Karl E., Summit, N. J., and G. A. Locke, Glenwood Landing, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cryptographic telegraph system. 2,405,571; Aug. 13.

Fletcher, Wendall M., Portland, Maine. Pie crust or like former. 2,405,781; Aug. 13.

Flier, Samuel, Springfield, Mass. Watch box pad. 2,405,880; Aug. 13.

Florjancic, Peter, and E. Boral, assignors to M. Bucher, Zurich, Switzerland. Heald shaft moton for hand looms. 2,405,782; Aug. 13.

Flosdorf, Earl W., Lansdowne, Pa. Agglutinogen derived from whooping cough organisms. 2,405,740; Aug. 13.

Foster, Louis W., Philadelphia, Pa. Garment belt. 2,405,647; Aug. 13.

Foster Wheeler Corporation, assignee: *See*—
Frisch, Martin.
Sampson, William.

Franck, George E., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Sealed flexible coupling. 2,405,822; Aug. 13.

Frantz Manufacturing Co., assignee: *See*—
Ferris, William D., and Wolf.

Fredricksen, Arthur F., Milwaukee, Wis. Candy decorating apparatus. 2,405,879; Aug. 13.

Frei, Jakob R., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Electrical connecting means and radio shielding means therefor. 2,405,881; Aug. 13.

Friden Calculating Machine Co., Inc., assignee: *See*—
Ellerbeck, Grant C.

Friedman, Herbert, Arlington, Va. Radiographic exposure meter. 2,405,572; Aug. 13.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,405,573; Aug. 13.

Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Flash lamp synchronizing apparatus. 2,405,741; Aug. 13.

Fulfer, Glen, San Francisco, Calif. Taping machine. 2,405,742; Aug. 13.

Gallowhur Chemical Corporation, assignee: *See*—
Delano, William R. P.

Gamma, John A., assignor to Bryn Mawr Laboratory, Chicago, Ill. Manufacture of amino acids. 2,405,574; Aug. 13.

Gardenhour, Allen J., Waynesboro, Pa. Electric heater. 2,405,783; Aug. 13.

Garrett Corporation, Airesearch Manufacturing Company division, The, assignee: *See*—
Jensen, Raymond W.

Gaylord, Paul C., New Brighton, N. Y., assignor to Grief Bros. Cooperage Corporation, Cleveland, Ohio. Container. 2,405,823; Aug. 13.

Gayring, Wallace F., Minoa, assignor to The Prosperity Company, Inc., Syracuse, N. Y. System of pressing laundered articles. 2,405,882; Aug. 13.

Gelgy, J. R., A. G., assignee: *See*—
Conzetti, Achille.
Krebser, Adolf.
Treboux, Jules.

Geltner, Daniel, Astoria, N. Y., assignor to Onyx Oil & Chemical Company. Derivatives of chlormethyl ethers of polyoxyethylene glycols and producing same. 2,405,784; Aug. 13.

General Electric Company, assignee: *See*—
Berejkoff, Anatole P.
Cartun, Paul O.
D'Alello, Gaetano F.
Moe, William W.

General Foods Corporation, assignee: *See*—
Southwick, Charles A., Jr., and Stagmeier.

General Motors Corporation, assignee: *See*—
Campbell, John M.
Dally, Robert A., and Crooks.
Rataiczak, Francis I.
Sampson, Frederick W.

General Time Instruments Corporation, assignee: *See*—
Denniston, Adolph L., and Martin.
Lorenz, Pichard L.

Gertler, Samuel I., Washington, D. C., assignor to United States of America as represented by the Secretary of Agriculture and his successors in office. Insecticidal compositions. 2,405,743; Aug. 13.

Gillette Safety Razor Company, assignee: *See*—
Testi, Nicholas.

Girdler Corporation, The, assignee: *See*—
Reitmeier, Ronald E.

Glass, Sigmund, Zurich, Switzerland. Double luggage bag for cycles. 2,405,744; Aug. 13.

Globe Company, The, assignee: *See*—
Bilek, Frank J.

Goddard, Ester C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md.; E. C. Goddard, executrix, assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Combustion chamber. 2,405,785; Aug. 13.

Goldberg, Harold, Irondequoit, and W. C. Thompson, assignors to Stromberg-Carlson Company, Rochester, N. Y. Synchronizing arrangement for locator system. 2,405,930; Aug. 13.

Gollwitzer, Walter T., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 2,405,786; Aug. 13.

Goodale, Walter D., Jr., Convent Station, and F. F. Romanow, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal translating device. 2,405,605; Aug. 13.

Goodman Manufacturing Company, assignee: *See*—
Beck, William R.

Gorton, George, Machine Co., assignee: *See*—
Miller, Theodore.

Gottlieb, Hans B.: *See*—
Lee, Henry R., Deinet, and Gottlieb.

Gould, Clarence D., Bronx, N. Y., assignor to Talon, Inc. Reversible automatic lock slider. 2,405,883; Aug. 13.

Graenacher, Charles: *See*—
Albrecht, Otto, Graenacher, Sallmann, and Rossi.

Grafton, Bernard, Brooklyn, N. Y. Leak-proof fountain pen. 2,405,787; Aug. 13.

Gray, Robert E., Detroit, Mich. Taper hole gauge. 2,405,648; Aug. 13.

Greenlee, William E.: *See*—
Heath, Samuel, and Greenlee

Greger, Herbert H., Washington, D. C. Preparing aluminum phosphates. 2,405,884; Aug. 13.

Gregory, James: *See*—
Quilter, John R. C., and Gregory.

Grether, Hermann E., Camarillo, Calif. Fertilizer distributor. 2,405,824; Aug. 13.

Grief Bros. Cooperage Corporation, assignee: *See*—
Gaylord, Paul C.

Grunow, Alfred, Nutley, N. J. Die set. 2,405,825; Aug. 13.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Gwaltney, Eugene C., Biddeford, and H. R. Marsh, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Yarn tensioning device. 2,405,885; Aug. 13.

Haager, Paul L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing mounting. 2,405,745; Aug. 13.

Hall, John R., Chicago, Ill., assignor to International Harvester Company. Grinding mill. 2,405,692; Aug. 13.

Hamill, William H., and R. R. Vogt, Notre Dame, Ind., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Acetylene solutions. 2,405,693; Aug. 13.

Hammerschlag, Heinz B., assignee: *See*—
Henschel, Heinz.

Hammon, James H., Vincennes, Ind. Multifocal ophthalmic lens blank. 2,405,826; Aug. 13.

Hanson, Wesley T., Jr.: *See*—
Evans, Ralph M., and Hanson.

Hantjopoulos, George, New York, N. Y. Device for salvage of ships by compressed air. 2,405,649; Aug. 13.

Happe, Reynold, Pittstown, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Portable electric tool. 2,405,827; Aug. 13.

Hardman, Albert F., assignor to Wingfoot Corporation, Akron, Ohio. New products. 2,405,886; Aug. 13.

Hartford National Bank and Trust Company, assignee: *See*—
Ziegler, Marc.

Hartwig, Carl E., Teaneck, and R. E. Roehrenbeck, Lyndhurst, N. J., assignors to Swan-Finch Oil Corporation, New York, N. Y. Core for metallic casting and composition for same. 2,405,650; Aug. 13.

Hayes, Harvey C., and H. L. Saxton, Washington, D. C. Driver for electroacoustic transducers. 2,405,575; Aug. 13.

Heath, Samuel and W. E. Greenlee, Philadelphia, Pa. Hosiery drier. 2,405,746; Aug. 13.

Height, Lewis H., Eagle Rock, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Retractable landing gear. 2,405,651; Aug. 13.

Henderson, Lawrence M.: *See*—
Schindler, Hans, and Henderson.

Henry, Earle G., Wilmette, Ill., assignor to Buckley Music System, Inc. Mercury switch relay. 2,405,923; Aug. 13.

Henschel, Heinz, assignor of one-half to H. B. Hammerschlag, Johannesburg, Transvaal, Union of South Africa. Shirt collar. 2,405,788; Aug. 13.

Hercules Powder Company, assignee: *See*—
Borglin, Joseph N.
Smith, Roscoe B., and Latimer.

Herzmark, Nicolas, Indianapolis, Ind. Defense system. 2,405,694; Aug. 13.

Heyman, Moses D., Cedarhurst, assignor, by mesne assignments, to Integrated Mica Corporation, Woodmere, N. Y. Integrated mica and making the same. 2,405,576; Aug. 13.

Hilblom, Samuel E.: *See*—
Hitchcock, Rex B., and Hilblom.

Hindley, Nathan C.: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.

Hitchcock, Rex B., Evanston, and S. E. Hilblom, Chicago, Ill., assignors to International Harvester Company. Ensilage blower having swinging feed hopper. 2,405,695; Aug. 13.

Hixson, Arthur W., Leonia, N. J., and R. Miller, Woodside, Long Island, N. Y., assignors to The Chemical Foundation, Incorporated. Recovery of acidic gases. 2,405,747; Aug. 13.

Hlavin, William S.: *See*—
Sigmund, Frank J., and Hlavin.

Hoelzgen, Fred, Saginaw, Mich. Dump car construction. 2,405,696; Aug. 13.

Hoffman, Carl, De Kalb, Ill. Refrigerator door opener. 2,405,887; Aug. 13.

Hoffmann-La Roche Inc., assignee: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.

Hogenmiller, Francis J., Philadelphia, F. L. Boyd, West Chester, and L. W. Boerner, Newton Square, assignors to National Foam System, Inc., Philadelphia, Pa. Fire extinguishing apparatus. 2,405,652; Aug. 13.

Holder, Karl, Laurinburg, N. C. Safety razor. 2,405,577; Aug. 13.

Holley, Earl, assignee, et al.: *See*—
Holley, George M., Jr.

Holley, George M., et al., assignee: *See*—
Holley, George M., Jr.

Holley, George M., Jr., Grosse Pointe, Mich., assignor to G. M. and E. Holley. Fuel control valve. 2,405,888; Aug. 13.

Holmes, Ernest, Company, assignee: *See*—
Holmes, Ernest W.

Holmes, Ernest W., Chattanooga, Tenn., S. B. Strang, administrator of said E. M. Holmes, deceased, assignor to Ernest Holmes Company, Chattanooga, Tenn. Hoisting apparatus. 2,405,578; Aug. 13.

Homrighous, John H., Oak Park, Ill. Multifilament lamp. 2,405,789; Aug. 13.

Huguley, William C., Belleville, N. J. Apparatus for arc welding. 2,405,828; Aug. 13.

Humphrey, John B.: *See*—
Houston, Howard G., and Humphrey.

Hunt, Jesse B., Sr., Raleigh, N. C. Contraction joint assembly. 2,405,654; Aug. 13.

Hunter, Joseph L., Riverside, Calif. Venetian blind tape. 2,405,579; Aug. 13.

Hurley, Samuel C., Jr., Danville, Ill. Sorting chute. 2,405,829; Aug. 13.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.

Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George E.

Industrial Tape Corporation, assignee: *See*—
Priepke, Rudolf J., Emigh, and Pike.

Integrated Mica Corporation, assignee: *See*—
Heyman, Moses D.

International Cigar Machinery Company, assignee: *See*—
Bechman, William O., Land, and Acton.
Crumb, Charles F.
Hall, John R.
Hitchcock, Rex B., and Hilblom.
Wheeler, Henry H.

Irving, George W., Jr., A. L. Merrifield, R. S. Burnett, and E. D. Parker, New Orleans, La., assignors to the United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Recovering peanut protein. 2,405,830; Aug. 13.

Jackson, Carey B., Forest Hills, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Producing alkali metal oxides. 2,405,580; Aug. 13.

Jameson, Charles M., Battle Creek, Mich. Dog clutch. 2,405,698; Aug. 13.

Jamestown Metal Equipment Company, Inc., assignee: *See*—
Conterman, Fred A.

Jenkins, Gwilym I.: *See*—
Fawcett, Eric W. M., and Jenkins.

Jensen, Raymond W., assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif. Temperature and pressure control. 2,405,831; Aug. 13.

Johnson, Otto E., Chicago, Ill. Wringer. 2,405,832; Aug. 13.

Johnson, William, assignor of one-third to A. J. Brickmer, and one-third to H. W. Kropf, Muskegon Heights, Mich. Internal grinder. 2,405,748; Aug. 13.

Johnston, Brooks E., Chicago, Ill. Structure for loading trailers on flatcars. 2,405,833; Aug. 13.
Kalva Venders, Inc., assignee: *See*—
Larimore, Harvey T.
Kannee, Henry M., assignee: *See*—
Lampe, Charles E., Sr.
Keene, Samuel I., assignee: *See*—
Seitz, John G.
Kehoe, Joseph J., Newark, assignor to L. A. Cammack, East Orange, N. J. Permanent separating magnet. 2,405,655; Aug. 13.
Keiser, Bernhard: *See*—
De Groote, Melvin, and Keiser.
Keller, Cornelius H., San Francisco, Calif., assignor to The Dow Chemical Company, Midland, Mich. Flotation of sulphide ores. 2,405,581; Aug. 13.
Kennedy, John A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Spindle adjusting device. 2,405,889; Aug. 13.
Kern, Lawrence, Philadelphia, Pa. Square finish photoengraved halftone printing plate and making same. 2,405,749; Aug. 13.
Kesterton, Henry M., Wroxall, near Warwick, England. Controlling variable-speed power transmission mechanisms. 2,405,699; Aug. 13.
Kilgore Manufacturing Company, assignee: *See*—
Watkins, Henry B.
Kingman, Russell B., Orange, N. J. Mute for stringed musical instruments. 2,405,700; Aug. 13.
Kingsbury Machine Tool Corporation, assignee: *See*—
Adams, Charles R., and Clark.
Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Device for freezing foods. 2,405,834; Aug. 13.
Knopp, Otto A., Oakland, Calif. Power survey instrument. 2,405,656; Aug. 13.
Knopp, Otto A., Oakland, Calif. Power survey instrument. 2,405,657; Aug. 13.
Knox, Harry A., Washington, D. C. Clutch. 2,405,582; Aug. 13.
Koch, Eleanor J., assignee: *See*—
Cantrell, Frank J.
Krebser, Adolf, Riehen, near Basel, assignor to J. R. Geigy A. G., Basel, Switzerland. Acid disazo dyestuffs and their manufacture. 2,405,835; Aug. 13.
Kremer, Henry, London, England. Molding materials. 2,405,658; Aug. 13.
Kropf, Henry W., assignee: *See*—
Johnson, William.
Krueger, Theodore H., Stratford, Conn., assignor to Better Packages Incorporated. Strip serving machine. 2,405,790; Aug. 13.
Kunz, Walden H., Jackson, Mich., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Inductive tuner. 2,405,890; Aug. 13.
La Bour, Harry E., Elkhart, Ind. Self-priming pump. 2,405,836; Aug. 13.
Lambach, Fritz, Tenafly, assignor to Robert Reiner, Incorporated, Weehawken, N. J. Knitting machine. 2,405,583; Aug. 13.
Lamoureux, Hilaire J., New York, N. Y. Wig construction. 2,405,791; Aug. 13.
Lampe, Charles E., Sr., Philadelphia, Pa., assignor of four-tenths to C. Lovejoy and one-tenth to H. M. Kannee, Washington, D. C. Pipe bending machine. 2,405,750; Aug. 13.
Land, Harry A.: *See*—
Bechman, William O., Land, and Acton.
Landis & Gyr, A. G., assignee: *See*—
Ogurkowski, Georges.
Lang, Karl A., Glenview, assignor to Lindberg Engineering Company, Chicago, Ill. Current control apparatus. 2,405,837; Aug. 13.
Lange, Morris, University Heights, Ohio. Flagstaff support. 2,405,701; Aug. 13.
Langston, Samuel M., Co., assignee: *See*—
Behrens, Herbert C.
La Pointe Machine Tool Company, The, assignee: *See*—
Barrett, John H.
Larimore, Harvey T., assignor to Kalva Venders, Inc., Chicago, Ill. Vertical vending machine. 2,405,891; Aug. 13.
Larsen, Harry V., Seattle, Wash. Rowlock. 2,405,659; Aug. 13.
Latimer, Minor W.: *See*—
Smith, Roscoe B., and Latimer.
Laudan, Fred P.: *See*—
Minshall, Robert J., Laudan, and Emery.
Lawson, Archibald, East Orange, N. J., and C. M. Young, Newburgh, N. Y. Liquid separator apparatus. 2,405,838; Aug. 13.
Lazarus, George H., Jr., and J. F. Bewley, Bowling Green, Ky. Gun mounting. 2,405,792; Aug. 13.
Lederer, Karl M., Newark, and A. Dempster, Linden, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Instrument bearing. 2,405,892; Aug. 13.
Ledwinka, Joseph, Philadelphia, and G. Trautvetter, Jenkintown, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Heater duct. 2,405,839; Aug. 13.
Lee, Henry R., Pitman, J. Delnet, Glassboro, and H. B. Gottlieb, Glassboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing pyranthrone. 2,405,702; Aug. 13.
Leech, Abner Y., Jr., and H. H. Mohaupt, Washington, D. C., assignors to Societe Anonyme de Gestion et D'exploitation de Brevets. Fuse. 2,405,840; Aug. 13.
Leftwich, Robert F., Bronxville, N. Y. Cargo truck. 2,405,893; Aug. 13.
Leland-Gifford Company, assignee: *See*—
Bishop, Benjamin S. T., and Bicknell.
Lewis, Evan G.: *See*—
Barker, Lyle M., and Lewis.
Lewis, Harlow, Provincetown, Mass. System of building construction. 2,405,584; Aug. 13.
Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Compounds. 2,405,894; Aug. 13.
Lindberg Engineering Company, assignee: *See*—
Lang, Karl A.
Linde Air Products Company, The, assignee: *See*—
Scherl, Egon B.
Linn, Norman F., Mountainside, N. J., assignor to Standard Oil Development Company. Producing toluene. 2,405,660; Aug. 13.
Liquidometer Corporation, T assignee: *See*—
de Giers, Clarence A.
Locke, George A.: *See*—
Fitch, Karl E., and Locke.
Lockheed Aircraft Corporation, assignee: *See*—
Corte, Alfred.
Crot, André.
Height, Lewis H.
Price, Nathan C.
Lodwig, Erwin, Franklin Square, assignor to Mobile Refrigeration, Inc., New York, N. Y. Low-temperature chamber refrigeration. 2,405,895; Aug. 13.
Loeb, Henry D.: *See*—
Wyman, Joseph B., and Loeb.
Lohse, Alfred C., Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Making railway car bodies. 2,405,793; Aug. 13.
Loomis, Glenn L., McAllen, Tex. Portable derrick. 2,405,794; Aug. 13.
Lord Baltimore Press, The, assignee: *See*—
Feeney, Joseph C., and Banks.
Lorenz, Richard L., Chicago, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Program instrument. 2,405,841; Aug. 13.
Lovejoy, Charles, assignee: *See*—
Lampe, Charles E., Sr.
Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Rotary printing press. 2,405,795; Aug. 13.
Lyon, George A., Allenhurst, N. J. Wheel structure. 2,405,585; Aug. 13.
Lyon, George A., Allenhurst, N. J. Wheel structure. 2,405,586; Aug. 13.
Lyon, George A., Allenhurst, N. J. Wheel structure. 2,405,587; Aug. 13.
MacHenry, Richard: *See*—
Miller, Joseph F. G., and MacHenry.
Mackechnie, James G., Jr., Springfield, Mass. Treating and composition for cover cloth. 2,405,703; Aug. 13.
MacManus, John, Yonkers, assignor to Cushman's Sons Inc., New York, N. Y. Method and apparatus for forming perforated pie coverings. 2,405,661; Aug. 13.
Magrane, John K., Highland Park, A. R. Esterly, Metuchen, and R. E. Davies, Plainfield, N. J., assignor to Catalin Corporation of America. Making diallyl phthalate. 2,405,842; Aug. 13.
Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotary driving mechanism. 2,405,588; Aug. 13.
Mallory, P. R., & Co., Inc., assignee: *See*—
Kunz, Walden H.
Marsh, Henry R.: *See*—
Gwaltney, Eugene C., and Marsh.
Marsh, Walter H., Crafton, and E. Thoresen, assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Automatic predetermining device. 2,405,589; Aug. 13.
Marshall, William A., Jr., Oak Park, Ill., assignor to Crane Co., Chicago, Ill. Valve testing machine. 2,405,924; Aug. 13.
Martin, Samuel H.: *See*—
Denniston, Adolph L., and Martin.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Detonation shield. 2,405,590; Aug. 13.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Training device. 2,405,591; Aug. 13.
Mathis, Leon H., Lake City, Fla. Portable pulpwood saw. 2,405,896; Aug. 13.
Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Flowmeter. 2,405,704; Aug. 13.
Mauger, Arthur J., Gary, Ind., and A. H. Ward, Mount Lebanon, Pa. Galvanizing. 2,405,592; Aug. 13.

May, Harmon D., Jayton, Tex. Earth working and cultivating machine. 2,405,796; Aug. 13.
McAllister, Sumner H.: *See*—
Bullard, Edwin F., Anderson, and McAllister.
McBride, Charles B.: *See*—
Watson, John E., Whiton, and McBride.
Whiton, Louis C., Watson, and McBride.
McManus, Charles E., J. D. Elder, G. B. Cooke, and A. J. Dornblatt, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Coating. 2,405,662; Aug. 13.
McMenamin, Joseph, Clementon, N. J. Apparatus for brewing coffee. 2,405,751; Aug. 13.
McRae, Daniel B.: *See*—
Beggs, Joseph S., McRae, and Eagle.
Melvill, Francis L., New York, N. Y. Packing for vapor and liquid contacting apparatus. 2,405,593; Aug. 13.
Melvill, Francis L., New York, N. Y. Contacting apparatus. 2,405,594; Aug. 13.
Merrifield, Arthur L.: *See*—
Irving, George W., Merrifield, Burnett, and Parker.
Metal Textile Corporation, assignee: *See*—
York, Otto H.
Miller, Joseph F. G., South Arlington, Va., and R. MacHenry, Washington, D. C. Installing magnetic detecting devices and supports therefor. 2,405,595; Aug. 13.
Miller, Lauritz N., Eugene, Oreg. Differential convertible gasoline-Diesel engine. 2,405,596; Aug. 13.
Miller, Ohmer R., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency measuring system. 2,405,597; Aug. 13.
Miller, Ralph: *See*—
Hixson, Arthur W., and Miller.
Miller, Theodore, assignor to George Gorton Machine Co., Racine, Wis. Mechanism for guiding multiple tools. 2,405,663; Aug. 13.
Miller, William J., assignor to Elliott Bay Mill Co., Seattle, Wash. Resiliently supported shear block. 2,405,598; Aug. 13.
Milone, Samuel, and C. W. Rothfeld, Philadelphia, Pa. Rivet. 2,405,897; Aug. 13.
Milone, Samuel, and C. W. Rothfeld, Philadelphia, Pa. Setting rivets. 2,405,898; Aug. 13.
Mine Safety Appliances Company, assignee: *See*—
Feigley, David A., Jr.
Jackson, Carey B.
Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Minshall, Robert J., F. P. Laudan, and E. G. Emery, Jr., Seattle, Wash., assignors, by mesne assignments, to the United States of America, as represented by the Secretary of War. Bomb release. 2,405,752; Aug. 13.
Mitchell, Doren, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Privacy system. 2,405,599; Aug. 13.
Mobile Refrigeration, Inc., assignee: *See*—
Lodwig, Erwin.
Mobley, William R., Miami, Fla. Process and apparatus for reclaiming grease. 2,405,705; Aug. 13.
Moe, William W., Stratford, Conn., assignor to General Electric Company. Signal responsive control system. 2,405,843; Aug. 13.
Mohaupt, Henry H.: *See*—
Leech, Abner Y., Jr., and Mohaupt.
Morgan, Earl E., Lafayette, Ind. Bottle carrier. 2,405,753; Aug. 13.
Morris, Thomas L., Van Nuys, Calif. Fluid transmission. 2,405,600; Aug. 13.
Morrison, Alexander L.: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.
Mortenson, Gunnar C., Chicago, Ill. Expansion and contraction joint. 2,405,844; Aug. 13.
Motor Tool Manufacturing Company, assignee: *See*—
Ross, Walter F.
Mullendore, Ralph E., U. S. Navy. Azimuth scale. 2,405,601; Aug. 13.
Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic accumulator. 2,405,664; Aug. 13.
Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Multicolor printing. 2,405,754; Aug. 13.
Musebeck, George E., and F. P. Bennett, assignors to Musebeck Shoe Company, Danville, Ill. Picture projector. 2,405,706; Aug. 13.
Musebeck Shoe Company, assignee: *See*—
Musebeck, George E., and Bennett.
National Automatic Tool Company, Inc., assignee: *See*—
Schafer, Robert A.
National Cash Register Company, The, assignee: *See*—
Mumma, Robert E.
National Foam System, Inc., assignee: *See*—
Hogenmiller, Francis J., Boyd, and Boerner.
National Supply Company, The, assignee: *See*—
Archer, Merton T.
Navy, United States of America, as represented by the Secretary of, assignee: *See*—
Brannin, James W.
Silent, Harold C.
Nazzaro, Rocco, Glen Rock, N. J. Apparatus for treating fabrics with liquid. 2,405,665; Aug. 13.
Neild, William G., Warren Point, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J. Carbon pile voltage regulator. 2,405,514; Aug. 13.
Neuhaus, William, Nellsville, Wis. Door knocker. 2,405,916; Aug. 13.
New Britain Machine Company, The, assignee: *See*—
Rockwell, Edward A.
New York Air Brake Company, assignee: *See*—
Baldwin, Wayne A.
Niederhauser, Robert J.: *See*—
Spiller, William R., and Niederhauser.
Nielsen, Emanuel, and A. W. Seyfried, Racine, Wis., assignors to Scovill Manufacturing Company, Waterbury, Conn. Motor driven food mixer. 2,405,707; Aug. 13.
Norwood, Stanley M., Great Neck, N. Y., assignor to Electro Metallurgical Company. Welding. 2,405,666; Aug. 13.
Nugent, Frederick V., Abington, assignor to B. B. Chemical Co., Boston, Mass. Adhesive activation. 2,405,602; Aug. 13.
Ogurkowski, Georges, Zug, Schonbuhl, Switzerland, assignor to Landis & Gyr, A. G. Constant speed motor system. 2,405,708; Aug. 13.
Olsson, Olov J. E., assignor to Storm Manufacturing Company, Inc., Minneapolis, Minn. Stop mechanism. 2,405,709; Aug. 13.
Onyx Oil & Chemical Company: *See*—
Geltner, Daniel.
Ottesen, Andrew, New York, N. Y. Receptacle cover. 2,405,667; Aug. 13.
Otti, Joseph, Oklahoma City, Okla. Louver operating means. 2,405,899; Aug. 13.
Panes, Isidore, New York, N. Y. Stay for corsets. 2,405,900; Aug. 13.
Parker, Edwin D.: *See*—
Irving, George W., Merrifield, Burnett, and Parker.
Parker, Ralzemond D., Brooklyn, W. T. Rea, Manhasset, and F. J. Singer, Rockville Centre, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Data transmission system. 2,405,603; Aug. 13.
Patterson, Donald J., Los Angeles, Calif., assignor to Simplex Time Recorder Co., Gardner, Mass. Hammer control mechanism. 2,405,901; Aug. 13.
Paxton, John W., Bloomington, and I. R. Cornish, Elmhurst, Ill. Filing Cabinet. 2,405,668; Aug. 13.
Peterson, Harold F.: *See*—
Whittaker, Lloyd A., and Peterson.
Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin, and Keiser.
Pfaff, Ernest R., assignor, by mesne assignments, to Admiral Corporation, Chicago, Ill. Combined limiter and squelch circuit. 2,405,845; Aug. 13.
Phelps Dodge Corporation, assignee: *See*—
Barker, Lyle M., and Lewis.
Philco Corporation, assignee: *See*—
Vansant, John S.
Phillips, John W., El Campo, Tex. Combined teller and customer booth. 2,405,710; Aug 13.
Phillips Petroleum Company, assignee: *See*—
Matuszak, Maryan P.
Pike, Charles O.: *See*—
Priepke, Rudolf J., Emigh, and Pike.
Pittsburgh Equitable Meter Company, assignee: *See*—
Marsh, Walter H., and Thoresen.
Platt, Herbert, and C. M. Croft, Cumberland, Md., assignors to Celanese Corporation of America. Coloration of textile materials. 2,405,669; Aug. 13.
Plut, Alvin A., Ponca City, Okla. Soapstone holder. 2,405,797; Aug. 13.
Poethig, Robert E., assignor to The Bastian Blessing Co., Chicago, Ill. Gas dispensing apparatus. 2,405,846; Aug. 13.
Pope, Thomas J., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compressional wave translating device. 2,405,604; Aug. 13.
Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,405,925; Aug. 13.
Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Slide fastener stringer tape. 2,405,902; Aug. 13.
Power Jets (Research and Development) Limited, assignee: *See*—
Whittle, Frank.
Prat-Daniel Corporation, assignee: *See*—
Watson, John E., Whiton, and McBride.
Premas, Peter S., Chicago, Ill. Doughnut forming machine. 2,405,903; Aug. 13.
Price, Nathan C., Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Pressurizing equipment for aircraft. 2,405,670; Aug. 13.
Priepke, Rudolf J., North Brunswick Township, Middlesex County, J. H. Emigh, Milltown, and C. O. Pike, Highland Park, N. J., assignors to Industrial Tape Corporation. Pressure sensitive adhesive. 2,405,926; Aug. 13.
Productive Inventions, Inc., assignee: *See*—
Smulski, Theodore J.
Prosperity Company, Inc., The, assignee: *See*—
Gayring, Wallace F.

Pullin, Cyril G., Wimbledon, assignor to the Cierva Autogiro Company Limited, London, England. Cooling jacket for internal-combustion engine. 2,405,847; Aug. 13.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Lohse, Alfred C.

Pure Oil Company, The, assignee: *See*—
Ayers, George W., and Barton.
Schindler, Hans.
Schindler, Hans, and Henderson.

Quayle, George, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lift truck. 2,405,848; Aug. 13.

Quilter, John R. C., and J. Gregory, Woking, England. Parachute harness. 2,405,671; Aug. 13.

Radio Corporation of America, assignee: *See*—
Crosby, Murray G.
Smith, J. Ernest.

Rataiczak, Francis I., assignor to General Motors Corporation, Dayton, Ohio. Making motor compressor units. 2,405,904; Aug. 13.

Rawlins, Herbert L., Wilkinsburg, and J. M. Wallace, Braddock, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,405,606; Aug. 13.

Rea, Wilton T.: *See*—
Parker, Ralzemand D., Rea, and Singer.

Reece Corporation, The, assignee: *See*—
Avis, Samuel W.

Reiner, Robert, Incorporated: *See*—
Lambach, Fritz.

Reitmeier, Ronald E., assignor to The Girdler Corporation, Louisville, Ky. Removal of hydrogen sulphide from gas streams. 2,405,672; Aug. 13.

Research Corporation, assignee: *See*—
Sloan, David H.

Revere Camera Company, assignee: *See*—
Briskin, Theodore S.

Riker, Malcolm D., Detroit, Mich. Overflow device for liquid containers. 2,405,849; Aug. 13.

Rinderknecht, Heinrich: *See*—
Bergel, Franz, Hindley, Morrison, and Rinderknecht.

Roberts, Ottie, East St. Louis, Ill. Artificial larynx construction. 2,405,850; Aug. 13.

Roberts, Ottie, East St. Louis, Ill. Trachea connection. 2,405,851; Aug. 13.

Rockwell, Edward A., Forest Hills, N. Y., assignor to The New Britain Machine Company, New Britain, Conn. Power unit. 2,405,852; Aug. 13.

Rodefeld, William H., Richmond, Ind. Hay gatherer. 2,405,755; Aug. 13.

Rodefeld, William H., Richmond, Ind. Hay harvester. 2,405,756; Aug. 13.

Roehrenbeck, Raymond R.: *See*—
Hartwig, Carl E., and Roehrenbeck.

Rogers, Dilworth T., Plainfield, N. J., assignor to Standard Oil Development Company. Compounded lubricant. 2,405,607; Aug. 13.

Rogers, Dilworth T., Plainfield, N. J., assignor to Standard Oil Development Company. Compounded lubricant. 2,405,608; Aug. 13.

Romanow, Frank F.: *See*—
Goodale, Walter D., Jr., and Romanow.

Rosch, Samuel J., Yonkers, N. Y., assignor to Anaconda Wire and Cable Company. Oil-filled electrical apparatus. 2,405,853; Aug. 13.

Rosner, Irving, assignor to Even-Pul Foundations, Inc., New York, N. Y. Corset. 2,405,711; Aug. 13.

Ross, Walter F., assignor to Motor Tool Manufacturing Company, Detroit, Mich. Form tool chip breaker generating fixture. 2,405,609; Aug. 13.

Rossi, Carlo: *See*—
Albrecht, Otto, Graenacher, Sallmann, and Rossi.

Rothfeld, Charles W.: *See*—
Milone, Samuel, and Rothfeld.

Rowland, Arthur M., Graham, Tex. Pipe wrench. 2,405,757; Aug. 13.

Ruemelin, Richard, Milwaukee, Wis. Gun for blasting and spraying. 2,405,854; Aug. 13.

Russell, William F., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Production of alcoholates. 2,405,712; Aug. 13.

Russell, William F., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Production of alcoholates. 2,405,713; Aug. 13.

Rust, David J., assignor to Ry-Lock Company, Ltd., San Leandro, Calif. Frameless window screen. 2,405,855; Aug. 13.

Ryan, George F., Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and apparatus for perforating sheet material. 2,405,714; Aug. 13.

Ry-Lock Company, Ltd., assignee: *See*—
Rust, David J.

Sabini, Frederick, Salem, N. J. Toy submarine. 2,405,715; Aug. 13.

Saco-Lowell Shops, assignee: *See*—
Gwaltney, Eugene C., and Marsh.
Kennedy, John A.
Silox, Arthur E.

Sallmann, Richard: *See*—
Albrecht, Otto, Graenacher, Sallmann, and Rossi.

Sampson, Frederick W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Carbine. 2,405,758; Aug. 13.

Sampson, William, Aldwych, London, England, assignor, by mesne assignments, to Foster Wheeler Corporation, New York, N. Y. Furnace floor structure. 2,405,610; Aug. 13.

Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron beam amplifier. 2,405,611; Aug. 13.

Saxton, Harold L.: *See*—
Hayes, Harvey C., and Saxton.

Schaaf, Oliver H., Shaker Heights, assignor to Air-Maze Corporation, Cleveland, Ohio. Filter panel. 2,405,716; Aug. 13.

Schadel, Charles H., Houston, assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Orienting apparatus. 2,405,717; Aug. 13.

Schaerer, Otto, Basel, Switzerland. Automatic milling machine for cutting teeth in rack blanks and transversely grooving the work. 2,405,856; Aug. 13.

Schafer, Robert A., assignor to National Automatic Tool Company, Inc., Richmond, Ind. Machine tool. 2,405,718; Aug. 13.

Scheffler, Raymond J., assignee: *See*—
Sprague, Earl E.

Schelkunoff, Sergei A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra-high frequency resonant cavities. 2,405,612; Aug. 13.

Scherl, Egon B., New York, N. Y., assignor to The Linde Air Products Company. Electric welding. 2,405,673; Aug. 13.

Schindler, Hans, Evanston, assignor to The Pure Oil Company, Chicago, Ill. Removal of sulphur compounds from hydrocarbon polymers. 2,405,905; Aug. 13.

Schindler, Hans, Evanston, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Turbine oil. 2,405,906; Aug. 13.

Schliwa, Adolph M., Milwaukee, and F. E. Anderson, Wauwatosa, Wis. Golf bag carrier. 2,405,674; Aug. 13.

Schmitt, Herman, Sheboygan, Wis. Elevating and steering mechanism for aircraft. 2,405,907; Aug. 13.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Combined air hydraulic pressure actuating system. 2,405,759; Aug. 13.

Schonitzer, Rudolph I., Shaker Heights, Ohio. Combined door-hinging, door-checking, and door-holding device. 2,405,719; Aug. 13.

Scovill Manufacturing Company, assignee: *See*—
Nielsen, Emanuel, and Seyfried.

Scrymser, Borne, Company, assignee: *See*—
Siever, Hughes L.

Sedgwick Machine Works, Inc., assignee: *See*—
Ellis, Charles E.

Seitz, John G., assignor to Samuel I. Keene, San Francisco, Calif. Firing mechanism. 2,405,798; Aug. 13.

Seyfried, Arthur W.: *See*—
Nielsen, Emanuel, and Seyfried.

Shaff, Ernest H., Spring Lake, Mich., assignor to Cherry Rivet Company, Los Angeles, Calif. Apparatus for setting blind rivets. 2,405,613; Aug. 13.

Shaks, William P., Woodside, N. Y. Fish scaling clamp. 2,405,760; Aug. 13.

Shell Development Company, assignee: *See*—
Bullard, Edwin F., Anderson, and McAllister.
Wyman, Joseph B., and Loeb.

Shriro, Morris A., Elberon, N. J., assignor to the United States of America, as represented by the Secretary of War. Moistureproofing device. 2,405,614; Aug. 13.

Siever, Hughes L., Keyser, W. Va., assignor to Borne Scrymser Company. Apparatus for applying treating liquids to fibers. 2,405,857; Aug. 13.

Sigmund Corporation, assignee: *See*—
Sigmund, Frank J., and Hlavin.

Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Support for windings in magnetizing cores. 2,405,615; Aug. 13.

Silcox, Arthur E., Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Beam driving mechanism for slashers. 2,405,908; Aug. 13.

Silent, Harold C., Los Angeles, Calif., assignor to the Government of the United States of America, as represented by the Secretary of the Navy. Acoustic coupler for condenser microphones. 2,405,858; Aug. 13.

Silver, Walter, Belmar, N. J. Antenna coupling. 2,405,616; Aug. 13.

Simmie, Walter S., Headington, Oxford, England. Electromagnetic vibrator. 2,405,761; Aug. 13.

Simplex Time Recorder Co., assignee: *See*—
Patterson, Donald J.

Singer, Fred J.: *See*—
Parker, Ralzemond D., Rea, and Singer.

Singer, Fred J., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Data transmission system. 2,405,617; Aug. 13.

Singer Manufacturing Company, The, assignee: *See*—
Happe, Reynold.

Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Structure for supporting filaments in vacuum tubes. 2,405,762; Aug. 13.

Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. Vacuum tube utilizing cavity resonators. 2,405,763; Aug. 13.

Smeallie, Robert D., Teaneck, N. J., assignor to The E. J. Willis Company, New York, N. Y. Bearing. 2,405,799; Aug. 13.

Smith, Edgar C., Chicago, Ill. Sectional thermos food container. 2,405,764; Aug. 13.

Smith, Edward M., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permutation code data transmission system. 2,405,618; Aug. 13.

Smith, J. Ernest, Brooklyn, N. Y., assignor to Radio Corporation of America. Radio repeater. 2,405,765; Aug. 13.

Smith, Roscoe B., Wilmington, Del., and M. W. Latimer, Joplin, Mo., assignors to Hercules Powder Company, Wilmington, Del. Producing threaded spiral tubes. 2,405,909; Aug. 13.

Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper. 2,405,910; Aug. 13.

Snedaker, Albert L., Haddon Heights, N. J. Slide rule. 2,405,720; Aug. 13.

Societe Anonyme de Gestion et d'Exploitation de Brevets, assignee: *See*—
Leech, Abner Y., Jr., and Mohaupt.

Society of Chemical Industry in Basle, assignee: *See*—
Albrecht, Otto, Graenacher, Sallmann, and Rossi.

Somes, Howard E., Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Tubular structural member. 2,405,859; Aug. 13.

Southwick, Charles A., Jr., South Norwalk, Conn., and A. F. Stagmeier, Upper Montclair, N. J., assignors to General Foods Corporation, New York, N. Y. Forming seals. 2,405,675; Aug. 13.

Sperry Gyroscope Company, Inc., assignee: *See*—
Ferrill, Thomas M., Jr.

Spiller, William R., and R. J. Niederhauser, Dayton, Ohio, assignors, by mesne assignments, to Acme Steel Company, Chicago, Ill. Stitching machine. 2,405,800; Aug. 13.

Spohn, Walter R., Pittsburgh, Pa. Theatrical apparatus. 2,405,766; Aug. 13.

Sprague, Earl E., assignor to Raymond J. Scheffler, Grand Rapids, Mich. Electric thermal switch. 2,405,767; Aug. 13.

Stagmeier, Arthur F.: *See*—
Southwick, Charles A., Jr., and Stagmeier.

Stalker, Edward A., Bay City, Mich. Axial blower. 2,405,768; Aug. 13.

Standard Oil Development Company, assignee: *See*—
Linn, Norman F.
Rogers, Dilworth T.

Stoner, Frank, Lakewood, assignor to The Baker-Raulang Company, Cleveland, Ohio. Controller. 2,405,769; Aug. 13.

Storm Manufacturing Company, Inc., assignee: *See*—
Olsson, Olov J. E.

Strang, S. Bartow, administrator: *See*—
Holmes, Ernest W.

Stromberg-Carlson Company, assignee: *See*—
Goldberg, Harold, and Thompson.

Strub, René, La Chaux-de-Fonds, Switzerland. Marine power plant. 2,405,676; Aug. 13.

Sturtevant, B. F., Company, assignee: *See*—
Blanchard, Charles E.

Submarine Signal Company, assignee: *See*—
Barbour, Charles W., Jr.

Sutton, John C., assignor to The Brearley Company, Rockford, Ill. Bathroom scale weight adjustment. 2,405,619; Aug. 13.

Swan-Finch Oil Corporation, assignee: *See*—
Hartwig, Carl E., and Roehrenbeck.

Swanson, Gunnar E., New Britain, Conn. Cylinder lock. 2,405,911; Aug. 13.

Swarr, Jay N., Woodbury, Conn., assignor to The Bristol Company, Waterbury, Conn. Telemetric apparatus. 2,405,801; Aug. 13.

Taber, Frederic H., New Bedford, Mass. Tire retreading. 2,405,802; Aug. 13.

Talon, Inc., assignee: *See*—
Carlile, Alfred E.
Gould, Clarence D.
Pouz, Noel J.

Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,405,620; Aug. 13.

Taylor, Willie W., Rocky Gap, Va. Dump truck and latch. 2,405,721; Aug. 13.

Telefonaktiebolaget L. M. Ericson, assignee: *See*—
Wåhlstrom, Gustaf A.

Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine for safety razor blades. 2,405,621; Aug. 13.

Thomas, William, San Francisco, Calif. Placer mining machine. 2,405,622; Aug. 13.

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,405,860; Aug. 13.

Thompson, Walter C.: *See*—
Goldberg, Harold, and Thompson.

Thomson-National Press Co., Inc., assignee: *See*—
Whittaker, Lloyd A., and Peterson.

Thoresen, Einar: *See*—
Marsh, Walter H., and Thoresen.

Thurston, Arthur L., Wantagh, N. Y., assignor to Cox and Stevens Aircraft Corporation. Calculator. 2,405,803; Aug. 13.

Timken Roller Bearing Company, The, assignee: *See*—
Haager, Paul L.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Detonator clamp. 2,405,912; Aug. 13.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,405,913; Aug. 13.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Tod, Charles W., Kingswinford, Brierley Hill, assignor to Albright & Wilson Limited, Oldbury, near Birmingham, England. Production of alginate solutions. 2,405,861; Aug. 13.

Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.

Toomey, John, Holbrook, Mass. Dispensing truck. 2,405,862; Aug. 13.

Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Drain fitting. 2,405,927; Aug. 13.

Trautvetter, George: *See*—
Ledwinka, Joseph, and Trautvetter.

Treboux, Jules, Riehen, near Basel, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Dicyanodiamide-ammonia condensation products and making same. 2,405,863; Aug. 13.

Union Oil Company of California, assignee: *See*—
Bradley, William E.

Union Switch & Signal Company, The, assignee: *See*—
Thompson, Howard A.

United Aircraft Corporation, assignee: *See*—
Bulvid, Michel D.

United Shoe Machinery Corporation, assignee: *See*—
Bagshaw, Charles M.
Ryan, George F.

U. S. Asbestos Cement Pipe Company, assignee: *See*—
Ferla, John.

Vanderbilt, R. T., Company, Incorporated, assignee: *See*—
Russell, William F.

Van Rosen, Robert, New York, N. Y. Fastening means. 2,405,914; Aug. 13.

Vansant, John S., Huntington Valley, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electron tube and making the same. 2,405,915; Aug. 13.

Villier, Charles J., Louisville, Ky. Heat exchange structure. 2,405,722; Aug. 13.

Vizay, L. W., Corporation, assignee: *See*—
Vizay, Lloyd W.

Vizay, Lloyd W., assignor to L. W. Vizay Corporation, Milwaukee, Wis. Fluid carrying, transferring, and shut-off devices. 2,405,864; Aug. 13.

Vogt, Richard R.: *See*—
Hamill, William H., and Vogt.

Volpe, Michael, assignor of one-half to G. I. Feilback, Pittsburgh, Pa. Pool ball rack or frame. 2,405,677; Aug. 13.

Wagner Electric Corporation, assignee: *See*—
Boldt, Werner F.
Schnell, Steve.

Wahlberg, Eric C., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Remote control system. 2,405,678; Aug. 13.

Wåhlström, Gustaf A., Akeshov, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Push button switch. 2,405,679; Aug. 13.

Wald, Gerson B., Far Rockaway, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J. Electrical apparatus. 2,405,929; Aug. 13.

Walker, Richard A., St. Joseph, Mo. Pivotal mounting for damper plates. 2,405,770; Aug. 13.

Wallace, James M.: *See*—
Rawlins, Herbert L., and Wallace.

War, United States of America, as represented by the Secretary of, assignee: *See*—
Minshall, Robert J., Laudan, and Emery.
Shriro, Morris A.

Ward, Alfred H.: *See*—
Mauger, Arthur J., and Ward.

Warner & Swasey Company, The, assignee: *See*—
Clark, Robert H.

Waseige, Charles R., Saint Etienne, France; vested in the Alien Property Custodian. Driving joint for control devices for retractable members on board aircraft. 2,405,623; Aug. 13.

Watkins, Henry B., Worthington, assignor to The Kilgore Manufacturing Company, Tipp City, Ohio. Match package. 2,405,865; Aug. 13.

Watson, Charles E.: *See*—
Berg, Bennie L., and Watson.

Watson, John E.: *See*—
Whiton, Louis C., Watson, and McBride.

Watson, John E., and L. C. Whiton, Westport, Conn., and C. B. McBride, assignors to Prat-Daniel Corporation, Port Chester, N. Y. Apparatus for cleaning air. 2,405,624; Aug. 13.

Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Strut element and joint. 2,405,917; Aug. 13.

Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Airplane construction. 2,405,918; Aug. 13.
Way, Stewart, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Propulsion apparatus. 2,405,723; Aug. 13.
Weber, Emmerich: *See*—
Antos, George, and Weber.
Weller, Carl E., Easton, Pa. Electrical heating apparatus. 2,405,866; Aug. 13.
Westinghouse Electric Corporation, assignee: *See*—
Rawlins, Herbert L., and Wallace.
Way, Stewart.
Weston Electrical Instrument Corporation, assignee: *See*—
Lederer, Karl M., and Dempster.
Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Wrapper preparing mechanism for cigar machines. 2,405,867; Aug. 13.
White, Eric L. C.: *See*—
Blumlein, Alan D., and White.
Whiton, Louis C.: *See*—
Watson, John E., Whiton, and McBride.
Whiton, Louis C., and J. E. Watson, Westport, Conn., and C. B. McBride, Port Chester, N. Y. Dust separator. 2,405,625; Aug. 13.
Whittaker, Lloyd A., and H. F. Peterson, assignors to Thomson-National Press Co., Inc., Franklin, Mass. Cutting and creasing press. 2,405,868; Aug. 13.
Whittle, Frank, Rugby, assignor to Power Jets (Research and Development) Limited, London, England. Fluid flow energy, transformer. 2,405,919; Aug. 13.
Wild, Alfred, Milwaukee, Wis. Thermostatic switch. 2,405,869; Aug. 13.
Wilder, Frank N., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dispersions of neoprene in aqueous media. 2,405,724; Aug. 13.
Williams, John J., Bridgeport, Conn. Battery terminal post cleaning device. 2,405,680; Aug. 13.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Counting mechanism. 2,405,626; Aug. 13.
Williams, Louise H., assignor of one-half to P. Bozeman, West Los Angeles, Calif. Collapsible receptacle. 2,405,627; Aug. 13.
Willis, E. J., Company, The, assignee: *See*—
Smeallie, Robert D.
Wingfoot Corporation, assignee: *See*—
Hardman, Albert F.
Lichty, Joy G.
Winston, Love, Chicago, Ill. Conveying apparatus. 2,405,920; Aug. 13.
Wipper, George and V. F., Jacksonville, Fla. Neckerchief display knot and making. 2,405,921; Aug. 13.
Wipper, Vivian F.: *See*—
Wipper, George and V. F.
Wolf, Cecil R.: *See*—
Ferris, William D., and Wolf.
Woock, Walter R. J., Auburn, Calif. Drum valve and faucet. 2,405,681; Aug. 13.
Wyman, Joseph B., Roxana, Ill., and H. D. Loeb, assignors to Shell Development Company, San Francisco, Calif. Fluid catalyst catalytic cracking. 2,405,922; Aug. 13.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Quayle, George.
Yardeny, Michel N., New York, N. Y. Control device. 2,405,628; Aug. 13.
Yardeny, Michel N., New York, N. Y. Remote control apparatus with unidirectional stopping. 2,405,629; Aug. 13.
York, Otto H., Maplewood, assignor to Metal Textile Corporation, West Orange, N. J. Apparatus for producing annular compresed wire mesh units. 2,405,725; Aug. 13.
Young, Charles M.: *See*—
Lawson, Archibald, and Young.
Zap, Edward F., Los Angeles, Calif. Airplane wing construction. 2,405,726; Aug. 13.
Ziegler, Marc, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Synchronizing a plurality of oscillations. 2,405,771; Aug. 13.
Zint, George, Wapakoneta, Ohio. Moistening device for gummed cigarette papers. 2,405,804; Aug. 13.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Amplifier, Torque. W. E. Swift, Jr. Re. 22,779; Aug. 13.
Apparatus for sterilizing soil. B. B. Elliott. Re. 22,778; Aug. 13.
Controlling apparatus, Railway traffic. J. J. Van Horn. Re. 22,780; Aug. 13.
Piano action. W. G. Betz. Re. 22,777; Aug. 13.

LIST OF DESIGN INVENTIONS

Box, Sand. P. A. Cosme. 145,391; Aug. 13.
Cabinet, Shower. T. F. Anderson. 145,374; Aug. 13.
Camera casing, Medico-surgical. F. K. Storm. 145,412; Aug. 13.
Clothespin or the like. H. M. Broadwell. 145,377; Aug. 13.
Cotton harvesting machine. W. N. Smith. 145,411; Aug. 13.
Game pieces, Set of picture. G. Mysels. 145,408; Aug. 13.
Heel, Rubber. E. Bunting. 145,378; Aug. 13.
Hourglass unit. P. Artzt. 145,375; Aug. 13.
Light meter, Hooded. R. B. Thomas. 145,413; Aug. 13.
Lubricator, Mechanical. B. E. Folke and R. H. Shepard. 145,393; Aug. 13.
Mirror, Hand. L. Farber. 145,392; Aug. 13.
Net, Fishing. M. J. Meek and B. C. Hagquist. 145,405; Aug. 13.
Pin and perfume container, Combined lapel. H. Graeter. 145,394; Aug. 13.
Slicing machine. P. H. Meyer. 145,406; Aug. 13.
Sweater. A. Naidish. 145,409; Aug. 13.
Tablecloth or similar article. M. C. McGee. 145,404; Aug. 13.
Toaster and hot plate, Combined. T. D. Nierenberg and G. Daelemans. 145,410; Aug. 13.
Towel or similar article. L. Carpadus. 145,379–89; Aug. 13.
Towel or similar article. A. Lange. 145,396–403; Aug. 13.
Toy airplane. J. J. Miller. 145,407; Aug. 13.
Toy figure, or similar article, Infant's. R. B. Grosvenor. 145,395; Aug. 13.
Toy or similar article, Clock. C. C. Cohen. 145,390; Aug. 13.
Uniform. A. M. Berger. 145,376; Aug. 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator, Electronic. R. E. Mumma. 2,405,664; Aug. 13.
Acetylene solutions. W. H. Hamill and R. R. Vogt. 2,405,693; Aug. 13.
Acid disazo dyestuffs and their manufacture. A. Krebser. 2,405,835; Aug. 13.
Acids, Manufacture of amino. J. A. Gamma. 2,405,574; Aug. 13.
Adhesive activation. F. V. Nugent. 2,405,602; Aug. 13.
Adhesive, Pressure sensitive. R. J. Priepke, J. H. Emigh, and C. O. Pike. 2,405,926; Aug. 13.
Adjuster for wringers, Roll pressure. F. A. Conterman. 2,405,641; Aug. 13.
Adjusting device, Spindle. J. A. Kennedy. 2,405,889; Aug. 13.
Agglutinogen derived from whooping cough organisms. E. W. Flosdorf. 2,405,740; Aug. 13.
Air brake. W. A. Baldwin. 2,405,632; Aug. 13.
Air conditioning. T. W. Binder. 2,405,812; Aug. 13.
Airplane construction. M. Watter. 2,405,918; Aug. 13.
Airplanes and the like, Assembling. A. F. Anjeskey. 2,405,544; Aug. 13.
Alcoholates, Production of. W. F. Russell. 2,405,712–13; Aug. 13.
Alginate solutions, Production of. C. W. Tod. 2,405,861; Aug. 13.
Alkali metal oxides, Producing. C. B. Jackson. 2,405,580; Aug. 13.
Alphahydroxy carboxylic acids, Preparation of. J. Blumenfeld. 2,405,873; Aug. 13.
Amplifier, Electron beam. A. L. Samuel. 2,405,611; Aug. 13.
Anode for the electrolytic protection of closed containers. B. G. Brolinson. 2,405,776; Aug. 13.
Antenna coupling. W. Silver. 2,405,616; Aug. 13.
Apparatus for applying treating liquid to fibers. H. L. Siever. 2,405,857; Aug. 13.
Apparatus for arc welding. W. C. Huguley. 2,405,828; Aug. 13.
Apparatus for brewing coffee. J. McMenamin. 2,405,751; Aug. 13.
Apparatus for cleaning air. J. E. Watson, L. C. Whiton, and C. B. McBride. 2,405,624; Aug. 13.
Apparatus for controlling the slide movement in long-bed hydraulic presses. E. Cannon. 2,405,640; Aug. 13.
Apparatus for manufacturing hollow glass articles. E. R. Bonnefoy-Cudraz. 2,405,557; Aug. 13.
Apparatus for printing. G. C. Ellerbeck. 2,405,562; Aug. 13.
Apparatus for processing photographic films. R. J. Duguid. 2,405,645; Aug. 13.
Apparatus for producing annular compressed wire mesh units. O. H. York. 2,405,725; Aug. 13.
Apparatus for setting blind rivets. E. H. Shaff. 2,405,613; Aug. 13.
Apparatus for solar distillation. W. R. P. Delano. 2,405,877; Aug. 13.
Apparatus for treating fabrics with liquid. R. Nazzaro. 2,405,665; Aug. 13.
Arrangement for locator system, Synchronizing. H. Goldberg and W. C. Thompson. 2,405,930; Aug. 13.
Automatic clutch. G. Antos and E. Weber. 2,405,545; Aug. 13.
Bag for cycles, Double luggage. S. Glass. 2,405,744; Aug. 13.
Bearing: *See*—
  Instrument bearing.
Bearing. R. D. Smeallie. 2,405,799; Aug. 13.
Belt, Garment. L. W. Foster. 2,405,647; Aug. 13.
Bending machine, Pipe. C. E. Lampe, Sr. 2,405,750; Aug. 13.
Block: *See*—
  Resiliently supported shear block.
Blower, Axial. E. A. Stalker. 2,405,768; Aug. 13.
Blower having swinging feed hopper, Ensilage. R. B. Hitchcock and S. E. Hiblom. 2,405,695; Aug. 13.
Bomb release. R. J. Minshall, F. P. Laudan, and E. G. Emery, Jr. 2,405,752; Aug. 13.
Booth, Combined teller and customer. J. W. Phillips. 2,405,710; Aug. 13.
Bottle carrier. E. E. Morgan. 2,405,753; Aug. 13.
Box: *See*—
  Folding box.
Brake: *See*—
  Air brake.
Breaker, Vacuum. E. W. N. Boosey. 2,405,639; Aug. 13.
Building construction, System of. H. Lewis. 2,405,584; Aug. 13.

Cabinet: *See*—
  Filing cabinet.
Calculating device. W. F. Cleaver. 2,405,687; Aug. 13.
Calculator. A. L. Thurston. 2,405,803; Aug. 13.
Can feed, Oval. J. Albertoli. 2,405,805; Aug. 13.
Car bodies, Making railway. A. C. Lohse. 2,405,793; Aug. 13.
Car construction, Dump. F. Hoelzgen. 2,405,696; Aug. 13.
Carbine. F. W. Sampson. 2,405,758; Aug. 13.
Carburetor. D. J. Enright. 2,405,563; Aug. 13.
Carrier: *See*—
  Bottle carrier. Grain carrier.
  Golf bag carrier.
Carrying, transferring, and shut-off devices, Fluid. L. W. Vizay. 2,405,864; Aug. 13.
Catalyst catalytic cracking, Fluid. J. B. Wyman and H. D. Loeb. 2,405,922; Aug. 13.
Chuck assembly. C. R. Adams and C. B. Clark. 2,405,772; Aug. 13.
Chute, Sorting. S. C. Hurley, Jr. 2,405,829; Aug. 13.
Circuit: *See*—
  Combined limiter and squelch circuit.
Circuit interrupter. H. L. Rawlins and J. M. Wallace. 2,405,606; Aug. 13.
Clamp: *See*—
  Detonator clamp. Fish scaling clamp.
Cleaning device, Battery terminal post. J. J. Williams. 2,405,680; Aug. 13.
Clutch: *See*—
  Automatic clutch. Dog clutch.
Clutch. H. A. Knox. 2,405,582; Aug. 13.
Coal mine haulage vehicle. W. R. Beck. 2,405,636; Aug. 13.
Coating. C. E. McManus, J. D. Elder, G. B. Cooke, and A. J. Dornblatt. 2,405,662; Aug. 13.
Collapsible receptacle. L. H. Williams. 2,405,627; Aug. 13.
Collar, Shirt. H. Henschel. 2,405,788; Aug. 13.
Coloration of textile materials. H. Platt and C. M. Croft. 2,405,669; Aug. 13.
Combined limiter and squelch circuit. E. R. Pfaff. 2,405,845; Aug. 13.
Combustion chamber. R. H. Goddard. 2,405,785; Aug. 13.
Compositions of matter. E. W. Bousquet. 2,405,559; Aug. 13.
Compounds. J. G. Lichty. 2,405,894; Aug. 13.
Compressor units, Making motor. F. I. Ratalczak. 2,405,904; Aug. 13.
Connecting means and radio shielding means therefor, Electrical. J. R. Frel. 2,405,881; Aug. 13.
Connector: *See*—
  Structural connector.
Contacting apparatus. F. L. Melvill. 2,405,594; Aug. 13.
Container: *See*—
  Sectional Thermos food container.
Container. B. Bogoslowsky. 2,405,682; Aug. 13.
Container. P. C. Gaylord. 2,405,823; Aug. 13.
Control apparatus. C. A. Blakeslee. 2,405,774; Aug. 13.
Control apparatus, Current. K. A. Lang. 2,405,837; Aug. 13.
Control device. M. N. Yardeny. 2,405,628; Aug. 13.
Control mechanism, Hammer. D. J. Patterson. 2,405,901; Aug. 13.
Control system, Burner. P. Arant. 2,405,807; Aug. 13.
Control system, Signal responsive. W. W. Moe. 2,405,843; Aug. 13.
Controller. F. Stoner. 2,405,769; Aug. 13.
Controlling apparatus, Railway traffic. H. A. Thompson. 2,405,860; Aug. 13.
Conveying apparatus. L. Winston. 2,405,920; Aug. 13.
Copolymer of styrene and fusable partial polymer of divinyl benzene. G. F. D'Alelio. 2,405,817; Aug. 13.
Core for metallic casting and composition for same. C. E. Hartwig and R. E. Roehrenbeck. 2,405,650; Aug. 13.
Correcting device, Ingrown nail. H. C. Armagost. 2,405,547; Aug. 13.
Corset. I. Rosner. 2,405,711; Aug. 13.
Counting mechanism. L. S. Williams. 2,405,626; Aug. 13.
Coupler for condenser microphones, Acoustic. H. C. Silent. 2,405,858; Aug. 13.
Coupling: *See*—
  Antenna coupling. Sealed flexible coupling.
Cover: *See*—
  Receptacle cover.
Crust or like former, Pie. W. M. Fletcher. 2,405,781; Aug. 13.

Cultivator wheel. A. B. Allen. 2,405,630; Aug. 13.
Cutting and creasing press. L. A. Whittaker and H. F. Peterson. 2,405,868; Aug. 13.
Cylinder lock. G. E. Swanson. 2,405,911; Aug. 13.
Dampener for struts, Variable pneumatic. W. F. Boldt. 2,405,733; Aug. 13.
Decorating apparatus, Candy. A. F. Fredricksen. 2,405,879; Aug. 13.
Defense system. N. Herzmark. 2,405,694; Aug. 13.
Derivatives of chlormethyl ethers of polyoxyethene glycols and producing same. D. Geltner. 2,405,784; Aug. 13.
Derivatives of resinous ethers of hydroxyaryl compounds. O. Albrecht, C. Graenacher, R. Sallmann, and C. Rossi. 2,405,806; Aug. 13.
Derrick, Portable. G. L. Loomis. 2,405,794; Aug. 13.
Detonator clamp. G. A. Tinnerman. 2,405,912; Aug. 13.
Device for cleaning floors. E. A. Beyer. 2,405,811; Aug. 13.
Device for freezing foods. H. W. Kleist. 2,405,834; Aug. 13.
Device for gummed cigarette papers, Moistening. G. Zint. 2,405,804; Aug. 13.
Device for liquid containers, Overflow. M. D. Riker. 2,405,849; Aug. 13.
Device for retarding the disengagement of automatic machines. A. Bechler. 2,405,635; Aug. 13.
Device for salvage of ships by compressed air. G. Hantjopoulos. 2,405,649; Aug. 13.
Diallyl phthalate, Making. J. K. Magrane, A. R. Esterly, and R. F. Davies. 2,405,842; Aug. 13.
Dicyanodiamide-ammonia condensation products and making same. J. Treboux. 2,405,863; Aug. 13.
Die set. A. Grunow. 2,405,825; Aug. 13.
Differential convertible gasoline-Diesel engine. L. N. Miller. 2,405,596; Aug. 13.
Differential, Positive drive. N. C. Bement. 2,405,732; Aug. 13.
Disk for timing systems, Lock. A. L. Denniston and S. H. Martin. 2,405,818; Aug. 13.
Dispensing apparatus, Gas. R. E. Poethig. 2,405,846; Aug. 13.
Display holder. J. C. Feeney and W. B. Banks. 2,405,780; Aug. 13.
Distributor, Fertilizer. H. E. Grether. 2,405,824; Aug. 13.
Dog clutch. C. M. Jameson. 2,405,698; Aug. 13.
Door equipment, Garage. W. D. Ferris and C. R. Wolf. 2,405,821; Aug. 13.
Door-hinging, door-checking, and door-holding device, Combined. R. I. Schonitzer. 2,405,719; Aug. 13.
Dough twisting machine. J. Buechek. 2,405,684; Aug. 13.
Drain fitting. N. A. Tornblom. 2,405,927; Aug. 13.
Drier: *See*—
  Hosiery drier.
Drier. C. E. Blanchard. 2,405,813; Aug. 13.
Drive structure for crawler tractors, Final. W. O. Bechman, H. A. Land, and R. D. Acton. 2,405,549; Aug. 13.
Driver for electro-acoustic transducers. H. C. Hayes and H. L. Saxton. 2,405,575; Aug. 13.
Driving mechanism for slashers, Beam. A. E. Silcox. 2,405,908; Aug. 13.
Driving mechanism, Power gun turret. A. Corte. 2,405,642; Aug. 13.
Driving mechanism, Rotary. R. F. Mallina. 2,405,588; Aug. 13.
Duct, Heater. J. Ledwinka and G. Trautvetter. 2,405,839; Aug. 13.
Dump truck and latch. W. W. Taylor. 2,405,721; Aug. 13.
Dust separator. L. C. Whiton, J. E. Watson, and C. B. McBride. 2,405,625; Aug. 13.
Electric heater. A. J. Gardenhour. 2,405,783; Aug. 13.
Electric thermal switch. E. E. Sprague. 2,405,767; Aug. 13.
Electrical apparatus. G. E. Wald. 2,405,929; Aug. 13.
Electrical apparatus, Oil-filled. S. J. Rosch. 2,405,853; Aug. 13.
Electrical heating apparatus. C. E. Weller. 2,405,866; Aug. 13.
Element and joint strut. M. Watter. 2,405,917; Aug. 13.
Elevating and steering mechanism for aircraft. H. Schmitt. 2,405,907; Aug. 13.
Elevator. C. E. Ellis. 2,405,691; Aug. 13.
Engine: *See*—
  Differential convertible gasoline-Diesel engine.
Equipment for aircraft, Pressurizing. N. C. Price. 2,405,670; Aug. 13.
Exchange structure, Heat. C. J. Villier. 2,405,722; Aug. 13.
Expansion and contraction joint. G. C. Mortenson. 2,405,844; Aug. 13.
Fastening device. O. J. Poupitch. 2,405,925; Aug. 13.
Fastening device. G. A. Tinnerman. 2,405,913; Aug. 13.
Fastening means. R. Van Rosen. 2,405,914; Aug. 13.
Filing cabinet. J. W. Paxton and I. R. Cornish. 2,405,668; Aug. 13.
Fire extinguishing apparatus. F. J. Hogenmiller, F. L. Boyd, and L. W. Boerner. 2,405,652; Aug. 13.
Firing mechanism. J. G. Seitz. 2,405,798; Aug. 13.
Fish scaling clamp. W. P. Shaks. 2,405,760; Aug. 13.
Flagstaff support. M. Lange. 2,405,701; Aug. 13.
Floor structure, Furnace. W. Sampson. 2,405,610; Aug. 13.
Flowmeter. M. P. Matuszak. 2,405,704; Aug. 13.
Folding box. G. J. Evans. 2,405,564; Aug. 13.
Forming machine, Doughnut. P. S. Premas. 2,405,903; Aug. 13.
Four-component objective. F. E. Altman. 2,405,729; Aug. 13.
Frame: *See*—
  Pool ball rack or frame.
Frameless window screen. D. J. Rust. 2,405,855; Aug. 13.
Fuel. J. M. Campbell. 2,405,560; Aug. 13.
Fuel control valve. G. M. Holley, Jr. 2,405,888; Aug. 13.
Fuse. A. Y. Leech, Jr., and H. H. Mohaupt. 2,405,840; Aug. 13.
Fuse for automatic destruction of shells. G. Honger. 2,405,653; Aug. 13.
Galvanizing. A. J. Mauger and A. H. Ward. 2,405,592; Aug. 13.
Gases, Recovery of acidic. A. W. Hixson and R. Miller. 2,405,747; Aug. 13.
Gauge: *See*—
  Taper hole gauge.
Gatherer, Hay. W. H. Rodefeld. 2,405,755; Aug. 13.
Gear: *See*—
  Retractable landing gear.
Generating fixture, Form tool chip breaker. W. F. Ross. 2,405,609; Aug. 13.
Generator: *See*—
  Vapor generator.
Golf bag carrier. A. M. Schliwa and F. E. Anderson. 2,405,674; Aug. 13.
Grain carrier. Q. J. Aaberg. 2,405,727; Aug. 13.
Grease, Process and apparatus for reclaiming. W. R. Mobley. 2,405,705; Aug. 13.
Grinder, Internal. W. Johnson. 2,405,748; Aug. 13.
Grinding mill. L. M. Barker and E. G. Lewis. 2,405,633; Aug. 13.
Grinding mill. J. R. Hall. 2,405,692; Aug. 13.
Gun for blasting and spraying. R. Ruemelin. 2,405,854; Aug. 13.
Gun mounting. G. H. Lazarus, Jr., and J. F. Bewley. 2,405,792; Aug. 13.
Harness, Parachute. J. R. C. Quilter and J. Gregory. 2,405,671; Aug. 13.
Harvester, Hay. W. H. Rodefeld. 2,405,756; Aug. 13.
Hearing mounting. P. L. Haager. 2,405,745; Aug. 13.
Heater: *See*—
  Electric heater.
Heterocyclic basis, Manufacture of. F. Bergel, N. C. Hindley, A. L. Morrison, and H. Rinderknecht. 2,405,555; Aug. 13.
Hoisting apparatus. E. W. Holmes. 2,405,578; Aug. 13.
Holder: *See*—
  Display holder. Soapstone holder.
  Lamp holder.
Hosiery drier. S. Heath and W. E. Greenlee. 2,405,746; Aug. 13.
Hydrocarbons, Alkylation of aromatic. E. F. Bullard, J. Anderson, and S. H. McAllister. 2,405,874; Aug. 13.
Hydrocarbons, Synthesis of. E. W. M. Fawcett and G. I. Jenkins. 2,405,565; Aug. 13.
Hydrogen sulphide from gas streams, Removal of. R. E. Reitmeier. 2,405,672; Aug. 13.
Indicating apparatus. T. M. Ferrill, Jr. 2,405,568; Aug. 13.
Indicator for contour plowing, Level. C. H. Batterman. 2,405,634; Aug. 13.
Indicator lamp. A. P. Berejkoff. 2,405,809; Aug. 13.
Insecticidal compositions. S. I. Gertler. 2,405,743; Aug. 13.
Insecticide and fungicide. W. E. Bradley. 2,405,775; Aug. 13.
Instrument bearing. K. M. Lederer and A. Dempster. 2,405,892; Aug. 13.
Jack: *See*—
  Window jack.
Jacket for internal-combustion engines, Cooling. C. G. Pullin. 2,405,847; Aug. 13.
Joint: *See*—
  Expansion and contraction joint.
  Pipe joint.
Joint assembly, Contraction. J. B. Hunt, Sr. 2,405,654; Aug. 13.
Joint for control devices for retractable members on board aircraft, Driving. C. R. Waseige. 2,405,623; Aug. 13.
Keyer, Variable dot. M. G. Crosby. 2,405,876; Aug. 13.
Knitting machine. F. Lambach. 2,405,583; Aug. 13.
Knob. T. S. Briskin. 2,405,683; Aug. 13.
Knocker, Door. W. Neuhaus. 2,405,916; Aug. 13.
Lamp: *See*—
  Indicator lamp. Multifilament lamp.
Lamp holder. P. O. Cartun. 2,405,815; Aug. 13.
Larynx construction, Artificial. O. Roberts. 2,405,850; Aug. 13.
Latch: *See*—
  Dump truck and latch.
Laundered article, System of pressing. W. F. Gayring. 2,405,882; Aug. 13.
Layout planner, Demonstration. H. A. Armbright. 2,405,808; Aug. 13.
Liquids, Ozonizing. D. K. Allison. 2,405,553; Aug. 13.

Lock: *See*—
Cylinder lock.
Lock slider, Reversible automatic. A. E. Carlile. 2,405,875; Aug. 13.
Lock slider, Reversible automatic. C. D. Gould. 2,405,883; Aug. 13.
Louver operating means. J. Ottl. 2,405,899; Aug. 13.
Lubricant, Compounded. D. T. Rogers. 2,405,607–8; Aug. 13.
Machine for progressive sheet metal forming. Die. H. V. Dettman. 2,405,738; Aug. 13.
Machine tool. R. H. Clark. 2,405,686; Aug. 13.
Machine tool. R. A. Schafer. 2,405,718; Aug. 13.
Magazine for safety razor blades. N. Testi. 2,405,621; Aug. 13.
Magnet, Permanent separating. J. J. Kehoe. 2,405,655; Aug. 13.
Magnetic detecting devices and supports therefor, Installing. J. F. G. Miller and R. MacHenry. 2,405,595; Aug. 13.
Magnetic fixture. J. H. Barrett. 2,405,773; Aug. 13.
Mail box fitting. W. R. Bankson. 2,405,730; Aug. 13.
Mask, Photographic tone correction. R. M. Evans and W. T. Hanson, Jr. 2,405,739; Aug. 13.
Measuring system, Frequency. O. R. Miller. 2,405,597; Aug. 13.
Mechanism for guiding multiple tools. T. Miller. 2,405,663; Aug. 13.
Meter: *See*—
Radiographic exposure meter.
Methyl formylchloro-acetate, Production of. H. E. Faith. 2,405,820; Aug. 13.
Mica and making the same, Integrated. M. D. Heyman. 2,405,576; Aug. 13.
Mill: *See*—
Grinding mill.
Mill roll stand. H. C. Behrens. 2,405,637; Aug. 13.
Milling machine for cutting teeth in rack blanks and transversely grooving the work, Automatic. O. Schaerer. 2,405,856; Aug. 13.
Milling machine, Profile. B. S. T. Bishop and F. A. Bicknell. 2,405,550; Aug. 13.
Mining machine, Placer. W. Thomas. 2,405,622; Aug. 13.
Mixer: *See*—
Motor-driven food mixer.
Moisturepoofing device. M. A. Shriro. 2,405,614; Aug. 13.
Molding materials. H. Kremer. 2,405,658; Aug. 13.
Motor-driven food mixer. E. Nielsen and A. W. Seyfried. 2,405,707; Aug. 13.
Motor system, Constant speed. G. Ogurkowski. 2,405,708; Aug. 13.
Mounting: *See*—
Gun mounting. Hearing mounting.
Mounting for damper plates, Pivotal. R. A. Walker. 2,405,770; Aug. 13.
Mounting stack. C. W. Barbour, Jr. 2,405,554; Aug. 13.
Multifilament lamp. J. H. Homrighous. 2,405,789; Aug. 13.
Mute for stringed musical instruments. R. B. Kingman. 2,405,700; Aug. 13.
Neckerchief display knot and making same. G. and V. F. Wipper. 2,405,921; Aug. 13.
Neoprene in aqueous media, Dispersions of. F. N. Wilder. 2,405,724; Aug. 13.
Net, Aircraft landing. H. T. Bogle. 2,405,556; Aug. 13.
New products. A. F. Hardman. 2,405,886; Aug. 13.
Nonspill vent plug. R. A. Daily and L. G. Crooks. 2,405,736; Aug. 13.
O:o'dihydroxy azo dyestuffs and their manufacture. A. Conzetti. 2,405,816; Aug. 13.
Oil, Turbine. H. Schindler and L. M. Henderson. 2,405,906; Aug. 13.
Oil well sand pump. H. G. Houston and J. B. Humphrey. 2,405,697; Aug. 13.
Opener, Refrigerator door. C. Hoffman. 2,405,887; Aug. 13.
Operating means, Aircraft ramp. G. Elwert. 2,405,878; Aug. 13.
Ophthalmic lens blank, Multifocal. J. H. Hammon. 2,405,826; Aug. 13.
Orienting apparatus. C. H. Schadel. 2,405,717; Aug. 13.
Oven, Drying. C. W. Attwood. 2,405,631; Aug. 13.
Oxygen liberating composition, Preparing. D. A. Feigley, Jr. 2,405,566; Aug. 13.
Ozonizer. D. K. Allison. 2,405,728; Aug. 13.
Package, Match. H. B. Watkins. 2,405,865; Aug. 13.
Packing for vapor and liquid contacting apparatus. F. L. Melvill. 2,405,593; Aug. 13.
Pad: *See*—
Watch box pad.
Panel, Filter. O. H. Schaaf. 2,405,716; Aug. 13.
Pasting machine, Counter. C. M. Bagshaw. 2,405,548; Aug. 13.
Peanut protein, Recovering. G. W. Irving, Jr., A. L. Merrifield, R. S. Burnett, and E. D. Parker. 2,405,830; Aug. 13.
Pen, Leak-proof fountain. B. Grafton. 2,405,787; Aug. 13.
Perforated pie coverings, Method and apparatus for forming. J. MacManus. 2,405,661; Aug. 13.
Phosphates, Preparing aluminum. H. H. Greger. 2,405,884; Aug. 13.
Pipe joint. J. Ferla. 2,405,567; Aug. 13.
Pipe wrench. A. M. Rowland. 2,405,757; Aug. 13.
Plant, Well drilling. M. T. Archer. 2,405,546; Aug. 13.
Plug: *See*—
Nonspill vent plug.
Plug connection, Hospital. W. P. Crockett. 2,405,735; Aug. 13.
Polymer, Terpene. J. N. Borglin. 2,405,558; Aug. 13.
Pool hall rack or frame. M. Volpe. 2,405,677; Aug. 13.
Portable electric tool. R. Happe. 2,405,827; Aug. 13.
Power plant, Marine. R. Strub. 2,405,676; Aug. 13.
Power unit. E. A. Rockwell. 2,405,852; Aug. 13.
Predetermining device, Automatic. W. H. Marsh and E. Thoresen. 2,405,589; Aug. 13.
Press: *See*—
Cutting and creasing press. Rotary printing press.
Pressure actuating system, Combined air hydraulic. S. Schnell. 2,405,759; Aug. 13.
Printing machine. W. T. Gollwitzer. 2,405,786; Aug. 13.
Printing, Multicolor. A. Murray. 2,405,754; Aug. 13.
Printing plate and making same, Square finish photo-engraved halftone. L. Kern. 2,405,749; Aug. 13.
Privacy system. D. Mitchell. 2,405,599; Aug. 13.
Processing machine, Grain. L. E. Egedal. 2,405,561; Aug. 13.
Program instrument. R. L. Lorenz. 2,405,841; Aug. 13.
Projector, Picture. G. E. Musebeck and F. P. Bennett. 2,405,706; Aug. 13.
Propulsion apparatus. S. Way. 2,405,723; Aug. 13.
Pump: *See*—
Oil well sand pump. Self-priming pump.
Pumping apparatus. H. S. Coe. 2,405,734; Aug. 13.
Push-button switch. G. A. Wahlstrom. 2,405,679; Aug. 13.
Pyranthrone, Preparing. H. R. Lee, J. Deinet, and H. B. Gottlieb. 2,405,702; Aug. 13.
Radiographic exposure meter. H. Friedman. 2,405,572; Aug. 13.
Range finders, Variable circle for stadiametric. J. S. Beggs, D. B. McRae, and J. H. Eagle. 2,405,731; Aug. 13.
Razor, Safety. K. Holder. 2,405,577; Aug. 13.
Receptacle: *See*—
Collapsible receptacle.
Receptacle cover. A. Ottesen. 2,405,667; Aug. 13.
Refrigeration, Low-temperature chamber. E. Lodwig. 2,405,895; Aug. 13.
Register, Game. A. W. Dew. 2,405,690; Aug. 13.
Remote control apparatus with unidirectional stopping. M. N. Yardeny. 2,405,629; Aug. 13.
Remote control system. E. C. Wahlberg. 2,405,678; Aug. 13.
Repeater, Radio. J. E. Smith. 2,405,765; Aug. 13.
Resiliently supported shear block. W. J. Miller. 2,405,598; Aug. 13.
Resonators, Vacuum tube utilizing cavity. D. H. Sloan. 2,405,763; Aug. 13.
Retractable landing gear. L. H. Height. 2,405,651; Aug. 13.
Retreading, Tire. F. H. Taber. 2,405,802; Aug. 13.
Rivet. S. Milone and C. W. Rothfeld. 2,405,897; Aug. 13.
Rivets, Setting. S. Milone and C. W. Rothfeld. 2,405,898; Aug. 13.
Roller for boat and the like, Dock. B. L. Berg and C. E. Watson. 2,405,810; Aug. 13.
Rotary printing press. H. J. Luehrs. 2,405,795; Aug. 13.
Rotor, Foldable. M. D. Bulvid. 2,405,777; Aug. 13.
Rowlock. H. V. Larsen. 2,405,659; Aug. 13.
Rule, Slide. A. L. Snedaker. 2,405,720; Aug. 13.
Saw, Portable pulpwood. L. H. Mathis. 2,405,896; Aug. 13.
Scale, Azimuth. R. E. Mullendore. 2,405,601; Aug. 13.
Screen: *See*—
Frameless window screen.
Sealed flexible coupling. G. E. Franck. 2,405,822; Aug. 13.
Seals, Forming. C. A. Southwick, Jr., and A. F. Stagmeier. 2,405,675; Aug. 13.
Sectional thermos food container. E. C. Smith. 2,405,764; Aug. 13.
Self-priming pump. H. E. La Bour. 2,405,836; Aug. 13.
Separator: *See*—
Dust separator.
Separator apparatus, Liquid. A. Lawson and C. M. Young. 2,405,838; Aug. 13.
Serving machine, Strip. T. H. Krueger. 2,405,790; Aug. 13.
Sewing machine. S. W. Avis. 2,405,871; Aug. 13.
Shackle, Poultry. F. J. Bilek. 2,405,638; Aug. 13.
Shaft motion for hand looms, Heald. P. Florjancic and E. Boral. 2,405,782; Aug. 13.
Sheet material, Method of and apparatus for perforating. G. F. Ryan. 2,405,714; Aug. 13.
Shield, Detonation. W. P. Mason. 2,405,590; Aug. 13.
Shock absorber, Friction. G. E. Dath. 2,405,644; Aug. 13.
Soapstone holder. A. A. Plut. 2,405,797; Aug. 13.
Sole for shoes, Platform. R. Almy. 2,405,870; Aug. 13.

Stand: *See*—
Mill roll stand.
Stay for corsets. I. Panes. 2,405,900; Aug. 13.
Stitching machine. W. R. Spiller and R. J. Niederhauser. 2,405,800; Aug. 13.
Stop mechanism. O. J. E. Olsson. 2,405,709; Aug. 13.
Structural connector. A. Crot. 2,405,643; Aug. 13.
Structural member, Tubular. H. E. Somes. 2,405,859; Aug. 13.
Structure for bending sheet metal, Die. F. Crawford. 2,405,778; Aug. 13.
Structure for loading trailers on flatcars. B. E. Johnston. 2,405,833; Aug. 13.
Sulphide ores, Flotation of. C. H. Keller. 2,405,581; Aug. 13.
Sulphosuccinates and making same, Certain. M. De Groote and B. Keiser. 2,405,737; Aug. 13.
Sulphur compounds from hydrocarbon oil, Removing weakly acidic. G. W. Ayers and D. M. Barton. 2,405,872; Aug. 13.
Sulphur compounds from hydrocarbon polymers, Removal of. H. Schindler. 2,405,905; Aug. 13.
Support: *See*—
Flagstaff support.
Support. H. U. Dustman. 2,405,819; Aug. 13.
Support for windings in magnetizing cores. F. J. Sigmund and W. S. Hlavin. 2,405,615; Aug. 13.
Supporting filaments in vacuum tubes, Structure for. D. H. Sloan. 2,405,762; Aug. 13.
Survey instrument, Power. O. A. Knopp. 2,405,656–7; Aug. 13.
Switch: *See*—
Electric thermal switch. Thermostatic switch.
Push-button switch.
Switch relay, Mercury. E. G. Henry. 2,405,923; Aug. 13.
Synchronizing a plurality of oscillations. M. Ziegler. 2,405,771; Aug. 13.
Synchronizing apparatus, Flash lamp. C. C. Fuerst. 2,405,741; Aug. 13.
Tape, Slide fastener stringer. N. J. Poux. 2,405,902; Aug. 13.
Tape, Venetian blind. J. L. Hunter. 2,405,579; Aug. 13.
Taper hole gauge. R. E. Gray. 2,405,648; Aug. 13.
Taping machine. G. Fulfer. 2,405,742; Aug. 13.
Telegraph system, Cryptographic. J. W. Dehn. 2,405,570; Aug. 13.
Telegraph system, Cryptographic. K. E. Fitch and G. A. Locke. 2,405,569; Aug. 13.
Telegraph system, Cryptographic. K. E. Fitch and G. A. Locke. 2,405,571; Aug. 13.
Telemetric apparatus. J. N. Swarr. 2,405,801; Aug. 13.
Telephone system. R. Taylor and G. T. Baker. 2,405,620; Aug. 13.
Temperature and pressure control. R. W. Jensen. 2,405,831; Aug. 13.
Tensioning device, Yarn. E. C. Gwaltney and H. R. Marsh. 2,405,885; Aug. 13.
Tester, Echo box resonance. J. W. Brannin. 2,405,814; Aug. 13.
Testing machine, Valve. W. A. Marshall, Jr. 2,405,924; Aug. 13.
Theatrical apparatus. W. R. Spohn. 2,405,766; Aug. 13.
Thermostatic switch. A. Wild. 2,405,869; Aug. 13.
Tire. C. F. Crumb. 2,405,688; Aug. 13.
Toluene, Producing. N. F. Linn. 2,405,660; Aug. 13.
Tool: *See*—
Machine tool. Portable electric tool.
Tool for installing nut plates or the like. J. Davis. 2,405,779; Aug. 13.
Toy submarine. F. Sabini. 2,405,715; Aug. 13.
Trachea connection. O. Roberts. 2,405,851; Aug. 13.
Training device. W. P. Mason. 2,405,591; Aug. 13.
Transformer, Fluid flow energy. F. Whittle. 2,405,919; Aug. 13.
Translation device, Compressional wave. T. J. Pope. 2,405,604; Aug. 13.
Translation device, Signal. W. D. Goodale, Jr., and F. F. Romanow. 2,405,605; Aug. 13.
Transmission, Fluid. T. L. Morris. 2,405,600; Aug. 13.
Transmission means for electrical telemetric systems, Plural. C. A. de Giers. 2,405,689; Aug. 13.
Transmission system, Date. R. D. Parker, W. T. Rea, and F. J. Singer. 2,405,603; Aug. 13.
Transmission system, Date. F. J. Singer. 2,405,617; Aug. 13.
Transmission system, Permutation code data. E. M. Smith. 2,405,618; Aug. 13.
Treating and composition for cover cloth. J. G. Mackechnie, Jr. 2,405,703; Aug. 13.
Truck, Cargo. R. F. Leftwich. 2,405,893; Aug. 13.
Truck, Dispensing. J. Toomey. 2,405,862; Aug. 13.
Truck, Lift. G. Quayle. 2,405,848; Aug. 13.
Truing apparatus, Grinding wheel. B. S. T. Bishop and F. A. Bicknell. 2,405,551; Aug. 13.
Tube and making same, Electron. J. S. Vansant. 2,405,915; Aug. 13.
Tubes, Producing threaded spiral. R. B. Smith and M. W. Latimer. 2,405,909; Aug. 13.
Tuner, Inductive. W. H. Kunz. 2,405,890; Aug. 13.
Ultra-high frequency resonant cavities. S. A. Schelkunoff. 2,405,612; Aug. 13.
Valve: *See*—
Fuel control valve.
Valve and faucet, Drum. W. R. J. Woock. 2,405,681; Aug. 13.
Valve apparatus, Pulse generating thermionic. A. D. Blumlein and E. L. C. White. 2,405,552; Aug. 13.
Vapor generator. M. Frisch. 2,405,573; Aug. 13.
Variable-speed power transmission mechanisms, Controlling. H. M. Kesterton. 2,405,699; Aug. 13.
Vehicle: *See*—
Coal mine haulage vehicle.
Vending machine, Vertical. H. T. Larimore. 2,405,891; Aug. 13.
Volatile ester of hydroxy carbolic acids, Manufacturing. E. M. Filachione and C. H. Fisher. 2,405,646; Aug. 13.
Vibrator, Electromagnetic. W. S. Simmie. 2,405,761; Aug. 13.
Watch box pad. S. Flier. 2,405,880; Aug. 13.
Watch crown, Adjustable watertight and dusttight. W. Feurer. 2,405,928; Aug. 13.
Weight adjustment, Bathroom scale. J. C. Sutton. 2,405,619; Aug. 13.
Welding. S. M. Norwood. 2,405,666; Aug. 13.
Welding, Electric. E. B. Scherl. 2,405,673; Aug. 13.
Wheel: *See*—
Cultivator wheel.
Wheel structure. G. A. Lyon. 2,405,585–7; Aug. 13.
Wig construction. H. J. Lamoureux. 2,405,791; Aug. 13.
Window jack. F. J. Cantrell. 2,405,685; Aug. 13.
Wing construction, Airplane. E. F. Zap. 2,405,726; Aug. 13.
Wiper, Windshield. T. J. Smulski. 2,405,910; Aug. 13.
Working and cultivating machine, Earth. H. D. May. 2,405,796; Aug. 13.
Wrapper preparing mechanism for cigar machines. H. H. Wheeler. 2,405,867; Aug. 13.
Wrench: *See*—
Pipe wrench.
Wringer. O. E. Johnson. 2,405,832; Aug. 13.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 13, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 15: 2,405,800
2— 28: 2,405,711
36: 2,405,900
93: 2,405,647
139: 2,405,788
149: 2,405,921
3— 1: 2,405,850
2,405,851
4— 206: 2,405,849
8— 57: 2,405,669
9— 26: 2,405,659
10— 129: 2,405,718
135: 2,405,772
12— 80: 2,405,548
15— 250: 2,405,910
16— 141: 2,405,719
17— 8: 2,405,760
44.1: 2,405,638
18— 59: 2,405,802
20— 2: 2,405,584
19: 2,405,821
22— 188: 2,405,650
23— 2: 2,405,672
105: 2,405,884
178: 2,405,747
184: 2,405,580
24— 19: 2,405,913
20: 2,405,912
205.5: 2,405,875
2,405,883
28— 39: 2,405,908
29— 64: 2,405,686
148: 2,405,904
148.2: 2,405,544
164: 2,405,793
30— 32: 2,405,577
33— 174: 2,405,648
209: 2,405,634
34— 68: 2,405,813
35— 7: 2,405,808
25: 2,405,591
36— 25: 2,405,870
38— 3: 2,405,882
42— 69: 2,405,798
72: 2,405,758
44— 69: 2,405,560
45— 2: 2,405,668
46— 94: 2,405,715
172: 2,405,791
49— 5: 2,405,557
51— 11: 2,405,854
43: 2,405,748
50: 2,405,635
100: 2,405,609
186: 2,405,680
57— 130: 2,405,889
58— 90: 2,405,928
60— 35.6: 2,405,723
2,405,919
41: 2,405,888
44: 2,405,785
52: 2,405,759
54.6: 2,405,852
61— 63: 2,405,595
62— 1: 2,405,846
102: 2,405,834
62— 102: 2,405,895
66— 82: 2,405,583
67— 29: 2,405,741
68— 176: 2,405,665
205: 2,405,857
262: 2,405,641
365: 2,405,832
70— 364: 2,405,911
72— 68: 2,405,610
73— 7: 2,405,924
205: 2,405,704
313: 2,405,689
74— 305: 2,405,623
388: Re.22,779
389.5: 2,405,732
473: 2,405,699
526: 2,405,818
547: 2,405,683
606: 2,405,549
78— 49: 2,405,779
84— 240: Re.22,777
311: 2,405,700
85— 37: 2,405,897
88— 2.3: 2,405,731
27: 2,405,706
54: 2,405,826
57: 2,405,729
89— 1.5: 2,405,752
37: 2,405,792
37.5: 2,405,642
41: 2,405,694
90— 9: 2,405,856
13.5: 2,405,550
91— 14.5: 2,405,790
54.4: 2,405,804
93— 94: 2,405,909
94— 13: 2,405,556
17: 2,405,654
18: 2,405,844
95— 2: 2,405,739
90.5: 2,405,645
97— 170: 2,405,796
217: 2,405,630
98— 1.5: 2,405,670
99— 289: 2,405,751
100— 20: 2,405,688
71: 2,405,640
101— 96: 2,405,562
211: 2,405,754
247: 2,405,795
401.3: 2,405,749
102— 71: 2,405,653
78: 2,405,840
103— 41: 2,405,596
44: 2,405,734
113: 2,405,836
204: 2,405,697
105— 253: 2,405,696
106— 172: 2,405,926
107— 1: 2,405,879
8: 2,405,684
15: 2,405,781
52: 2,405,903
54: 2,405,661
109— 5: 2,405,710
81: 2,405,590
111— 7: Re.22,778
112— 159: 2,405,871
114— 50: 2,405,649
116— 167: 2,405,916
117— 51: 2,405,592
72: 2,405,658
143: 2,405,703
120— 13: 2,405,797
48: 2,405,787
122— 448: 2,405,573
123— 173: 2,405,847
125— 11: 2,405,551
128— 81: 2,405,547
131— 101: 2,405,867
137— 69: 2,405,639
139: 2,405,736
138— 42: 2,405,927
139— 32: 2,405,782
384: 2,405,902
140— 71: 2,405,725
143— 43: 2,405,896
150— 49: 2,405,627
151— 38: 2,405,925
153— 21: 2,405,738
2,405,778
40: 2,405,750
154— 2.6: 2,405,576
42: 2,405,675
140: 2,405,602
158— 28: 2,405,807
160— 178: 2,405,579
327: 2,405,855
161— 3: 2,405,841
164— 19: 2,405,868
58: 2,405,598
86: 2,405,825
93: 2,405,714
166— 4: 2,405,859
167— 28: 2,405,775
30: 2,405,743
78: 2,405,740
169— 15: 2,405,652
170— 164: 2,405,777
171— 34: 2,405,656
2,405,657
95: 2,405,801
119: 2,405,837
206: 2,405,615
242: 2,405,890
172— 36: 2,405,827
179: 2,405,769
239: 2,405,628
2,405,629
2,405,678
2,405,774
281: 2,405,708
173— 328: 2,405,554
174— 35: 2,405,881
175— 367: 2,405,773
368: 2,405,597
177— 311: 2,405,814
2,405,929
329: 2,405,809
337: 2,405,568
351: 2,405,603
2,405,617
177— 352: 2,405,575
353: 2,405,618
386: 2,405,604
2,405,605
178— 22: 2,405,569
2,405,570
2,405,571
44: 2,405,612
2,405,616
2,405,845
179— 1.5: 2,405,599
27: 2,405,620
171: 2,405,611
180— 54: 2,405,636
181— 0.5: 2,405,858
183— 11: 2,405,812
34: 2,405,624
37: 2,405,625
69: 2,405,716
187— 17: 2,405,691
189— 15: 2,405,794
36: 2,405,643
37: 2,405,917
192— 28: 2,405,545
59: 2,405,600
67: 2,405,698
68: 2,405,582
143: 2,405,709
144: 2,405,588
193— 42: 2,405,810
196— 30: 2,405,872
52: 2,405,922
197— 124: 2,405,786
198— 20: 2,405,805
2,405,920
200— 50: 2,405,815
51: 2,405,735
67: 2,405,679
89: 2,405,606
112: 2,405,923
139: 2,405,767
2,405,869
202— 234: 2,405,877
204— 192: 2,405,662
196: 2,405,776
319: 2,405,728
206— 4: 2,405,764
16: 2,405,621
29: 2,405,865
75: 2,405,880
79: 2,405,780
209— 74: 2,405,829
166: 2,405,581
210— 27: 2,405,553
43: 2,405,838
56: 2,405,705
203: 2,405,853
212— 59: 2,405,578
214— 15: 2,405,893
26: 2,405,811
38: 2,405,833
78: 2,405,755
79: 2,405,756
83: 2,405,727
216— 33: 2,405,742
218— 19: 2,405,613
218— 29: 2,405,898
219— 8: 2,405,666
2,405,761
10: 2,405,673
14: 2,405,828
15: 2,405,663
26: 2,405,866
34: 2,405,631
39: 2,405,783
220— 48: 2,405,667
85: 2,405,614
222— 14: 2,405,589
239: 2,405,824
400: 2,405,681
507: 2,405,682
223— 77: 2,405,746
224— 44: 2,405,744
229— 5.5: 2,405,823
41: 2,405,564
52: 2,405,914
230— 122: 2,405,768
232— 17: 2,405,730
234— 43: 2,405,901
235— 1: 2,405,687
61: 2,405,803
70: 2,405,720
84: 2,405,601
114: 2,405,690
136: 2,405,626
236— 34: 2,405,831
45: 2,405,770
241— 70: 2,405,633
162: 2,405,561
239: 2,405,692
242— 58: 2,405,637
149: 2,405,885
244— 42: 2,405,726
88: 2,405,907
102: 2,405,651
119: 2,405,918
137: 2,405,878
151: 2,405,671
246— 3: Re.22,780
38: 2,405,860
248— 43: 2,405,701
49: 2,405,819
250— 11: 2,405,930
15: 2,405,765
17: 2,405,876
27: 2,405,664
2,405,843
27.5: 2,405,762
2,405,915
36: 2,405,552
2,405,771
83.6: 2,405,572
252— 1: 2,405,693
32.7: 2,405,608
42.7: 2,405,712
2,405,713
46.7: 2,405,607
52: 2,405,906
186: 2,405,566
316: 2,405,861
254— 2: 2,405,848
255— 1.6: 2,405,717
255— 19: 2,405,546
35: 2,405,757
257— 136: 2,405,839
137: 2,405,722
259— 72: 2,405,707
260— 9: 2,405,724
42: 2,405,817
51: 2,405,806
69: 2,405,863
80: 2,405,558
112: 2,405,830
163: 2,405,816
178: 2,405,835
294: 2,405,555
326: 2,405,559
360: 2,405,702
401: 2,405,737
404: 2,405,784
475: 2,405,842
483: 2,405,820
484: 2,405,646
487: 2,405,894
521: 2,405,873
529: 2,405,574
566: 2,405,886
671: 2,405,874
673.5: 2,405,660
677: 2,405,905
683.4: 2,405,565
261— 51: 2,405,563
94: 2,405,593
2,405,594
262— 2: 2,405,622
265— 68: 2,405,619
267— 9: 2,405,644
64: 2,405,733
268— 72: 2,405,887
96: 2,405,899
272— 9: 2,405,766
273— 22: 2,405,677
280— 34: 2,405,674
53: 2,405,862
284— 4: 2,405,864
285— 90: 2,405,822
112: 2,405,567
290— 4: 2,405,676
294— 65.5: 2,405,655
87: 2,405,753
298— 38: 2,405,721
301— 37: 2,405,585
2,405,586
2,405,587
302— 37: 2,405,695
303— 22: 2,405,632
304— 24: 2,405,685
308— 159: 2,405,892
207: 2,405,745
240: 2,405,799
312— 48: 2,405,891
315— 5: 2,405,763
65: 2,405,789

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,405,563: 261—51
2,405,576: 154—2.6
2,405,594: 261—94
2,405,602: 154—140
2,405,682: 222—507
2,405,689: 73—313
2,405,703: 117—143
2,405,724: 260—9
2,405,742: 216—33
2,405,760: 17—8
2,405,761: 219—8
2,405,803: 235—61
2,405,812: 183—11
2,405,825: 164—86
2,405,844: 94—18
2,405,906: 252—52

Classification of Designs

D 3— 4: Des. 145,409
26: Des. 145,376
D 4— 4: Des. 145,374
D 7— 5: Des. 145,378
D17— 6: Des. 145,377
D31— 4: Des. 145,405
D34— 4: Des. 145,395
D34— 5: Des. 145,391
Des. 145,408
15: Des. 145,390
Des. 145,407
D40— 1: Des. 145,411
D42— 7: Des. 145,375
D45—19: Des. 145,394
D55— 1: Des. 145,406
D61— 1: Des. 145,412
Des. 145,413
D78— 1: Des. 145,393
D81—10: Des. 145,410
D86—10: Des. 145,392
D92—26: Des. 145,379
D92—26: Des. 145,380
Des. 145,381
Des. 145,382
Des. 145,383
Des. 145,384
Des. 145,385
Des. 145,386
D92—26: Des. 145,387
Des. 145,388
Des. 145,389
Des. 145,396
Des. 145,397
Des. 145,398
Des. 145,399
D92—26: Des. 145,400
Des. 145,401
Des. 145,402
Des. 145,403
Des. 145,404

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 589—No. 3 TUESDAY, AUGUST 20, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of August 20, 1946	327
Disclaimers	327
Foreign Patents Received in the Scientific Library	327
Notice	327
Rule 72	327
Applications Under Examination	328
Decisions of the U. S. Courts—	
Beall v. Ormsby	329
Lustig v. Legat	333
In re Crawford	336
Patent Suits	338
Notices of Cancellation	339
Register of Patents Available for Licensing or Sale	340
Trade-Marks Published (95 Applications)	343
Trade-Mark Registrations Granted	355
Trade-Mark Registrations Renewed	375
Reissues	381
Plant Patents	381
Patents Granted	382
Designs	476

August 20, 1946

Trade-Marks	296	No. 422,907 to No.	423,202,	inclusive.
T. M. Renewals	119			
Reissues	2	No. 22,781 to No.	22,782,	inclusive.
Plant Patents	1	No. 709		
Patents	379	No. 2,405,931 to No.	2,406,309,	inclusive.
Designs	58	No. 145,414 to No.	145,471.	inclusive.
Total	855			

Disclaimers

2,161,766.—*Edward W. Rugeley, Theophilus A. Feild, Jr.,* and *John F. Conlon,* Charleston, W. Va. Synthetic Fiber. Patent dated June 6, 1939. Disclaimer filed July 22, 1946, by the assignee, *Carbide and Carbon Chemicals Corporation.*

Hereby enters this disclaimer to claims 1 to 6 inclusive, and claim 11 in the said specification.

2,252,149.—*Dale J. Wherry,* St. Louis, Mo. Piston Stabilizer and Recam. Patent dated Aug. 12, 1941. Disclaimer filed July 11, 1946, by the inventor.

Hereby enters this disclaimer to claims 1, 6, and 7 of said patent.

2,330,846.—*Frank V. Sander,* Highland Park, N. J. Spermicide. Patent dated Oct. 5, 1943. Disclaimer filed July 19, 1946, by the assignee, *Ortho Pharmaceutical Corporation.*

Hereby enters this disclaimer to claim 1 in said specification.

Foreign Patents Received in the Scientific Library as of August 1, 1946

Country	Date received	Highest number
Australia	June 18, 1946	121,046
Austria	Jan. 23, 1946	160,920
Czechoslovakia	Mar. 27, 1940	66,500
Denmark	May 14, 1946	64,295
Finland	May 14, 1946	[1] 20,976
France (*Patents*)	May 20, 1946	868,000
(*Additions*)	May 20, 1946	51,250
Germany	June 7, 1946	750,986
Great Britain	June 11, 1946	576,822
Hungary	July 7, 1942	[1] 128,400
India	Jan. 8, 1946	[1] 32,414
Italy	Aug. 22, 1941	382,000
Japan	Aug. 4, 1941	141,060
Netherlands	June 7, 1946	57,376
Norway	June 7, 1946	70,379
Poland	Aug. 30, 1939	28,270
Sweden	July 15, 1946	116,301
Switzerland	June 28, 1946	[1] 241,005

[1] Recent files incomplete.

Notice

U. S. Patent Office, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Rule 72

Rule 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the paper which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Condition of Applications Under Examination at Close of Business August 2, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 120,284; Trade-Mark Division, 9,692. Oldest new case, February 12, 1945; oldest amended, February 20, 1945.)
(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Apr. 24	May 30	2103
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	May 5	May 18	2595
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 5	Apr. 19	1862
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Aug. 1	Aug. 11	2098
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Apr. 11	Apr. 9	3291
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 31	Oct. 11	1693
7. JARBOE, C. G., Optics, Photography	Oct. 1	Sept. 19	2089
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	July 7	July 14	2777
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 13	Apr. 19	1961
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	June 30	June 20	1440
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 22	Dec. 29	613
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 19	June 13	2235
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 28	1880
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 10	Aug. 29	1311
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	July 18	Aug. 6	1305
16. LOVEWELL, N. N., Telegraphy; Telephony	Aug. 9	July 14	1201
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 17	Feb. 20	1116
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 28	June 29	1671
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 10	Sept. 11	1468
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 1	1624
21. THOMPSON, T. J., Textiles	Oct. 31	Nov. 23	744
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Aug. 9	June 29	1716
23. LEWIS, J. B., Cash Registers; Calculators (part)	May 28	June 6	259
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Dec. 7	Nov. 10	1089
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	June 13	July 18	1469
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 15	May 7	1841
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Apr. 25	Apr. 19	1888
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 11	May 9	1317
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	June 7	May 19	2018
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	June 4	June 20	2128
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 18	Jan. 17	938
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 8	Aug. 23	1728
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	June 6	June 4	2479
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	May 31	Aug. 6	1122
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	July 7	Aug. 8	1670
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 28	May 30	1401
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 13	May 3	1373
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	July 9	July 3	1200
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 21	Apr. 23	2210
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 10	Sept. 6	2202
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Apr. 9	Apr. 11	836
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Sept. 14	Sept. 11	946
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	May 22	June 6	1290
44. HARVEY, L. P., Refrigeration; Preserving	Apr. 5	May 2	1132
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	July 5	July 9	2212
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	July 11	Aug. 9	1256
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Sept. 17	Sept. 4	2356
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 24	Apr. 3	1836
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 3	Aug. 6	1442
50. LEVIN, SAMUEL, Synthetic Resins	Aug. 8	Aug. 8	2257
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	May 14	May 16	2161
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	May 3	June 15	2852
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	May 10	May 4	2880
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	May 12	May 14	2025
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 18	July 18	1575
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	May 29	June 22	1527
57. NICOLSON, G. D., Toys, Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 12	May 7	2538
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Aug. 20	Nov. 10	1156
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	May 7	May 2	2035
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	May 11	July 12	1845
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	May 26	June 5	2276
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 17	Mar. 23	3155
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 28	May 16	1990
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 22	Dec. 21	1166
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 7	May 10	2286
Trade-Marks: RICHMOND, F. A.	†Apr. 2	Dec. 1	9692
Designs: KALUPY, H. H.	†May 7	Nov. 8	6129

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

Beall v. Ormsby

Nos. 5,031 and 5,032. Decided April 1, 1946

[154 F.(2d) 663; 69 USPQ 314]

1. Interference—Burden of Proof—Originality.

The question of originality raised by Beall, the junior party, *Held* to be one of fact; and *Held* that "the burden rested upon Beall to establish derivation by Ormsby by a preponderance of evidence."

2. Same—Evidence—Originality.

Where Beall made a demand upon the attorney for Ormsby to produce letters and sketches "alleged to have been a disclosure of Beall's conception," which were in the possession of Ormsby's assignee "during at least a part of the time while Ormsby was working on the invention," and that demand was not complied with, and Beall urged that "those circumstances strongly indicate that Ormsby did have knowledge of Beall's conception and used it in his work," *Held* that the refusal to produce the letters and sketches should not be regarded as discrediting Ormsby's positive testimony denying such knowledge, and that upon the record presented there was no justification for "holding that counsel was not within his rights in declining to produce them."

3. Appeal—Interference—Manifest Error.

"This court will not reverse the findings of fact made by the Board of Interference Examiners unless convinced that such findings are manifestly wrong."

4. Interference—Diligence—Delay in Filing Application.

Held that Beall's delay in filing his application might not be excused by his expectations that an application would be filed in his behalf by Ormsby's assignee.

5. Appeal—Brief.

Held that the brief on behalf of Ormsby would be received, though filed late, and his counsel would be heard in oral argument, "not out of courtesy to counsel for Ormsby, but because the court felt it necessary to have the aid of brief and argument in studying the complicated records involved."

Appeal from the Patent Office. Affirmed.

Mr. H. L. Kirkpatrick and *Mr. John M. Mason* (*Mr. A. D. Salinger* and *Mr. J. L. Stackpole* of counsel) for Beall.

Mr. Walter E. Schirmer (*Mr. John A. Dienner* of counsel) for Ormsby.

Garrett, *P. J.*:

These are companion cases in which appeals were taken by the party Beall from decisions of the Board of Interference Examiners of the United States Patent Office awarding priority to the party Ormsby upon counts involved in two interference proceedings.

Both interferences were declared, so far as Beall and Ormsby are concerned, between the same applications. The Beall application, Serial No. 287,424, was filed July 29, 1939, and is not assigned. The Ormsby application, Serial No. 256,947, which appears to have been assigned to his employer, the Clark Equipment Company, of Buchanan, Mich., was filed February 17, 1939. We hereinafter refer to that company as the Clark Company.

Interference No. 78,350 (appeal No. 5031), in the final form declared by the Examiner, was a three-party interference, an application of one George D. Wilcox being involved therein. His application was filed December 19, 1938. Hence, he was there the senior party, the order being, respectively, Wilcox, Ormsby, Beall. It appears that a one-half interest in the Wilcox application was assigned to one Frederick J. Haynes, and that they by instruments executed, respectively, on October 28, 1938, and December 12, 1939, granted the Clark Company an exclusive license for its use, it being a part of the agreement that the company was to prosecute the application and "develop the device."

Priority as to two counts (Nos. 8 and 9) of the three-party interference was awarded Wilcox in the Board's decision rendered December 23, 1943, and neither Beall nor Ormsby appealed. Ormsby, in fact, is stated to have filed a concession of priority to Wilcox on those counts prior to the Board's decision, and Beall, according to the Board's statement, in effect, conceded priority on them to Wilcox.

As to the other counts (1 to 7, inclusive, 10, and 12) priority was awarded Ormsby, and Wilcox took no appeal. So, Wilcox is not a party before us, and the only part of his record (except as it is referred to in the Board's decision) in the record before us is one documentary exhibit (Wilcox Exhibit 28) which is of no importance in deciding the issues before us.

The situation existing before the Board, as of course, necessitated separate decisions by that tribunal and, although the issues as between Beall and Ormsby are substantially the same in both cases, we treat them separately.

Upon the merits two issues are presented before us, viz. (1) originality and (2) diligence on the part of Beall.

The primary issue is that of originality. Counsel for Beall insist that Ormsby derived his knowledge of the invention from Beall. If that contention be sustained it would end the case, so far as this court is concerned, but if not sustained the question of Beall's diligence must be considered because of the date awarded him by the Board for conception, which award is not questioned before us by Ormsby.

Interference No. 78,350, Appeal No. 5031

In its decision in this case the Board described the invention in controversy as follows:

The subject matter of this interference relates to a vehicle unit provided with an auxiliary engine to assist the main engine during periods of difficulty such as climbing hills and going through mud. It is desired to have a fully automatic system not under control of the operator to start and couple the auxiliary or booster engine during such periods of difficulty, to cut it out when a certain maximum speed is reached and also to prevent the booster engine from starting at very low speeds. To this end interlocking means responsive to the speed of the main engine driving element and also to some part of the induction system of the main engine is provided to actuate automatically the starting means of the booster engine and to clutch said booster engine to the propelling means.

Additionally means is provided to prevent said interlocking means from being operative below a predetermined minimum speed.

Nine counts are involved. Of these, count 1 is illustrative. It reads:

1. In combination, a vehicle chassis having a main engine and propelling means, a secondary booster engine normally at rest, means for starting said booster engine from rest, a clutch for coupling said booster engine to said propelling means, and interlocking means responsive to speed of a main-engine-driven element and also to some part of the induction system of said main engine for automatically actuating said starting means to start the booster engine from rest and clutching said booster engine to said propelling means whereby said booster engine assists said main engine in driving the vehicle.

With respect to the question of originality, the brief for Beall states:

The question before this court is whether Ormsby derived his knowledge of the invention from the information which Wilcox received from Beall and which Wilcox's partner Haynes, and also Wilcox himself, gave to the engineers of the Clark Company, including Ormsby, long before any date alleged by Ormsby as the date of his conception.

It is contended by Beall, in substance, that Ormsby derived knowledge of Beall's invention from certain sketches made by Beall and from certain letters of a Mr. George C. Arvedson. The history of this phase of the case is stated in the following taken from the decision of the Board:

With respect to the issue of priority herein, there appears to have been a certain amount of transference of ideas between the parties here involved. It appears that Wilcox, the senior party, conceived the idea of providing a booster engine to assist the main engine during periods of distress. He disclosed his ideas in this respect to one Elliott who from Wilcox's disclosure drew the sketch of Ormsby Exhibit 1, likewise Wilcox Exhibit 2. This sketch was shown to Ormsby and he readily admits having seen it and describes as his understanding of Wilcox's conception that it was Wilcox's idea to operate the booster engine in conjunction with the main engine by automatic means that would allow its power to augment the power for the main engine when this power was required and at proper vehicle speeds * * *. It also appears that Wilcox interested one Haynes in his idea and Haynes, who was treasurer of the Automobile Manufacturer's Association, transmitted this knowledge to Reeves, vice president of the Association, asking if it would be possible for the Association to make a patentability search thereon. Reeves transmitted this information to Arvedson, manager of the patent department of the Association, who in turn gave the information to Beall, also employed by the Association, to make the search.

A rough sketch of the device was also sent to the Association together with a letter discussing it, which is alleged to be Wilcox Exhibit 16 herein. The exact nature of the sketch transmitted is not clearly established but it appears that it was either a sketch like Ormsby Exhibit 1 or Wilcox Exhibit 17. At least it appears that it was one of this general nature, and disclosed no more than was shown in such exhibits.

After Beall had received the sketch and discussion of the idea he made a search thereon and likewise became interested in the idea himself and to that end developed a system as shown in Beall Exhibit 9 which he disclosed to Arvedson on July 27, 1938. Likewise, through Arvedson a sketch, said to be like Beall's Exhibit 36 only having more detail thereon, together with a written description was transmitted to Haynes and through him to Wilcox and the attorney who prepared the Wilcox application herein. At the same time Beall also conceived the idea of using a clutch both as starter and clutch-coupling means for the booster engine and drawings similar to those exemplified in Beall Exhibits 13 and 14 were likewise transmitted to Arvedson to Haynes and in turn to Wilcox and the attorney who prepared the Wilcox application.

The foregoing is from that part of the Board's decision dealing with the controversy between Wilcox and the other parties, and, as we understand the Board's decision it was to the effect that the counts here involved were derived by Wilcox from Beall. At any rate, the Board held that "as between Beall and Wilcox, Beall is the original inventor and Wilcox has failed to establish conception in himself," but as between Beall and Ormsby the Board said:

Beall also contends that between himself and the party Ormsby he is likewise the original inventor for the reason that the sketches and descriptions above discussed were transmitted by Haynes to the Clark Equipment Company, Ormsby's assignee, and therefore were seen by Ormsby together with other of the Clark engineers and hence indicate derivation by the party Ormsby.

Ormsby flatly contradicts this contention. Ormsby readily admits that he saw the Wilcox sketch, Ormsby Exhibit 1. He, however, categorically states * * * that he never met Beall or Arvedson and that no one ever placed in his hands any other sketch aside from Ormsby Exhibit 1. He states that he knew that other drawings existed and were in the hands of Schirmer the Clark patent attorney and that they were even offered to him. He states, however, that he refused to look at them because he was working with the Bendix people in the development of this control and wished to be able to say that he had never seen any drawings that influenced his mind on these controls.

It seems to us that the testimony on behalf of the party Beall with respect to Ormsby merely indicates a possibility that Ormsby may have seen the sketches that constitute Beall's work on this subject. We are of the opinion, however, that the mere possibility of derivation is insufficient to establish as a fact that there was indeed such derivation.

Considering the devices as suggested by Beall and Ormsby there are, of course, similarities as there would naturally have to be to involve the parties in an interference. There are, however, likewise prominent differences. As we understand the Beall record it was one of Beall's main ideas that his system should be such that no separate starter for the auxiliary engine would be used but rather this engine would be started through a particular type of friction clutch by the main engine. No such feature is shown in Ormsby's conception. On the contrary, he uses a separate starter working through the various interlocked controls of the system. Likewise, it appears that in Beall's system up until such time as he had seen certain of Ormsby's drawings, he operated the speed governor control from the speed of the main engine and not the speed of a propeller shaft as in Ormsby. These differences to our mind constitute strong circumstances indicating independent work by the party Ormsby. We believe, therefore, that as far as the record herein presented is concerned, the party Beall has failed to establish derivation by Ormsby. Under such circumstances, the issue is so far as it affects these two parties is one of straight priority.

The briefs for the respective parties analyze the invention with a minuteness of detail which we deem it unnecessary to repeat.

The original brief for Beall alleged, in substance, that the gist of the invention lies in what the brief designated as a three-switch control system, embracing (1) a high speed switch operated by a governor driven from the main engine, (2) a vacuum switch operated by vacuum, or lack of pressure, and (3) a low speed switch also operated by a governor driven from the main engine. In a subsequently filed supplemental brief, we find the assertion that the invention was in the combination of Beall's three control switches with the main and booster engines.

The original brief for Beall gave the following explanation of the operation of the system:

These three switches are so related that when they are all closed the booster is started and cut-in and when a switch, such as the high speed switch or low speed switch, is opened, the booster engine is stopped, i. e., cut out.

Thus, when the truck slows down when climbing a hill to less than 20 miles per hour, the high speed switch closes. The vacuum switch also closes because the driver in trying to maintain his speed opens the throttle to wide open position and the low speed switch is also closed. The booster is therefore started and cut in.

When the speed of the truck rises to 35 miles per hour the high speed switch opens and the booster is cut out.

When the speed of the truck drops below 10 miles per hour, the low speed switch opens and cuts out the booster, although both the high speed switch and the vacuum switch may be closed. When the speed of the truck rises to 15 miles per hour the low speed switch closes, and, if *both* the other two switches (the vacuum switch as well as the then-already-closed high speed switch) are also closed, the booster is again cut in. [Italics quoted.]

On behalf of Ormsby it is insisted that the invention as defined in the counts is not confined to "Beall's three control switches"; that no one of the counts calls for or requires "Beall's three control switches," and that the Ormsby system does not employ "Beall's three control switches."

Beall concedes that the specific switches of the respective parties are different but insists that the invention lay in the combination of switches and booster engine and this we think must be true. The specifications of both applications refer to switches and although the term is not used in the counts they are broad in scope and no question as to the right of either party to make them has been raised.

[1] The question of originality is one of fact, and the burden rested upon Beall to establish derivation by Ormsby by a preponderance of evidence.

The record in the case is an elaborate one which has required much time for study and analysis. We have examined the evidence pertinent to the question with great care in the light of the briefs and arguments of counsel as well as in the light of the Board's thorough analysis of it.

[2] Counsel for Beall lay great stress upon the fact that the Clark Company, Ormsby's assignee, had in its possession, during at least a part of the time while Ormsby was working on the invention, certain letters and sketches, transmitted to it through Wilcox and Haynes, which are alleged to have been a disclosure of Beall's conception and point to the fact that, at the beginning of taking testimony on behalf of Beall, a demand was made upon Ormsby's attorney to produce certain letters and sketches, which demand was not complied with. It is urged that those circumstances strongly indicate that Ormsby did have knowledge of Beall's conception and used it in his work. We here quote Ormsby's testimony relative to this matter verbatim:

Q. 44. Did you have anything available at the time other than the sketch Ormsby Exhibit 1 to work from?
A. That was all.
* * * * * * *
Q. 346. Did you ever receive any further drawing from Wilcox or anyone else other than Bendix regarding the automatic control system on the booster engine?
A. I have not.
Q. 347. Did either Wilcox or Haynes ever place in your hands any other drawings than the sketch Ormsby Exhibit 1?
A. They did not.
Q. 348. Did anyone else ever place in your hands any other sketch?
A. They did not.
Q. 349. Did you ever meet Mr. Beall, Mr. Frank H. Beall prior to today?
A. I have not.
Q. 350. Did you ever meet George C. Arvedson?
A. I have never met Mr. Arvedson.
Q. 351. Did you know of the existence of any other drawings relating to the automatic control of the booster engine?
A. I did.
Q. 352. Who had those drawings?
A. Mr. Schirmer.
Q. 353. Did he ever offer them to you?
A. He did.
Q. 354. What did you do?
A. I refused to look at them as I was working with the Bendix people in the development of this control and I wished to be always able to say that I had never seen any other drawings that would influence my mind other than the design of these controls.
* * * * * * *
Q. 360. Did either Mr. Haynes or Mr. Wilson ever discuss with you any other control than shown in Ormsby Exhibit 1?
A. They have not.

Counsel for Beall allege that the foregoing testimony is "equivocal, to say the least."

We do not so regard it, and it may be pointed out that there was no cross-examination of Ormsby on this point. The matter of the refusal of the demand made upon Ormsby's counsel for the production of sketches and papers does not seem to have been discussed by the Board and it is not referred to in the reasons of appeal to us. Upon the record here presented we would not be justified in holding that counsel was not within his rights in declining to produce them, nor do we think the refusal to do so should be regarded as discrediting Ormsby's positive testimony.

Another contention made on behalf of Beall is that Ormsby disclaimed the Beall invention. This contention is argued at length in Beall's brief. It seems to be based largely upon a letter written by Ormsby's attorney to Arvedson (whose relation to the case is described in the Board's decision, quoted supra) relative to the Wilcox application in which Beall does not appear to have been mentioned. We have carefully examined the record relative to this matter and think the contention is without merit. It could serve no useful purpose to elaborate upon it.

[3] It is obvious that determination of the question of originality turns, in the final analysis, almost wholly upon the testimony of Ormsby and we may not properly reverse the decision of the Board unless we are prepared to hold that his testimony is unworthy of belief. We can find no justification for so holding. It is elemental, of course, that this court will not reverse the findings of fact made by the Board of Interference Examiners unless convinced that such findings are manifestly wrong. We are not so convinced in this case.

The second question on the merits of the case relates to Beall's diligence. He claimed, and the Board awarded him, conception the latter part of July, 1938, which was prior to the dates awarded Ormsby—September and October, 1938. Ormsby does not contest the conception date awarded Beall but alleges, and the Board held, that Beall failed to establish diligence during the critical period.

In his preliminary statement Beall did not allege reduction to practice by himself but, upon the theory that Ormsby had derived the invention from him, claimed the benefit of the reduction to practice by the Clark Company "in the first three months of 1939." This theory not having been sustained, Beall must rely upon his filing date of July 29, 1939, for constructive reduction to practice.

In his preliminary statement Ormsby claimed actual reduction to practice about February 1, 1939, and also recited constructive reduction to practice by the filing of his application on February 17, 1939. It is not clear from the Board's decision whether it awarded Ormsby any particular date for actual reduction to practice but this is immaterial

since his filing date was prior to that of Beall. It was incumbent upon Beall, therefore, to establish diligence from at least just prior to February 17, 1939, up to his own filing date of July 29, 1939.

We quote the following from the decision of the Board:

All that appears to have been done by Beall subsequent to his conception in July, 1938, was to make various sketches and suggestions for a short period in October, 1938, after various Ormsby drawings were transmitted to him and to again make various suggestions in February, 1939, after having seen a draft of the Wilcox application. He states that from the period of October to December, 1938, he thought the attorney for the Clark Company was going to write an application and he expected to hear from him at any time. * * * His activities between December, 1938, and July, 1939, appears to consist merely of a large amount of correspondence. * * * It does not appear to us that during this period of October, 1938, to July, 1939, Beall did anything towards reducing his invention to practice or in filing his application, nor do we believe that this inactivity may be excused by his expectations that an application would be filed in his behalf by the Clark Company.

The record amply supports the Board's finding as to what Beall himself did during the critical period. This is not disputed before us by counsel for Beall. Obviously, his personal activities were insufficient to establish diligence.

[4] Counsel for Beall, however, urge that his delay in filing an application was because he was led by Haynes and the attorney for the Clark Company who prepared the Ormsby application, to believe that an application would be prepared for him (Beall) "to sign and execute."

The specific statement in the Beall brief on this point reads:

The reason why Beall did not file his application earlier than his opponent is that he was led to believe by Haynes, and Schirmer of the Clark Company, in October, 1938, that they would have an application drawn up for Beall to sign and execute, and later in February 1939 by the Clark Company alone, through its patent attorney Schirmer, that it would prepare an application for Beall to sign and execute.

Beall's contention upon this phase of the controversy has been somewhat perplexing to us.

That Beall was the prior conceiver of the invention is conceded. That his application embodying it was not assigned to any one is emphasized in an early part of his brief. In our opinion, there has been no showing of a relationship between him and Ormsby or between him and Ormsby's assignee (the Clark Company) which would justify a holding that he had any right to expect the attorney for Ormsby or the attorney for the Clark Company to prepare an application for him "to sign and execute." He was "on his own" as an independent inventor, and, as stated, laid stress upon this fact in the early part of his brief. We find nothing in the record to justify the claim that he was induced or persuaded by the Clark Company to delay in filing his application.

We are not convinced of error on the part of the Board in holding, in effect, that his inactivity may not be excused by his expectations that an application would be filed in his behalf by the Clark Company.

[5] Certain questions of a procedural nature arose before us which require notice and (in two of them) rulings.

(a) The certified consolidated transcript of the record in this and the companion case was filed in the office of the Clerk of the Court April 20, 1944. A few days thereafter, before it had been transmitted to the printer, counsel for Ormsby filed a motion to dismiss the appeal on the ground that it had not been perfected within the time fixed by the rules of the Patent Office and this court governing appeals. We considered the motion at chambers and denied it without prejudice to the right of Ormsby to renew it at the final hearing. It was renewed at the final hearing and has been again considered. It is found to be without merit and is denied.

(2) No brief for Ormsby (appellee) was filed within the time specified by our rules for the filing of an appellee's brief, nor was any request for an extension of time presented to the court (see Rule XXVII, subparagraph 4), and before his brief had been received a motion was filed by counsel for Beall (appellant) that Ormsby be not permitted to file one. This matter was considered and, preliminary to the opening of the oral argument, we ruled that, it being a matter within the discretion of the court, the brief on behalf of Ormsby would be received and his counsel would be heard in oral argument. This action was taken not out of courtesy to counsel for Ormsby, but because the court felt it necessary to have the aid of brief and argument in studying the complicated records involved. In our ruling we criticized counsel for Ormsby for his default and expressed the hope that no such situation would again confront us. No further comment or ruling upon this matter is necessary.

(c) Counsel for Beall, during the oral argument before us, requested and was granted permission to file what may be designated as a supplemental brief and counsel for Ormsby was granted permission to file reply thereto by way of supplemental brief. Those were filed and a few days thereafter counsel for Beall filed a motion to strike certain passages from Ormsby's reply substantially upon the ground of irrelevancy. That motion provoked a reply by counsel for Ormsby. It seems to us that counsel for Beall, by presenting the motion to strike, sought to reargue questions which already had been fully argued and that it was done in that manner in order to avoid a request for permission to file another supplemental brief. We have disregarded all matters not relevant or pertinent to the issues and the motion of Beall's counsel to strike is denied.

The bickerings between counsel in this case, as illustrated by the above examples, have not been helpful to the court in passing upon the merits of the controversy. They have added to our difficulties and labors. We have, however, disregarded the inconsequential matters and reached the conclusion that upon the merits of the case the decision of the Board of Interference Examiners was not erroneous.

It is, therefore, affirmed.

Interference No. 79,688, Appeal No. 5032

Five counts are involved in this interference of which counts 1 and 4 are illustrative. They read:

1. In an automotive vehicle including a plurality of engines and propelling means, means for independently connecting said engines to said propelling means, control means for independently controlling the power output of one of said engines during normal operation thereof, means controlled by movement of said control means towards full power of position and to predetermined point in the range of movement of said control means to connect a second engine to the propelling means, and means arranged to prevent disconnection of said second engine during subsequent opposite movement of said control means towards low power position from said predetermined point.

4. In an automotive vehicle including a plurality of engines and a propelling means, means for independently controlling the power output of one of said engines during normal operation thereof, means operated by a decrease in speed to a predetermined point for disconnecting at said predetermined point a second of said engines from said propelling means, including magnetic means arranged to prevent said last means from connecting said second engine by subsequent increase of speed above said predetermined point.

The issues here presented are substantially the same as those present in interference No. 78,350.

Counts 3, 4, and 5 were held by the Board not to have been disclosed in the same Ormsby sketch which disclosed the counts in No. 78,350, but were held, we think correctly, to have been disclosed in other sketches "at least as early as October, 1938." In both cases it was found that Beall was the first to conceive but Ormsby was the first to reduce to practice; that Ormsby was not shown to have derived the invention from Beall and that Beall had not established diligence during the critical period.

As in the other case, we are not convinced of error in the Board's decision and the same is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

LUSTIG *v.* LEGAT

No. 5,155. Decided April 1, 1946

[154 F.(2d) 680; 69 USPQ 345]

1. INTERFERENCE—EVIDENCE—ORAL TESTIMONY.

"One may prove his priority of invention by oral testimony alone. It is true the courts scrutinize such testimony with care because of the possibility of fraud, mistake or bad memory bringing about improper results, but no court, to our knowledge, has ever held that one cannot establish priority by oral proof, and it very often occurs that priority is established in a most convincing way by oral proof, particularly where there is lack of inconsistency in the testimony of the witnesses and where there are related facts shown in the record, * * * corroborating such testimony."

2. SAME—REDUCTION TO PRACTICE—TESTS—SUFFICIENCY OF TESTS.

Upon consideration of tests made by Legat of a slider for a slide fastener intended to lock by a wedging action, *Held* that evidence that Lustig's assignee, when he received that party's slider, "was at first satisfied by examining * * * and pulling on it in the usual way to see if it would perform the wedging action is some evidence going to the question as to what is regarded by those most concerned as a proper test of the invention."

3. SAME—SAME—SAME—SAME.

"What Lustig did does not alone prove that Legat's test fully complied with the requirements of the law and if this were all the testimony upon which the Board based its opinion that proper tests were made by Legat we could not agree with it in its conclusion."

4. SAME—SAME—SAME—SAME.

A locking slider *Held* sufficiently tested by manually pulling on the ends of the stringers of the slide fastener.

5. SAME—SAME—SAME—SAME.

"As to whether or not tests other than under the actual conditions in which the article is used are sufficient depends upon the character of the article, which may be conveniently divided into three categories: (1) Those which are so simple in nature that no test is required to ascertain that they will fully and satisfactorily perform the functions intended. * * * (2) Those articles of such character that they may be affected by many different conditions and therefore their utility can only be tested by trying them out in the use for which they are designed. * * * (3) Articles of such character that a shop or laboratory test or other suitable test, made under conditions that are 'comparable' to those of the actual operating conditions of the device, is sufficient to show that satisfactory results will be obtained."

6. SAME—SAME—SAME—SAME.

"Tests as evidence of reduction to practice do not need to show the impossibility of failure but only the probability that the device tested would not fail."

7. SAME—PRIORITY.

Evidence reviewed and *Held* that Legat was the first to conceive the slider in issue and the first to reduce it to practice, and that priority properly was awarded to him.

APPEAL from the Patent Office. Affirmed.

Messrs. Rockwell & Bartholow (*Mr. Henry E. Rockwell, Mr. Edmond M. Bartholow*, and *Mr. Edwin R. Hutchinson* of counsel) for Lustig.

Messrs. Briesen & Schrenk (*Mr. Fred A. Klein* and *Mr. John J. Hart* of counsel) for Legat.

BLAND, *J.*:

The senior party, Egon Lustig, appeals here from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention of the single count involved in this interference to the junior party, Robert C. Legat.

The interference involves Patent No. 2,224,082, granted December 3, 1940, to Legat upon an application filed August 30, 1939, and an application of Lustig, filed November 18, 1941, for reissue of original Patent No. 2,238,653, granted April 15, 1941, upon an application filed December 6, 1938. The Lustig application and his original patent are assigned to A. J. Rosenstein, who is president of Myrtle Knitting Mills, Inc., which corporation manufactures sweaters and other types of knitted wear upon which slide fasteners are employed. Legat's assignee is the G. E. Prentice Mfg. Company; it manufactures slide fasteners or zippers of a type to which the invention here involved and hereinafter described relates.

The invention relates to "sliders" for slide fasteners commonly called "zippers." The inventive feature of the subject matter in issue resides in providing a metallic slider which can be produced cheaply but which has a locking action independent of any automatic or other added device connected therewith. The devices of the parties hereto, and that which is defined by the single count, have outer side walls so spaced and shaped that when a

lateral pull is exerted on the fastener above the slider there will be a jamming or wedging action which prevents movement of the slider in the opening direction.

Since it will not be necessary to consider the right of either party to make the count it will be unnecessary to here reproduce it. In view of our conclusion, the sole issue is one of priority and we find it unnecessary to consider the testimonial record of Lustig.

The count originated in the Legat application. Legat alleged in his preliminary statement the date of November 20, 1936, for the first disclosure of the invention to others and the same date for the completion of a full-size device embodying the invention; also reasonable diligence in adapting and perfecting the invention from that date.

The party Lustig, at the time of making the invention, resided in Czechoslovakia and made his invention abroad. He introduced it into the United States by sending a sample fastener embodying the invention to the Myrtle Knitting Mills, Inc., which sample, Lustig alleges, was received by the company's president, Mr. Rosenstein, on April 6, 1937, and was examined and understood. This date is accepted by the Patent Office and by us as being the earliest date to which Lustig would be entitled in establishing his priority in this appeal.

Both parties took testimony. The junior party, Legat, produced the testimony of himself and eight witnesses, and Lustig that of four witnesses.

The testimony of Legat's witnesses has been summed up and exhaustively discussed by the Board. We approve of its findings and no useful purpose would be served by repeating at great length what has in detail been stated by it.

The record discloses that in 1935 Czechoslovakia was the principal supplier of slide fasteners to this country but that early in 1936 Japanese competition became very severe owing to the cheapness of Japanese production; that as patents expired greater competition ensued and that hearings were had before the United States Tariff Commission with the view of having the tariff duty raised on fasteners. But during this procedure Legat's company, the G. E. Prentice Manufacturing Company, undertook to produce a fastener with a locking feature and which could be manufactured to compete with the imported articles. In order to do so it was necessary to get away from the more expensive automatic locking devices and others such as were then on the market which were unsatisfactory or were expensive to produce.

Legat, superintendent of the company, became interested with his associates in solving the problem and in 1935 produced a fastener called the Z slider which had a sharp point on each upper side of the slider that would catch an element of the fastener if the tapes or stringers were pulled sideways. The points did not wear well and complaints came in and the salesmen demanded improvements.

A sales meeting was held at New Britain, Conn., on December 28, 29, and 30, 1936, as evidenced by testimony and by a letter, Exhibit 11. Before the sales meeting Legat was able to produce a handmade improved sample, Exhibit 2, which he claims to be a complete reduction to practice of the invention. This slider was shown to the salesmen, which fact is testified to by several of the witnesses. It was also stated that its manner of performing was satisfactory and was thoroughly understood, that the exhibit was passed around to all the salesmen who tested it by pulling on the ends of the stringers and found that it locked properly. There is much harmonious testimony by several witnesses on this phase of the case.

Unquestionably unless the credibility of the witnesses is attacked (and the appellant expressly declines to do so) it must be believed that Exhibit 2 was produced, disclosed and tested in the late winter of 1936. The only objection found to the device was as to its size; owing to the various uses for slide fasteners it was important that the size be reduced. A smaller slider, Exhibit 3, was made soon after the meeting and it is established that it worked more satisfactorily than Exhibit 2.

It was then decided to make the dies immediately, and dimensions for them were laid out by Conlin, the mechanical superintendent. George Gilbert, a tool and die worker, testified at length as to his work in making the dies under Conlin's directions. Gilbert left the plant March 25, 1937, and was away for about a year. He stated that he did this work before he left and other witnesses testified to the same effect. That he left the company in March, 1937, is conclusively shown by the record.

The dies were adapted for separate operations wherein the operator had to move the blank from one step to the next. They were turned in and sold in a scrap drive after automatic dies had been made.

All these things occurred in the latter part of 1936 or the early part of 1937. Gilbert took the blanks which were offered as Exhibits 7 and 8 when he left the plant in 1937. Exhibits 4 and 5 are early sliders made from such die made parts, Exhibit 5 having an opening cut in the slider to show the internal parts.

Gilbert testified that sliders like Exhibit 4 had been made and were operating satisfactorily before he left, and Gordon Porter, who had charge of the New York sales office, stated that he saw what occurred in the inside of the slider in March, 1937, by being shown Exhibit 5. This exhibit reveals the jamming action called for by the count.

Conlin testified that specimens were tested before Gilbert left and that Exhibit 4 is a sample made in March, 1937, and kept by Legat. Other witnesses testified to the same effect.

Unquestionably Legat's record establishes that prior to April 6, 1937, the earliest date awarded Lustig, Legat had conceived and, with the help of his fellow employees, had produced and had disclosed to a number of persons the invention defined by the count, and had successfully demonstrated, by the tests aforesaid, that it would satisfactorily perform in accordance with the requirements of the count.

Other exhibits are in evidence but the salient facts heretofore related will suffice for our purposes without going into the details of the record as did the Board.

As is pointed out by the Board, the date of Gilbert's departure from the company is definitely established as March 25, 1937. The sales meeting at which the Legat device was disclosed and tested was held before he left, and since he left in the spring of 1937 and the sales meetings were always held at the end of every year there can be no doubt that the events testified to as happening at the sales meeting occurred in 1936 rather than later as is contended for by Lustig.

The burden of Lustig's argument here is to the effect that the Board improperly awarded priority to Legat upon a record most of which consisted of oral testimony and which was adduced a number of years after the events were alleged to have happened. Lustig complains of a lack of sufficient documentary evidence, particularly records kept by corporations such as that of Legat's assignee relating to work shop drawings, time cards, etc.

[1] It is too well-settled in patent law to require extended discussion or citation of authority in support thereof that one may prove his priority of invention by oral testimony alone. It is true the courts scrutinize such testimony with care because of the possibility of fraud, mistake or bad memory bringing about improper results, but no court, to our knowledge, has ever held that one cannot establish priority by oral proof, and it very often occurs that priority is established in a most convincing way by oral proof, particularly where there is lack of inconsistency in the testimony of the witnesses and where there are related facts shown in the record, as are shown in the instant one, corroborating such testimony. Moreover, Legat's instant record contains considerable documentary evidence which supports and strengthens and gives convincing character to the testimony of Legat and his witnesses.

[2] [3] There is but one important question of law involved in this appeal and that relates to reduction to practice. Lustig urges that since he is entitled to April 6, 1937, as his date for reduction to practice it was incumbent upon Legat to show that prior to that date he had successfully tested the device and proven its utility by applying it to a garment and giving it such tests as it would undergo while the garment was being worn, or that if Legat be awarded conception upon the record that he be required to show diligence during the critical period.

On the question of reduction to practice the Board said:

> Besides questioning the date, Lustig also contends that the Legat device was not reduced to practice because it was not tested in a garment. In this connection, it is interesting to examine the standard set up by Lustig for a reduction to practice in testing his own device. Lustig's original preliminary statement did not allege a reduction to practice, and was criticized for that reason (Paper 7). Lustig then filed his preliminary statement included on pages 4 and 5 of his record, which in this connection recites:
>
> "That he introduced the invention into the United States by shipping a sample fastener embodying his invention, to Myrtle Knitting Mills, Incorporated, Unionville, Connecticut, which he believes was received in the United States on or about April 1, 1937, and received by, and examined and understood by, A. J. Rosenstein of Myrtle Knitting Mills, Incorporated, on or about April 6, 1937."
>
> Unless such acts constitute a reduction to practice, Lustig has no allegation of a reduction to practice in his preliminary statement.

The Board quotes from the Lustig record and points out that by applying the Lustig test, that is, manually pulling the tapes holding the elements, Lustig's assignee found the slider very satisfactory and that it was not until later that he mentioned testing it on a sweater. The Board also quotes from the testimony of the assignee's brother, Nathan Rosenstein, giving the results of the tests of the fastener on a sweater, and then states:

> It seems evident * * * that the witness considers the manual test the more strenuous, and from the yieldable nature of the material in a sweater it is apparent that a more positive and effective pull can be made by hand. At the conclusion of his testimony, Lustig's assignee admits he was convinced by the manual test, as follows:
>
> "Q. When you got the first sample, as you say, on April 6 and you pulled apart the stringers, were you satisfied with its locking operation? A. Yes.
>
> Q. You had what in your mind was from a commercial point of view satisfactory to you? A. Yes."
>
> Tests and demonstrations of the character referred to in Legat's testimony are accordingly deemed sufficient to establish that the slider is satisfactory, and that it satisfactorily performs its locking function.

The Board concluded in substance that if the Lustig standard of testing sliders was regarded as sufficient by Lustig he is in a poor position to complain about the thorough tests disclosed in the Legat record. Appellant has assigned as error the action of the Board in applying the said Lustig test as a standard for reduction to practice by Legat.

Of course, what Lustig did does not alone prove that Legat's test fully complied with the requirements of the law and if this were all the testimony upon which the Board based its opinion that proper tests were made by Legat we could not agree with it in its conclusion. But we see no impropriety in referring to the Lustig test as bearing upon the question as to what is the approved practice in testing this kind of a device. The evidence that Rosenstein was at first satisfied by examining the imported slider and pulling on it in the usual way to see if it would perform the wedging action is some evidence going to the question as to what is regarded by those most concerned as a proper test of the invention.

In *Goodale* v. *Lund*, 25 C. C. P. A. (Patents) 1148, 96 F.(2d) 840, 37 USPQ 496, 496 O. G. 566, air valves for steam radiators were shop tested upon apparatus "designed to simulate conditions in a heating system." This was held to be sufficient for a reduction to practice and it was pointed out that that character of tests were those generally

resorted to by the Dole Valve Company, the assignee of one of the applicants, in its efforts to ascertain the commercial practicability of air valves for steam heating systems.

In *Bowers* v. *Valley et al.*, 32 C. C. P. A. (Patents) 1039, 149 F.(2d) 284, 65 USPQ 493, 8579 O. G. 521, a carbon removing piston ring for internal combustion engines was shop tested with a high pressure air compressor to ascertain the utility of the ring. The record showed that the conditions under which the pump operated on the ring, although there was no internal explosion, simulated closely a testing in an internal combustion engine. We declined to state whether or not the testing of the piston ring under these circumstances would be proper, since it was not necessary to the decision of the case in view of the fact that the party making the test did not show that it satisfactorily performed the functions defined in the counts involved. We there stated that, under the circumstances, rings to be used in internal combustion engines might be satisfactorily tested in the shop rather than in the engine itself. The evidence in that case relating to shop tests was that the tests were made by the Power Research Corporation which was engaged in the making and testing of piston rings and that their testing was done not in the engine itself but as heretofore stated.

[4][5] We think the tests made by Legat under the circumstances of this case were sufficient to comply with the requirements of the law. As to whether or not tests other than under the actual conditions in which the article is used are sufficient depends upon the character of the article, which may be conveniently divided into three categories: (1) Those which are so simple in nature that no test is required to ascertain that they will fully and satisfactorily perform the functions intended. See *Sachs* v. *Wadsworth*, 18 C. C. P. A. (Patents) 1284, 48 F.(2d) 928, 9 USPQ 252, 411 O. G. 545; *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147. (2) Those articles of such character that they may be affected by many different conditions and therefore their utility can only be tested by trying them out in the use for which they are designed. See *Payne* v. *Hurley*, 21 C. C. P. A. 1144, 71 F.(2d) 208, 21 USPQ 624, 448 O. G. 3. (3) Articles of such character that a shop or laboratory test or other suitable test, made under conditions that are "comparable" to those of the actual operating conditions of the device, is sufficient to show that satisfactory results will be obtained. See *Sperry* v. *Auflero et al.*, 30 C. C. P. A. (Patents) 908, 134 F.(2d) 174, 56 USPQ 573, 552 O. G. 563, and the numerous cases therein cited.

It seems apparent that where men skilled in the zipper art take hold of the two pieces of connected cloth to which the metal parts of the zipper are attached and pull crossways to see if the zipper will lock or come unlocked this is a more severe test than if it was actually sewed upon a garment and tested on the wearer.

[6] It must be remembered that Zipper devices are not new and that their general mechanism is thoroughly understood by those skilled in the art and generally understood by many others. The problem presented to Legat and his associates was whether or not when a cross pulling strain was brought upon the two cooperating elements between which the slider operated the device would wedge and lock and not slip. It is well-settled that tests as evidence of reduction to practice do not need to show the impossibility of failure but only the probability that the device tested would not fail. *Taylor* v. *Swingle*, 30 C. C. P. A. (Patents) 1219, 136 F.(2d) 914, 58 USPQ 468, 556 O. G. 716.

[7] Legat being the first to conceive and the first to reduce to practice was properly awarded priority of invention of the involved count by the Board of Interference Examiners, and its decision so doing is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE CRAWFORD

No. 5,087. Decided April 1, 1946

[154 F.(2d) 670; 69 USPQ 321]

PATENTABILITY—STORAGE TANK.

Claims to a hot water storage tank *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

BLAND, *J.*, and O'CONNELL, *J.*, specially concurring.

Mr. Elwin A. Andrus (*Mr. Merl E. Scoales* of counsel) for Crawford.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

The Board of Appeals of the United States Patent Office affirmed a decision of the Primary Examiner rejecting all of the claims of appellant's application in view of the prior art, citing the patent to Furrer, 1,810,825, June 16, 1931, and that of Uecker, 2,263,021, November 18, 1941, both of which are the property of appellant's assignee. From the decision of the Board this appeal was taken.

The claims read as follows:

8. A hot water storage tank or like container, comprising a generally cylindrical shell interiorly lined with a ceramic enamel coating, a convex head interiorly lined with a ceramic enamel coating and welded at its circumferential edge to one end of said shell, a protective ring disposed in the joint between the head and shell and having circumferentially and longitudinally extending areas on either side of said weld, pliable heat resistant gaskets provided between the circumferentially extending areas of the outer surfaces of the ring and the inner surfaces of the shell and head, lips on the ring to maintain the same between the head and shell, and a fusion butt weld securing the ring in the joint between the head and shell to tightly seal the joint and prevent circulation of fluid to the joint.

14. A hot water storage tank or like container, comprising a generally cylindrical shell with its ends closed and made up of a plurality of longitudinal sections with at least one girth weld, said sections being lined to protect the same from corrosion, and said girth weld being a butt joint between opposed circumferential edges of adjacent sections and having deposited fused welding metal joining said edges, and a protecting member bridging said joint on the inside and sealed against the lining on opposite sides of the joint, the central portion of said member being integrally fused in said welded seam to secure the member in place.

15. A hot water storage tank or like container, comprising a generally cylindrical shell with its ends closed and made up of a plurality of longitudinal sections with at least one girth weld, said sections being lined with ceramic enamel to protect the same from corrosion, and said girth weld being a butt joint between opposed circumferential edges of adjacent sections and having deposited fused welding metal joining said edges, and a protecting member bridging said joint on the inside and sealed against the ceramic enamel lining for a substantial distance on opposite sides of the joint, the central portion of said member being integrally fused in said welded seam to secure the member in place.

The claims were rejected on the Furrer patent in view of the Uecker patent. In his application appellant states that his device is a hot water tank with characteristics similar to those disclosed in the latter.

The reasons of appeal dispute the propriety of the decision below in rejecting the claims over the prior art.

The subject matter of the alleged invention may be readily understood from the claims. Claim 8 is the narrowest in that it defines a hot water tank "interiorly lined with a ceramic enamel coating" and provides for pliable heat resistant gaskets, while claim 14 omits the former of those limitations and claim 15 the latter.

The Furrer patent relates to a butt welded joint and a method of making it, particularly as applied to a joint between pipe sections. It appears that the sections brought together are belled for a short distance from either side of the groove which is formed by placing a "chill ring" inside the greater portion of the belled ends. Around the middle of the ring the wall is thickened into a kind of bead against which both ends of the sections are pressed. Thus a groove between the pipe ends is produced which is filled with fused metal welding the bead of the ring and the ends of the pipe together. The chill ring is tapered from the bead toward its ends for the purpose of permitting the belled ends of the pipes to be slid easily into position.

The patent to Uecker discloses a hot water tank with protective lining such as vitreous enamel insulating the interior against deterioration. It is formed in three sections, the top and bottom being outwardly extended to conform with a skirt-like outward extension of the shell proper. At the joint between the shell and other members which are welded together sheets of heat resistant material such as asbestos are placed.

The essence of the alleged invention resides in the joint between the shell and end portions of the device as defined by appellant.

Claim 8 was rejected for the reason that it was old in the art in view of the Uecker patent to line the interior of the tank with ceramic material and that to line the pipes disclosed in the Furrer patent with that material would not require invention if such lining were so desired. In the patent to Uecker the limitation of heat resistant material in the joint is disclosed. Therefore we are of opinion, as was held below, that it would not involve invention to insert the heat resistant material of the Uecker patent between the chill ring and inner surfaces of the pipe lengths of the Furrer device.

The broader claims 14 and 15 were rejected for the same reasons. Each of these claims describes a container with closed ends and a plurality of longitudinally lined sections welded together by at least one girth weld. It does not matter in a patentable sense whether or not the ends of the container be closed, for the reason that the formation of the joint is the thing with which appellant was concerned. The girth weld is clearly disclosed in the patent to Furrer, while the patent to Uecker shows its application to a container with closed ends, as well as a protective lining. We are of opinion that the tribunals of the Patent Office did not err in rejecting those claims.

Appellant in his brief contends that the Furrer patent is from a non-analogous art. The question whether the device of a reference is in a non-analogous art in our opinion has been properly discussed, as pointed out in the brief of the Solicitor, in the leading case of *Potts* v. *Creager*, 155 U. S. 597, 70 O. G. 404. It seems to us that here the application of the joint formation of the Furrer patent would be obvious to one skilled in the art and in view of the reasoning in that case we cannot agree with appellant's contention.

Other matters have been suggested in the brief of appellant which we see no reason to discuss as they are entirely without the issue.

The decision of the Board of Appeals is affirmed.

Affirmed.

BLAND, *J.*, (specially concurring):

I concur in the decision of the majority in affirming the action of the Board in its approval of the rejection of the appealed claims for the want of invention over the cited prior art.

The majority state, "Other matters have been suggested in the brief of appellant which we see no reason to discuss as they are entirely without the issue."

Appellant relies upon the decision of this court in *In re Shortell*, 31 C. C. P. A. (Patents) 1062, 142 F.(2d) 292, 61 USPQ 362, 565 O. G. 526, where we reversed the Patent Office upon the question of invention relating to a hack saw having teeth on both edges. We there held that it was not in the province of the court to establish new standards of invention since this would be judicial legislation rather than interpretation, and stated:

It follows, from the foregoing, that until Congress shall otherwise legislate, or the Supreme Court shall otherwise specifically hold, this court will continue to hold that if a process or thing constitutes patentable subject matter, is new and useful, and the process performed or thing produced would not be obvious to one skilled in the art, invention should be presumed and a patent may properly issue therefor.

Appellant states that the rejection of the claims involved in the instant appeal was made at a time of "considerable stress in the Patent Office following a number of decisions of other courts which

seemed to change the basis or standard of invention and prior to this court's pronouncement above." He then argues in effect that, under former standards of invention, with respect to his particular combination, for various reasons assigned, he should be allowed the claims. He states that "the presumption of invention is in appellant's favor."

It is my personal view, and I speak here only for myself, that one whose claims have been denied in the Patent Office solely on the question as to whether or not the production of the article involved the inventive faculty has, if he sees fit, a right to urge in substance that he is the victim of an alleged changed standard of invention applied by the Patent Office.

I do not agree that in the instant case what appellant did amounted to any more than the exercise of mechanical skill even when he is given the benefit of all reasonable doubts.

Since appellant has the right to raise the question here, I see no impropriety in answering his contentions with respect thereto.

Throughout more than a century of development of the patent law, fundamental principles upon which the determination of the existence of invention rests have been developed and, on the whole, there has been little complaint, until recently, of any change of standard of invention with respect to which we are here concerned. It may be that certain tribunals in the Patent Office have recently sensed and been influenced by a disposition on the part of certain courts to change the standard of invention which has prevailed for so many years. However, I see no such attitude reflected in the instant record.

The pendulum of thought on subjects like this is prone to swing far in both directions and it would not be a matter of great surprise, in view of other attacks made on the patent system which to me are somewhat alarming, to learn that some applicants have been denied patents in recent days by virtue of a change in the standard of invention. This, if true, in part is due, of course, to the well-recognized fact that the term "invention" has never been, and doubtlessly never will be, satisfactorily defined by Congress or the courts. Necessarily it becomes a matter of individual opinion.

Patents are only prima facie evidence of invention and, as has been true for more than one hundred years, the equity courts, generally speaking, may be trusted, upon more complete records, to correct any mistakes made by the Patent Office in granting patents.

While I personally would deplore as extremely regrettable any attempt to undermine the basic, well-settled legal principles applicable to this particular question, I see no merit in appellant's contention on the instant record.

Since writing the above I am authorized to state that O'CONNELL, *J.*, concurs in this concurring opinion.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,526,982, E. W. Hill, Stencil sheet, C. C. A., 2d Cir., Doc. —, *A. B. Dick Co.* v. *Marr Duplicator Co.* Decree affirmed June 26, 1946.

1,630,596, P. Banff, Antiseptic adhesive tape, filed July 8, 1946, D. C., N. D. Ill., E. Div., Doc. 46c1256, *P. Banff* v. *Johnson & Johnson.* Doc. 46c1257, *P. Banff* v. *Bauer & Black, Inc.* Doc. 46c1266, *P. Banff* v. *Parke Davis & Co.* Doc. 46c1267, *P. Banff* v. *Seamless Rubber Co.* Doc. 46c1268, *P. Banff* v. *Mine Safety Appliances Co.* Doc. 46c1269, *P. Banff* v. *The American White Cross Laboratories, Inc.*

1,732,567, A. J. Pereyra, Tortilla machine, D. C., S. D. Calif. (Los Angeles), Doc. 4936–PH, *A. J. Pereyra* v. *John C. Ford Mfg. Co. et al.* Dismissed May 6, 1946.

1,804,559, F. Hoke, Signal receiving and distributing system, filed July 3, 1946, D. C., S. D. N. Y., Doc. 36/661, *W. S. Farrell* v. *Solotone Corp. et al.*

1,821,582, W. E. Sackner, Packing cord, filed June 24, 1946, D. C., W. D. Mich. (Grand Rapids), Doc. 862, *Grand Rapids Fibre Cord Co.* v. *Northern Fibre Products Co. et al.*

1,879,003, G. A. Alles, Salts of 1-phenyl-2-aminopropane, D. C., S. D. N. Y., Doc. 19/59, *Smith, Kline & French Laboratories* v. *R. S. A. Corp. et al.* Order dismissing cause for lack of prosecution June 13, 1946.

1,967,221, Allen & Hartley, Printing plate and holding means therefor, D. C., S. D. N. Y., Doc. 26/50, *E. Cooper et al.* v. *Addressograph-Multigraph Corp.* Order dismissing cause for lack of prosecution June 13, 1946.

2,036,617, Bechtner & Hirschmann, Clay and process for preparing same, filed June 27, 1946, D. C., N. D. Ill., E. Div., Doc. 46c1216, *American Colloid Co.* v. *The Wyodak Chemical Co.*

2,036,757, J. W. Hume, Adjustable balancer for vehicle wheels, filed June 27, 1946, D. C., S. D. Ohio, W. Div., Doc. 1522, *H. C. Loney Co.* v. *The Ohio Weight Co.*

2,078,798, L. C. Hoefer, Fly casting fishing lure, filed Apr. 18, 1946, D. C. Minn. (Minneapolis), Doc. 1936, *L. C. Hoefer* v. *S. Johnson.*

2,095,535, M. G. Swenson, Artificial tooth, C. C. A., 8th Cir., Doc. 13219, *M. G. Swenson* v. *Henry P. Boos Dental Laboratories.* Judgment of district court affirmed July 8, 1946.

2,105,398, Barrett & Hirschhorn, Reenforced porcelain tooth crowns, filed July 9, 1946, D. C., S. D. N. Y., Doc. 36/700, *Nu-Dent Porcelain Studio, Inc.,* v. *Reinforced Crown Corp.*

2,111,169, T. B. Clark, Valve, filed Sept. 28, 1946, D. C., N. D. Ill., E. Div., Doc. 45c1628, *Automatic Pump & Softener Corp.* v. *Permutit Co.* Claims 1, 2, 4, 5, 8, 9, 10, and 12 held invalid June 5, 1946.

2,117,519, B. J. Snyder, Grille guard for automobiles, D. C., E. D. Pa., Doc. 10061, *B. L. Snyder* v. *Barton Supply Co.* Dismissed Jan. 1, 1946.

2,197,089, N. A Anderson, Method and apparatus for making boxes, C. C. A., 2d Cir., Doc. —, *R. M. Bergstein et al.* v. *Lowman Folding Box Corp. et al.* Judgment affirmed (notice July 12, 1946).

2,219,883, L. A. Amtsberg, Impact wrench, filed July 9, 1946, D. C., N. D. Ohio, E. Div., Doc. 24161, *Chicago Pneumatic Tool Co.* v. *The Aro Equipment Corp.*

2,257,072, D. L. Coombs, Colonic irrigator, filed May 29, 1946, D. C., N. D. Calif., S. Div., Doc. 26018–R, *D. L. Combs* v. *R. W. De Wells et al.* Same, D. C., N. D. Calif., N. Div., Doc. 5542, *D. L. Combs* v. *L. T. Kao.*

2,266,708, I. Jepson, Sadiron, filed July 8, 1946, D. C., N. D. Ill., E. Div., Doc. 46c1245, *General Mills, Inc.,* v. *Sunbeam Corp.*

2,302,630, A. M. Hess, Pleating of drapes, etc., filed July 9, 1946, D. C., S. D. N. Y., Doc. 36/696, *Clopay Corp.* v. *Consolidated Trimming Corp. et al.*

2,309,510, D. L. Jacobowitz, Extensible bracelet clasp, D. C., S. D. N. Y., Doc. 35/657, *Jacoby-Bender, Inc.,* v. *Finesse Wristlet Co.* Dismissed by plaintiff July 1, 1946.

2,324,526, M. R. Morgenthaler, Process for the manufacture of soluble dry extracts, D. C., S. D. N. Y., Doc. 24/510, *Inredeco, Inc.,* v. *Heyman Process Corp.* Consent judgment in favor plaintiff, sustaining patent and granting injunction (notice July 8, 1946).

2,341,892, G. W. Shreckhise, Apparatus for coating transfer fabrics, D. C., W. D. Va. (Harrisonburg), Doc. 183, *G. W. Shreckhise* v. *W. H. Ritchie et al.* Dismissed June 27, 1946.

2,350,619, C. F. Johnston, Piston expander and stabilizer, filed June 25, 1946, D. C., N. D. Calif., S. Div., Doc. 26143–G, *C. F. Johnston et al.* v. *G. A. Kreplin et al.*

2,370,270, Trittin & Orlando, Arrow head, D. C., S. D. Calif., C. Div., Doc. 5277–WM, *J. C. Trittin et al.* v. *R. C. King et al.* Consent decree holding patent valid and infringed July 11, 1946.

2,390,941, F. D. Jones, Method and compositions for killing weeds, filed June 21, 1946, D. C., E. D. Pa., Doc. 6073, *American Chemical Paint Co.* v. *F. Alper Industries, Inc., et al.*

Re. 20,033, F. W. Hudson, Soft-rubber plug and socket body, filed May 3, 1946, D. C., S. D. Calif. (Los Angeles), Doc. 5360–WM, *G. D. Hudson* v. *Electric Cords & Supply Co.* Same, D. C. N. J., Doc. 8248, *G. D. Hudson* v. *Allied Electric Products, Inc.* Consent judgment for injunction (notice July 9, 1946).

Re. 21,956, P. E. Hawkinson, Method of retreading tire casings, D. C., M. D. Ga. (Macon), Doc. 383, *Paul E. Hawkinson Co.* v. *Den-Nap Electric Mold Co.* Dismissed July 9, 1946.

Des. 118,929, T. Friedman, Mounting for a reading glass or similar article, filed July 2, 1946, D. C., S. D. N. Y., Doc. 36/633, *American Strainer Corp.* v. *Pyro Plastic Industries, Ltd., et al.* Same, filed July 12, 1946, D. C. N. J., Doc. 8575, *American Strainer Corp.* v. *Pyro Plastics Industries, Ltd., et al.*

Des. 138,237, F. L. Weireter, Toy, D. C. Minn. (Minneapolis), Doc. 1380, *Fibro Container Corp.* v. *The Dayton Co.* Judgment on consent June 25, 1946.

Des. 140,918, M. Stuart, Toy, D. C., S. D. N. Y., Doc. 34/478, *Mistletoe Plastic Co.* v. *Fairyland Plastic Products Co.* Consent decree in favor of plaintiff, sustaining patent, adjudging infringement and granting injunction July 10, 1946.

T. M. 315,465, The Goodman Chemical Co., Astringents, bleach creams, etc., filed July 8, 1946, D. C., N. D. Ill., E. Div., Doc 46c1255, *Babs Creations* v. *Marshall Field & Co. et al.*

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 19, 1946.*

Horace Kay, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Robert Barr, 438 Diversey Parkway, Chicago, Ill., to effect the cancellation of trade-mark registration of Horace Kay, 134 W. 90th Street, New York, N. Y., No. 327,275, dated August 20, 1935, and the notice of such proceeding sent by registered mail to the said Kay at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Kay, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 30, 1946.*

Anthony F. McDonnell, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Brockway Glass Company, Inc., of Brockway, Pa., to effect the cancellation of trade-mark registration of Anthony F. McDonnell, 1341 Jefferson Avenue, Scranton, Pa., No. 77,405, dated April 5, 1910 (renewed), and the Patent Office having been advised that the said McDonnell is deceased, notice is hereby given that unless the heirs of McDonnell, his assigns or any person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., August 1, 1946.*

Napoleon O. Basford, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Hygienic Products Company, 220 Seventh Street, Southeast, Canton, Ohio, to effect the cancellation of trade-mark registration of Napoleon O. Basford, 317 Maiden Lane, Akron, Ohio, No. 259,376, dated July 30, 1929, and the Patent Office having been advised that the said Basford is deceased, notice is hereby given that unless the heirs of Basford, his assigns, legal representatives, or other person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 1,990,397. CLASP. Patented Feb. 5, 1935. Group 39—99. Reg. No. 3,324.

Pat. 2,142,775. CLASP. Patented Jan. 3, 1939. Group 39—99. Reg. No. 3,325.

The two patents listed above relate to a clasp for holding the shoulder straps of under-garments to a dress to prevent straps from slipping off shoulders. A stationary perforated plate is fastened to dress and hingedly connected to a clamping plate which swings to release or grip straps. (Owner) Emma C. H. Barnette, 412 Dewey Ave., Rochelle, Ill.

Des. 144,411. DESIGN FOR A JEWELRY STAND. Patented Apr. 9, 1946. (Owner) Henry Leonard Oblein, 13 Greyson Road, Riverdale, Scottsville Post Office, N. Y. Groups 32—39; 39—72. Reg. No. 3,326.

Pat. 2,396,548. TOOTHBRUSH. Patented Mar. 12, 1946. A tapered loop portion shaped to accommodate finger tip is secured to the back of a tooth brush replacing usual handle. Permits application of pressure where necessary or desirable. (Owner) Dane R. Allen, % Henry F. Todd, Stahlman Bldg., Nashville, Tenn. Group 39—22. Reg. No. 3,327.

Pat. 2,320,152. METAL TRIMMING FOR OVERALLS. Patented May 25, 1943. A single piece of wire is formed into a button loop and takeup slide for the shoulder straps of bib overalls. In use, the loop is snapped around the button shank and prevented from detachment. Shoulder strap is shortened by pulling free end in an aligned direction or lengthened by pulling the strap backward through the slide at right angles to the slide. The sides of the device are squeezed for detachment. (Owner) Fred E. Mefford, P. O. Box 6898, Pittsburgh 12, Pa., Groups 23—29; 33—49. Reg. No. 3,328.

Pat. 2,084,757. BAG WITH SPRING CLOSURE. Patented June 22, 1937. Closure may be incorporated in the opening of bags, pouches, and other devices for carrying money, smoker's articles, keys, or cosmetics. A pair of slightly bowed, flat steel strips are hingedly secured together at their ends. Bag is opened by simply grasping pull tabs provided on article and drawing strips apart. (Owner) Isidor Alter. Address correspondence to Louis Barnett, 358 Fifth Ave., New York 1, N. Y. Groups 23—84; 31—71—72; 33—49. Reg. No. 3,329.

Pat. 2,339.187. TOWEL OR CLOTH HOLDER. Patented Jan. 11, 1944. Towel or dish cloth is firmly held by pushing corner through a slit of a soft rubber member which comprises the face of cylindrical holder. The device may be secured to a wall at any suitable location. Towel is removed by simply pulling from holder. (Owner) Herbert Pain. Address correspondence to Eric Pick, Room 700, 330 West 42nd St., New York, N. Y. Groups 33—73; 35—59. Reg. No. 3,330.

Pat. 2,125,354. CONTAINER. Patented Aug. 2, 1938. Circular container for keys, cosmetics, or coins has an automatic closure means consisting of a pair of flat covered tensioned spring wires, the associated ends of which form a hook and socket junction. By merely compressing the extreme ends, the container is opened. The container may be made of leather, fabric, or any flexible material. (Owner) Louis Stern, 159 West 25th St., New York 1, N. Y. Groups 23—84; 31—72; 33—49. Reg. No. 3,331.

Pat. 2,154,632. SEAL. Patented Apr. 18, 1939. Prevents the escape of gases or fluids from the joint between a rotating furnace and an adjacent stationary part. A fin extending around rotating part fits into a channel carried by the associated stationary part. A gasket incompletely fills the channel so that external fluid pressure may be applied to balance internal pressure. Dust and other solid particles may be removed from the seal by a tube which conveys falling particles into a liquid bath, thus preventing wear. (Owner) Louis Stern, 159 West 25th St., New York 1, N. Y. Groups 32—93; 33—12. Reg. No. 3,332.

Des. 114,090. DESIGN FOR A NAME FINDER. Patented Apr. 4, 1939. Enclosed index pad has sliding pointer for selection of letters from an alphabetical column on cover. For telephone numbers, etc. (Owner) Louis Stern, 159 West 25th St., New York 1, N. Y. Group 26—92. Reg. No. 3,333.

Pat. 2,399,073. LONGWALL MINING MACHINE. Patented Apr. 23, 1946. Group 35—33. Reg. No. 3,334.

Pat. 2,399,074. BREAKING DOWN MECHANISM. Patented Apr. 23, 1946. Group 35—33. Reg. No. 3,335.

Pat. 2,399,075. UNDERCUTTING AND CONVEYING ELEMENT. Patented Apr. 23, 1946. Group 35—33. Reg. No. 3,336.

Pat. 2,399,713. LONGWALL MINING MACHINE. Patented May 7, 1946. Group 35—33. Reg. No. 3,337.

The four patents listed above relate to machines which are particularly adapted to coal mining. The device described in Patent 2,399,074 is used for the retreat mining of coal pillars in relatively flat coal beds, the machine combining cutting, conveying, and loading operations simultaneously. Patent 2,399,074 provides a breaking down unit which includes a vertical battery of projectable and retractible compressed air operated pick devices having breaking down wedges and a vertical gang of projectable and retractible drills arranged to operate in advance of the pick devices so as to provide holes which may be readily entered by the wedges to obtain lumps of maximum size. Patent 2,399,075 provides an undercutting and conveying element which includes a plate, the edges of which are vertically flexible (utilizing fluid pressure) so that attached bits may properly follow the irregularities of the mine floor. Patent 2,399,713 is an antifriction means to support part of the load on the shaking conveyer and undercutter, reducing drag on the mine floor. The conveyer and undercutter move relative to associated feed, thus eliminating usual horizontal oscillation of the

feed screws. (Owner) Charles E. Tibbals, 2331 Jefferson St., Bluefield, W. Va.

Pat. 2,287,218. ANTIFOULING COMPOSITION. Patented June 23, 1942. Group 28—11. Reg. No. 3,338.

Pat. 2,389,229. ANTIFOULING COMPOSITION. Patented Nov. 20, 1945. Group 28—11. Reg. No. 3,339.

Pat. 2,390,408. ANTIFOULING COMPOSITION. Patented Dec. 4, 1945. Group 28—11. Reg. No. 3,340.

Pat. 2,398,069. ANTIFOULING COMPOSITION. Patented Apr. 9, 1946. Group 28—11. Reg. No. 3,341.

The four patents listed above relate to non-corroding compositions which upon application to surfaces of structures submerged in sea water (ship hulls, pier supports, flying boat hulls and pontoons) prevent fouling by barnacles, seaweed, and other marine organisms. Patent 2,287,218 recites a mixture of toxic agents, such as thymol and copper linoleate and a phenolic varnish, dispersed in suitable organic solvents. In Patent 2,389,229 the combination consists of an ester gum varnish and phenyl mercuric acetate in a mixed solvent. The toxic agent used in Patent 2,390,408 may be a mercury derivative of pyridine. Patent 2,398,069 is a continuation-in-part of Patent 2,287,218, the toxic condensation product being a mixture of a saturated aldehyde such as formaldehyde and an unsaturated aldehyde such as cinnamic aldehyde. These compositions may be employed as clear lacquers or they may be pigmented with aluminum powder or the usual dyes. Modifications shown in each patent. (Owner) Stoner-Mudge, Inc., 200 Westhall St., Pittsburgh 12, Pa.

Pat. 2,214,310. TOY RAILWAY SWITCH. Patented Sept. 10, 1940. A three way switch which utilizes a single shiftable tongue so that a toy train approaching the switch can be directed onto any one of three tracks. The switch may be adapted to electrical, mechanical, or hand operated toy trains. (Owner) Robert Z. Schreffler, 412 South Centre St., Philipsburg, Pa. Group 34—91. Reg. No. 3,342.

Pat. 2,170,315. UNIVERSAL JOINT. Patented Aug. 22, 1939. Joint may be assembled or disassembled without longitudinal or angular displacement of the shafts being connected. Consists of a pivot block held between two pairs of yoke arms, the block and arms being bored to receive slidable trunnions held from displacement by a slide cam, the reduced end of which projects from a bore in the block and is held by a single cotter pin. The joint may be rapidly disassembled by removal of the cotter pin, the yokes being slid laterally onto and off the blocks. (Owner) Robert L. Wonderly. Address correspondence to Frease & Bishop, Harter Bank Bldg., Canton 2, Ohio. Groups 35—66; 38—31. Reg. No. 3,343.

Pat. 2,048,585. COMBINED HYDRAULIC CLUTCH AND TRANSMISSION MECHANISM. Patented July 21, 1936. The mechanical clutch and gear train of a motor vehicle, etc., are eliminated by the substitution of a manually controlled unitary structure which functions as a combined clutch and transmission. (Owner) Alfred G. Wittstock, 17 Highland Terrace, Irvington, N. J. Groups 35—66; 38—31. Reg. No. 3,344.

Pat. 2,375,098. ROTARY FRICTION ASSEMBLY. Patented May 1, 1945. Relates to a rotatable mounting for spools and reels. The mounting is carried by a ball bearing unit having a split race-ring, the opposing annular members of which are adjusted to effect pressure on the interposed ball bearings forcing them to bind against the race-rings and retard rotation of the strand dispensing spools thus insuring uniform tension as the strands are drawn from the spools for the fabrication of woven fabric, cable, etc. (Owner) The S. S. White Dental Manufacturing Co., 211 South 12th St., Philadelphia 5, Pa. Group 35—52. Reg. No. 3,345.

Pat. 2,399,461. AERIAL AIRFIELD. Patented Apr. 30, 1946. Movable to any desired location. The boat-like structure is divided into a number of compartments which house gas-filled balloons to achieve buoyancy. It may be used to transport cargo, personnel, and equipment and is provided with a number of runways on its upper deck from which planes or other craft may take off or land. Elevator means are also provided whereby planes may be carried to different levels of the interior for storage or to the runway. (Owner) J. D. Cleveland Brown, 2011 Foot Hill Blvd., Oakland, Calif. Group 37—31. Reg. No. 3,346.

Pat. 1,768,733. PORTABLE LAMP. Patented July 1, 1930. Has a long, thin strip of resilient material secured to the socket which may be inserted under a desk pad or between the pages of a book to support the lamp in position when reading. A modification has an ash tray base. (Owner) Alan L. Becket, Barton, Vt. Groups 34—81; 40. Reg. No. 3,347.

Pat. 1,815,043. ATTACHMENT PLUG. Patented July 21, 1931. Consists of an internally threaded insulating cap and screw threaded plug. The plug is slotted on opposite sides so that terminals may be recessed and held by binding screws. The arrangement allows plug to be easily assembled, conceals screws and wire ends, and eliminates necessity of an insulating disc. (Owner) Alan L. Becket, Barton, Vt. Groups 36—21; 40. Reg. No. 3,348.

Pat. 1,864,010. ELECTRIC IRON. Patented June 21, 1932. An electromagnetic iron in which heat is generated in the base by rapid magnetization in alternate directions. The iron also has a temperature regulating means. (Owner) Alan L. Becket, Barton, Vt. Group 35—81. Reg. No. 3,349.

Pat. 1,864,516. GOLF TEE AND METHOD OF MAKING THE SAME. Patented June 28, 1932. Tees are connected by a very thin separable fin and sold as a single strip or circular group. The tees may be carried without piercing pockets of clothing or bags and are easily detached, one or two at a time as needed. A mould, suitable for making the tees from any mouldable material, is shown. Modifications. (Owner) Alan L. Becket, Barton, Vt. Groups 39—49—81; 40. Reg. No. 3,350.

Pat. 1,912,818. MILK BOTTLE CHEST. Patented June 6, 1933. Container which may enclose several bottles of milk has a tightly fitting hinged cover secured by a spring latch. During freezing weather an electric light bulb provided on the inside of the chest is operated, and acts to keep temperature above freezing point by radiating heat within the chest. (Owner) Alan L. Becket, Barton, Vt. Groups 25—51; 36—21; 40. Reg. No. 3,351.

Pat. 1,991,045. ELECTRIC PLUG. Patented Feb. 12, 1935. Insulation does not have to be stripped from wires (which are held by passing them through holes provided in the upper end of the contact terminal) to provide electric contact. When cap is screwed on an externally threaded disc, the sharpened edge of the contact blade is forced through the insulation of the wire to make contact. No bare wires are exposed, and no tools are needed to assemble the plug. (Owner) Alan L. Becket, Barton, Vt. Group 36—21. Reg. No. 3,352.

Pat. 2,028,268. ELECTRICAL CONTACT RECEPTACLE. Patented Jan. 21, 1936. Has beveled semi-circular openings to facilitate insertion of the parallel flat blades of the plug cap which will enter receptacle though not inserted in the exact position. (Owner) Alan L. Becket, Barton, Vt. Groups 36—21; 40. Reg. No. 3,353.

Pat. 2,053,060. ATTACHMENT PLUG. Patented Sept. 1, 1936. The device of this patent is similar to that of Patent 1,991,045 in that contact is effected by piercing or crushing the insulation of the wire held in the plug. The plug differs in that it is in one piece, the wire being pushed through center hole and spread apart before being pulled through provided slots. Terminals having toothed ends are driven through cross slots, piercing the insulation of the wire within and acting to hold it in place. The plug is shaped to fit the fingers to facilitate handling. (Owner) Alan L. Becket, Barton, Vt. Groups 36—21; 40. Reg. No. 3,354.

Pat. 2,131,880. RACKET STRINGING DEVICE. Patented Oct. 4, 1938. Intended to make the splicing of old and new strings less difficult when replacing worn or broken strings in a tennis racquet. It consists of an L-shaped arm which is held against the outside surface of the frame and a string clamping jaw. The position of the clamping jaw may be adjusted on the arm by means of a thumb screw. Modifications are shown. (Owner) Alan L. Becket, Barton, Vt. Group 39—49. Reg. No. 3,355.

Pat. 2,314,682. COVER. Patented Mar. 23, 1943. Relates to manhole or drain covers which are provided with shock absorbing cushions for the reduction of noise and wear. The cover is provided with an annular open recess which receives a gasket held in place by screws, rivets, or expandable plugs which fit into openings. The gasket may be made of rubber, cork, etc. (Owner) Alan L. Becket, Barton, Vt. Groups 25—92; 30—51. Reg. No. 3,356.

Pat. 2,372,653. ELECTRICAL TERMINAL. Patented Apr. 3, 1945. This patent is similar to Patents 1,991,045 and 2,053,060 in that contact is made between the terminal and the insulated wire by piercing the insulation. This is accomplished by placing a piercing washer, having contacting prongs, on the usual binding screws used to clamp the wires in place. (Owner) Alan L. Becket, Barton, Vt. Groups 36—21; 40. Reg. No. 3,357.

Pat. 2,334,290. TOY. Patented Nov. 16, 1943. Head and body of doll are connected by a resilient unit under control of a rod which extends downwardly and projects outwardly through body so that the head may be actuated from a remote point. The rod may be used to cause the head to nod or move from side to side. (Owner) Frank H. Richter, 2864 River Road, Cincinnati, Ohio. Group 39—42. Reg. No. 3,358.

Pat. 2,400,417. WIRE CARRIER FOR WORKMEN. Patented May 14, 1946. Harness has waist and shoulder straps, which when adjusted on the wearer support a spool of wire. The wire is guided over a shoulder strap and may be conveniently grasped by workman, who may for example, be engaged in tying reinforcing rods in position prior to the pouring of cement. Danger to workman is reduced by use of the harness. (Owner) John P. Hickey, 85 East Gay St., Columbus 15, Ohio. Group 23—29—95. Reg. No. 3,359.

Pat. 2,318,356. SPRING LOCKING SCREW BOLT. Patented May 4, 1943. Bolt has flat bottomed slot which extends vertically from the threaded end to a point adjacent to the head. Based within the groove is a spring steel key, the projecting end of which is bent at an angle of 90 degrees so that it extends across the threaded end of the bolt. The movement of the key is controlled by a release pin, inserted at the head into the groove to flex the key so that a castellated or cap nut may be threaded onto the bolt. When the release pin is removed, the resilient key springs into one of the slots of the nut and is locked in place. (Owner) Oscar Ball, 31 Crescent St., Hewlett, Long Island, N. Y. Group 33—12. Reg. No. 3,360.

Pat. 2,026,930. FASTENING DEVICE. Patented Jan. 7, 1936. A double lock safety pin which incorporates a hooked bar so that the shoulder straps of under garments may be held in place and prevented from slipping off the shoulders. The pin is made from a single piece of wire. The double lock consists of a main hook which holds end of pin on either side. (Owner) W. H. Bispham, 625 Wilshire Drive, Los Angeles 14, Calif. Group 33—49. Reg. No. 3,361.

Correction

Pat. 2,212,314. WATER RESISTANT AMYLACEOUS COMPOSITIONS. Patented Aug. 20, 1940. Prepared by the reaction between an amylaceous substance, formaldehyde and an acid, the composition forms a clear waterproof and water resistant film which dries without the application of heat. The composition is insoluble in most organic solvents such as acetone and chloroform and may be used to impregnate the surface of wood, paper, fabric, and other materials. Examples given in patent. (Owner) Stein, Hall & Co., Inc., 285 Madison Ave., New York, N. Y. Group 28—31. Reg. No. 3,281.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 20, 1946

[VOL. 589. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 487,534. THE VISKING CORPORATION, Chicago, Ill. Filed Aug. 24, 1945.

VISKING PRODUCT

The word "Product" is disclaimed apart from the mark.

FOR MONOFILAMENTS MADE FROM POLYMERIC VINYLIDENE CHLORIDE AND COPOLYMERS THEREOF DESIGNED FOR A VARIETY OF NON-ASSOCIATED USES.

Claims use since Feb. 12, 1945.

Ser. No. 494,757. MICHAEL-LEONARD CO., Sioux City, Iowa. Filed Jan. 14, 1946.

TRI-STATE

FOR CORNSEED.

Claims use since Mar. 1, 1942.

CLASS 2

RECEPTACLES

Ser. No. 488,369. REVOC, INC., doing business as Cover Girl, New York, N. Y. Filed Sept. 12, 1945.



The representation of the girl forming a feature of the mark is fanciful.

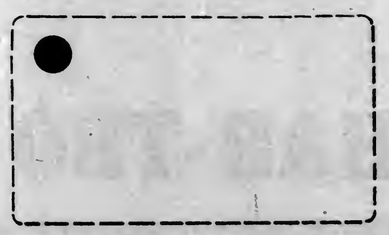
FOR WASTE BASKETS, BOXES MADE OF PAPER, CARDBOARD, LEATHER OR PLASTIC MATERIAL FOR THE PACKAGING OF MERCHANDISE AND PLASTIC BOXES—NAMELY, UTILITY BOXES, CANDY BOXES, CARD BOXES, HANDKERCHIEF BOXES, NOVELTY BOXES, POWDER BOXES, GLOVE BOXES, STATIONERY BOXES, SEWING BOXES, ALL OF SAID BOXES BEING SOLD IN THE TRADE EMPTY, PLASTIC TOOL CASES AND PLASTIC TOOL BOXES.

Claims use since Aug. 23, 1945.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 491,039. MEM COMPANY, New York, N. Y. Filed Nov. 13, 1945.



The dotted line is a representation of the goods bearing the mark and is disclaimed as a part of the mark. The

trade-mark consists of a red dot impressed, affixed, or otherwise placed on the goods, or on labels, or on the cartons in which the goods are shipped.
FOR SOAPS.
Claims use since 1924.

Ser. No. 492,942. MULTIFAX ENTERPRISES, LIMITED, Toronto, Ontario, Canada. Filed Dec. 8, 1945.

DIPFOAM

FOR DETERGENT IN POWDERED FORM.
Claims use since April 1945.

Ser. No. 493,604. KLEENZADE PRODUCTS, INCORPORATED, Beloit, Wis. Filed Dec. 20, 1945.

"CBS" CLEANER

The word "Cleaner" is disclaimed apart from the mark.
FOR PREPARATION FOR CLEANING BY HAND IN DAIRIES AND INDUSTRIAL ESTABLISHMENTS, PARTICULARLY, A MIXTURE OF POLYPHOSPHATES, SILICATES, WETTING AGENTS AND SODA ASH IN GRANULAR, POWDERED, OR FLAKE FORM.
Claims use since July 1, 1944.

Ser. No. 494,075. THE JOHNSON-MARCH CORPORATION, New York, N. Y. Filed Dec. 29, 1945.

SEABRITE

FOR CLEANER FOR METAL.
Claims use since Dec. 1, 1945.

Ser. No. 495,467. GOLDEN ARROW TOILETRIES, New York, N. Y. Filed Jan. 26, 1946.

KING OF CLUBS

FOR FACE SOAPS, BATH SOAPS, AND SHAVING CREAMS.
Claims use since June 1, 1945.

Ser. No. 495,534. BLUE RIBBON PRODUCTS COMPANY, San Francisco, Calif. Filed Jan. 28, 1946.

HAR-THO

FOR GRANULATED SOAP AND WASHING AND CLEANING COMPOUND.
Claims use since Sept. 11, 1945.

Ser. No. 495,728. DONNA LO LABORATORIES, INC., St. Louis, Mo. Filed Jan. 31, 1946.

Wildwood

FOR BATH SOAP AND TOILET SOAP.
Claims use since September 1944.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 479,904. ESTHER SMITH, Cleveland, Ohio. Filed Feb. 16, 1945.



The portrait constituting the mark is that of Esther Smith, the applicant.
FOR HAIR OILS, HAIR GROWTH STIMULATORS, AND HAIR LOTIONS.
Claims use since May 1, 1944.

Ser. No. 482,414. CHATHAM PHARMACEUTICALS, INC., Newark, N. J. Filed Apr. 21, 1945.

ULTRACAIN

FOR OINTMENTS FOR USE IN THE TREATMENT AND ALLEVIATION OF BURNS AND SKIN DISEASES.
Claims use since December 1936.

Ser. No. 488,439. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Sept. 14, 1945.

LACET

FOR SYNTHETIC RESINS FOR USE IN SHRINKAGE CONTROL AND FINISHING OF FABRICS AND TEXTILES.
Claims use since Aug. 18, 1945.

Ser. No. 491,598. SWITZER BROTHERS, Cleveland, Ohio. Filed Nov. 14, 1945.

Visa-Balm

FOR EMBALMING FLUIDS.
Claims use since Nov. 5, 1945.

Ser. No. 491,972. GRAHAM CHEMICAL COMPANY, Jamaica, N. Y. Filed Nov. 21, 1945.

SoluCones

The word "Cones" is disclaimed apart from the mark.
FOR DENTAL MEDICAMENT USED TO FILL CAVITIES OF EXTRACTED TEETH.
Claims use since Oct. 25, 1945.

Ser. No. 492,751. VALMOR PRODUCTS CO., doing business as Madam Jones Co., Chicago, Ill. Filed Dec. 5, 1945.

BLACK-O-LENE

No claim is made to the work "Black" apart from the mark.
FOR HAIR PREPARATION USED TO IMPART A GLOSSY SHEEN TO THE HAIR.
Claims use since July 16, 1944.

Ser. No. 492,773. JOHNSON & CO., Cornelia, Ga. Filed Dec. 6, 1945.



The portrait is that of Vergil C. Kerby, deceased, applicant's predecessor in business.
FOR POULTRY TONIC AND CONDITIONER, AN OINTMENT OR SALVE FOR THE TREATMENT OF ECZEMA, ROUGH SKIN, SORES, BRUISES, BURNS, AND SKIN ERUPTIONS, A COUGH SYRUP, AND A BLOOD AND LIVER TONIC.
Claims use since Feb. 1, 1912.

Ser. No. 492,594. GEORGE O. DARDEN, doing business as Darnold, Chicago, Ill. Filed Dec. 20, 1945.

Korduroy

Applicant disclaims the words "Created for Him" apart from the mark.
FOR TOILET PREPARATIONS—NAMELY LIQUID DEODORANT, AFTER SHAVE LOTION, COLOGNE, AFTER SHAVE TALCUM, CREAM DEODORANT, LIQUID BRILLIANTINE, SOLID BRILLIANTINE, AND HAIR SHAMPOO.
Claims use since Nov. 20, 1945.

Ser. No. 496,392. MONT-O-MIN SALES CORPORATION, Oakland, Calif., and also trading as Mont-O-Min Sales Comp. Filed Feb. 11, 1946.

Vitamins MONT-O-MIN Minerals

No claim is made to the words "Vitamins" and "Minerals" apart from the mark.
FOR VITAMIN AND MINERAL CAPSULES AND TABLETS.
Claims use since Mar. 8, 1944.

Ser. No. 496,589. VITAMINS & PHARMACEUTICALS, INC., Dover, Del. Filed Feb. 14, 1946.

NEOPAN

FOR CALCIUM ASCORBATE ACETYLSALICYLATE WITH VITAMIN K, FOR USE AS AN ANALGESIC AND ANTI-PYRETIC.
Claims use since Dec. 19, 1945.

Ser. No. 496,624. DR. HESS & CLARK, INC., Ashland, Ohio. Filed Feb. 15, 1946.

SKP

FOR PREPARATION FOR THE TREATMENT OF INTERNAL DISORDERS OF STOCK.
Claims use since Jan. 7, 1946.

Ser. No. 497,984. FLORENCE K. CHAMBERS, doing business as Ha-Grn-Co. Mfg. Co., Buffalo, N. Y. Filed Mar. 9, 1946.

HA-GRN-CO

FOR CHEMICAL COMPOSITION FOR PRESERVING HAY, GRAIN, BEANS, AND SO FORTH.
Claims use since Feb. 1, 1946.

Ser. No. 498,330. VAPOR ENGINEERING CORPORATION, Los Angeles, Calif. Filed Mar. 15, 1946.

TRIVEC

FOR DEGREASING SOLVENT USED IN VAPOR CLEANING OF METAL PARTS AND THE LIKE.
Claims use since Dec. 29, 1945.

Ser. No. 498,355. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Mar. 16, 1946.

TWIN-8

FOR CHEMICAL PRODUCTS FOR USE IN COMBATING INSECTS AND FUNGI.
Claims use since Feb. 11, 1946.

Ser. No. 498,574. H. P. ANDREWS PAPER COMPANY, New York, N. Y. Filed Mar. 20, 1946.

PRUSSAID

FOR CHEMICALS FOR USE IN THE PREPARATION OF BLUEPRINT FORMULAE FOR TREATING OF BLUEPRINT PAPER, AS WELL AS FOR USE AS PHOTOGRAPHIC DEVELOPERS.
Claims use since Mar. 8, 1946.

Ser. No. 498,581. ANTOINE CHIRIS COMPANY, INC., New York, N. Y. Filed Mar. 20, 1946.

FOR ESSENTIAL OIL COMPOUNDS; POMADES; TINCTURES OF AMBERGRIS, BENZOIN, CASTOREUM, CIVET, MUSK, ORRIS; AROMATIC AND FIXATIVE PRODUCTS EXTRACTED FROM ANIMAL MATTERS, BALSAMS, GUMS, ROOTS; SYNTHETIC ORGANIC PRODUCTS USED IN PERFUMERY; AMBERGRIS; BENZOIN GUM; CASTOREUM PODS; CIVET; MUSK (PODS, GRAINED); ORRIS ROOT; PERU BALSAM; STYRAX LIQUID GUM; TOLU BALSAM.
Claims use since Mar. 1, 1911.

Ser. No. 499,207. COSMOS INTERNATIONAL CORPORATION, New York, N. Y. Filed Mar. 29, 1946.

369 cosmos

FOR AQUEOUS SOLUTIONS OF HEMATOPORPHYRIN; CONGO RED; CAPSULES OF NITROGLYCERINE; PREPARATIONS FOR THE TREATMENT OF MENTAL DEPRESSION; PREPARATIONS FOR THE TREATMENT OF SKIN DISEASES; PREPARATIONS FOR THE TREATMENT OF STOMACH DISORDERS; TABLETS FOR SALT-RESTRICTED DIETARY TREATMENTS; SALT FOR THE TREATMENT OF VEGETATIVE DERMATOSES, NUTRITIONAL OBESITY, AND CARDIAC, RENAL, AND CIRCULATORY DISORDERS; TONICS; AND ROBORANTS.
Claims use since December 1943.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 491,610. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

FOR SMOKING PIPES.
Claims use since Oct. 29, 1943.

Ser. No. 491,613. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,614. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT ATOMIC

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,615. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT CARV-ET

The word "Carv" is disclaimed apart from the mark.
FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,616. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT FAVORITE

The word "Favorite" is disclaimed apart from the mark.
FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,617. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT SAN-A-TAIR

The word "San-A-Tair" is disclaimed apart from the mark.
FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,618. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

ART-CRAFT SUPERFINE

The word "Superfine" is disclaimed apart from the mark.
FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

Ser. No. 491,619. ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945.

Glamour Girl

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

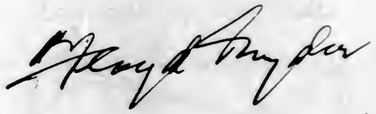
Ser. No. 492,076. MUKAMAL COMPANY, New York, N. Y. Filed Nov. 23, 1945.

"TWO ROBINS"



The Arabic characters signify "Two Robins".
FOR CIGARETTE PAPERS CUT TO SIZE.
Claims use since Apr. 5, 1944.

Ser. No. 494,370. FLOYD SNYDER, Cincinnati, Ohio. Filed Jan. 5, 1946.



The mark is a facsimile of the signature of the applicant.
FOR SMOKERS' PIPES.
Claims use since October 1945.

CLASS 10

FERTILIZERS

Ser. No. 486,617. GROWERS SERVICE AND SUPPLY COMPANY, Yakima, Wash. Filed Aug. 2, 1945.



The lining on the drawing indicates the background of the mark red and the letters yellow.
FOR FERTILIZERS.
Claims use since Mar. 1, 1945.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 497,995. DECORITE, INC., Atlanta, Ga. Filed Mar. 11, 1946.

DECORITE

FOR MOULDINGS MADE OF METALS, WOOD, AND PLASTIC, FOR USE ON COUNTERS, TABLES, SINKS, AND FLOORS.
Claims use since Jan. 18, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 495,566. CHARLES A. BECK, doing business as Bugle Petroleum Products, Pomona, Calif. Filed Jan. 29, 1946.



FOR GASOLINE, AND LUBRICATING OILS AND GREASES.
Claims use since 1932.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 485,412. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y. Filed July 8, 1945.

KEL-VI-TOL

FOR LINSEED OIL.
Claims use since April 1945.

Ser. No. 490,465. SPIEGEL, INC., Chicago, Ill. Filed Oct. 24, 1945.

Housemaid

FOR WAX FOR LINOLEUM, WOOD FLOORS, RUBBER TILE, ASPHALT TILE, COMPOSITION, CEMENT, TERRAZZO, MARBLE, VARNISHED, SHELLACKED, AND PAINTED FLOORS, AND KINDRED USES.
Claims use since January 1945.

Ser. No. 492,328. STEPHEN B. KING & SON CO., Milwaukee, Wis. Filed Nov. 28, 1945.

PATEN-WALL

The word "Wall" is disclaimed apart from the mark.
FOR PAINT IN DRY, PASTE, AND READY-MIXED FORM.
Claims use since Aug. 21, 1945.

Ser. No. 494,131. SELBY, BATTERSBY & CO., Philadelphia, Pa. Filed Dec. 29, 1945.

FLOOR CRAFTERS

No claim is made to the word "Floor" apart from the mark.
FOR FLOOR WAX.
Claims use since December 1932.

Ser. No. 495,498. PLASTIKPLI LABORATORIES, INC., doing business as Lastikpli Laboratories, Chicago, Ill. Filed Jan. 26, 1946.

LASTIKPLI

FOR READY-MIXED PAINT, VARNISH, PAINT ENAMEL AND LACQUER.
Claims use since Jan. 14, 1946.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 487,994. CONSOLIDATED CIGAR CORPORATION, New York, N. Y. Filed Sept. 5, 1945.

HENRY GEORGE

The mark consists of the words "Henry George", the name of a deceased celebrity, who was an economist, writer, and an exponent of the single tax plan.
FOR CIGARS.
Claims use since 1898.

Ser. No. 495,427. H. E. SHAW COMPANY, Worcester, Mass. Filed Jan. 16, 1946.

BIG BOOB

FOR CIGARS, CIGARETTES, AND SMOKING TOBACCO.
Claims use since July 30, 1945.

CLASS 19

VEHICLES

Ser. No. 489,814. LAISTER-KAUFFMANN AIRCRAFT CORPORATION, St. Louis, Mo. Filed Oct. 13, 1945.

"TRAIL-AIR"

FOR GLIDER PLANES.
Claims use since Aug. 14, 1945.

Ser. No. 497,152. WHEELER SHIPBUILDING CORPORATION, Whitestone, Long Island, N. Y. Filed Feb. 23, 1946.

SUNLOUNGE

FOR MOTOR BOATS, POWER BOATS, AND THE LIKE.
Claims use since Apr. 1, 1945.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 498,921. OAKES & COMPANY, Chicago, Ill. Filed Mar. 25, 1946.

Style Craft

FOR INLAID LINOLEUM RUGS AND INLAID LINOLEUM, COMPOSITION FLOOR COVERINGS, OILED CLOTH WALL COVERING, AND OILED CLOTH FOR TABLES AND SHELVES.
Claims use since Feb. 1, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 488,968. MECTRON CORPORATION, Lawrence, Mass. Filed Sept. 25, 1945.

MECTRON

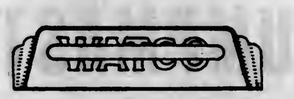
FOR ELECTRONIC DEVICES AND EQUIPMENT—NAMELY, RADIO RECEIVING SETS INCLUDING TABLE AND OTHER MODELS AND PARTS THEREOF, AND AMPLIFIERS AND SOUND REPRODUCERS AND PARTS THEREOF.
Claims use since June 1, 1945.

Ser. No. 488,969. MECTRON CORPORATION, Lawrence, Mass. Filed Sept. 25, 1945.

MECTRON CORPORATION

The word "Corporation" is disclaimed apart from the mark.
FOR ELECTRONIC DEVICES AND EQUIPMENT—NAMELY, RADIO RECEIVING SETS INCLUDING TABLE AND OTHER MODELS AND PARTS THEREOF, AND AMPLIFIERS AND SOUND REPRODUCERS AND PARTS THEREOF.
Claims use since June 14, 1945.

Ser. No. 490,866. WATCO ENGINEERING, INC., Cleveland, Ohio. Filed Oct. 31, 1945.



FOR FLUORESCENT LIGHTING FIXTURES.
Claims use since 1941.

Ser. No. 497,544. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Filed Mar. 2, 1946.

ELECTRIFLEX

FOR EXTENSIBLE ELECTRICAL CORDS.
Claims use since Dec. 1, 1945.

Ser. No. 497,680. SCHAUER MACHINE COMPANY, Cincinnati, Ohio. Filed Mar. 5, 1946.

ELECTROX

FOR COPPER OXIDE TYPE DRY RECTIFIERS AND SELENIUM TYPE DRY RECTIFIERS.
Claims use since October 1932 on copper oxide type dry rectifiers; and since April 1941 on selenium type dry rectifiers.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 493,824. RAPID-TITAN MFG. CO., Grand Rapids, Mich. Filed Dec. 22, 1945.

RAPID-TITAN

The word "Rapid" is disclaimed apart from the mark.
FOR C-TYPE CLAMPS.
Claims use since Jan. 10, 1945.

Ser. No. 497,498. ROTOTILLER INC., Troy, N. Y. Filed Mar. 1, 1946.

ROTO-ETTE

FOR SOIL TILLING AND CULTIVATING MACHINES.
Claims use since Feb. 19, 1946.

Ser. No. 497,853. FEDERAL AUTO PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 8, 1946.

PUMPMASTER

FOR HAND PUMP FOR BICYCLES AND AUTOMOBILE TIRES.
Claims use since Feb. 10, 1945.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 482,223. LESLIE W. STINNE, doing business as Stindro Manufacturing Company, Dallas, Tex. Filed Apr. 16, 1945.

Stindro

FOR CLOTHESPINS.
Claims use since Nov. 16, 1944.

Ser. No. 487,653. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Aug. 27, 1945.

Wizard

FOR POWER DRIVEN MECHANICAL WASHERS AND IRONERS.
Claims use since July 2, 1937.

CLASS 25

LOCKS AND SAFES

Ser. No. 493,276. NATIONAL LOCK COMPANY, Rockford, Ill. Filed Dec. 14, 1945.



FOR LATCHES AND CATCHES.
Claims use since September 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 495,119. WILLIAM M. WILSON'S SONS, INC., Lansdale, Pa. Filed Jan. 19, 1946.

SPEEDBOY

FOR GASOLINE SELF-MEASURING PUMPS.
Claims use since Dec. 7, 1945.

Ser. No. 495,120. WILLIAM M. WILSON'S SONS, INC., Lansdale, Pa. Filed Jan. 19, 1946.

SPEEDAC

FOR GASOLINE SELF-MEASURING PUMPS.
Claims use since Dec. 7, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 467,974. INVICTA-SEELAND, INC., New York, N. Y. Filed Mar. 4, 1944.

QUADRAMATIC

FOR WATCHES AND CLOCKS.
Claims use since January 1931.

Ser. No. 480,098. LOUIS AISENSTEIN & BROS., New York, N. Y., assignor to Louis Aisenstein & Bros. Inc., New York, N. Y., a corporation of New York. Filed Feb. 22, 1945.

HALLMARK

Applicant is the owner of Reg. No. 187,807 (renewed).
FOR WATCH AND CLOCK MOVEMENTS.
Claims use since May 1, 1915.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 494,915. LOUIS G. MEYERS, doing business as Alpha-Craft Company, New York, N. Y. Filed Jan. 17, 1946.

Lazy Louie

FOR COSTUME JEWELRY.
Claims use since Oct. 1, 1945.

Ser. No. 498,427. MARATHON COMPANY, Attleboro, Mass. Filed Mar. 18, 1946.

Teen-Kraft

FOR JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES.
Claims use since Mar. 6, 1946.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 480,597. LEE RUBBER & TIRE CORPORATION, Youngstown, Ohio. Filed Mar. 7, 1945.

TARGET

FOR GASOLINE HOSE, DISTILLATE HOSE, TANK WAGON HOSE, GREASE HOSE, HYDRAULIC BRAKE HOSE, AIR HOSE, WATER HOSE, STEAM HOSE, SUCTION HOSE, OIL HOSE AND MACHINERY PACKING.
Claims use since June 15, 1918.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 493,958. SAMUEL HERSHMAN, doing business as Hershman Musical Instrument Co., New York, N. Y. Filed Dec. 28, 1945.

HERCO

FOR MUSICAL INSTRUMENTS—NAMELY, BUGLES, CORNETS, TRUMPETS, TROMBONES, SOUSAPHONES, AND FRENCH HORNS, STRINGS FOR MUSICAL INSTRUMENTS, AND ACCESSORIES—NAMELY, BRIDGES, PEGS, TAIL PIECES AND BAND INSTRUMENT MOUTHPIECES.
Claims use since 1940.

Ser. No. 495,431. AERO NEEDLE COMPANY, Chicago, Ill. Filed Jan. 26, 1946.

RED DEVIL

FOR PHONOGRAPH NEEDLES.
Claims use since Nov. 1, 1945.

CLASS 37

PAPER AND STATIONERY

Ser. No. 478,691. THE SEROLITE COMPANY, New York, N. Y. Filed Jan. 16, 1945.

Serolite

FOR PEN DESK SETS AND MEMORANDUM PAD HOLDERS.
Claims use since Sept. 1, 1939.

CLASS 39

CLOTHING

Ser. No. 491,113. NEW YORK KNITTING MILLS, New York, N. Y. Filed Nov. 5, 1945.

CAMICHIA

FOR MEN'S, WOMEN'S, BOYS', AND GIRLS' KNITTED OUTERWEAR—NAMELY, SWEATERS.
Claims use since Sept. 15, 1945.

Ser. No. 491,883. HY PERLMAN & CO., New York, N. Y. Filed Nov. 19, 1945.

"Eliminator"

FOR LADIES' UNDERWEAR.
Claims use since May 3, 1945.

Ser. No. 497,498. ROTOTILLER INC., Troy, N. Y. Filed Mar. 1, 1946.

ROTO-ETTE

FOR SOIL TILLING AND CULTIVATING MACHINES.
Claims use since Feb. 19, 1946.

Ser. No. 497,853. FEDERAL AUTO PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 8, 1946.

PUMPMASTER

FOR HAND PUMP FOR BICYCLES AND AUTOMOBILE TIRES.
Claims use since Feb. 10, 1945.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 482,223. LESLIE W. STINNE, doing business as Stindro Manufacturing Company, Dallas, Tex. Filed Apr. 16, 1945.

Stindro

FOR CLOTHESPINS.
Claims use since Nov. 16, 1944.

Ser. No. 487,653. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Aug. 27, 1945.

Wizard

FOR POWER DRIVEN MECHANICAL WASHERS AND IRONERS.
Claims use since July 2, 1937.

CLASS 25

LOCKS AND SAFES

Ser. No. 493,276. NATIONAL LOCK COMPANY, Rockford, Ill. Filed Dec. 14, 1945.



FOR LATCHES AND CATCHES.
Claims use since September 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 495,119. WILLIAM M. WILSON'S SONS, INC., Lansdale, Pa. Filed Jan. 19, 1946.

SPEEDBOY

FOR GASOLINE SELF-MEASURING PUMPS.
Claims use since Dec. 7, 1945.

Ser. No. 495,120. WILLIAM M. WILSON'S SONS, INC., Lansdale, Pa. Filed Jan. 19, 1946.

SPEEDAC

FOR GASOLINE SELF-MEASURING PUMPS.
Claims use since Dec. 7, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 467,974. INVICTA-SEELAND, INC., New York, N. Y. Filed Mar. 4, 1944.

QUADRAMATIC

FOR WATCHES AND CLOCKS.
Claims use since January 1931.

Ser. No. 480,098. LOUIS AISENSTEIN & BROS., New York, N. Y., assignor to Louis Aisenstein & Bros. Inc., New York, N. Y., a corporation of New York. Filed Feb. 22, 1945.

HALLMARK

Applicant is the owner of Reg. No. 187,807 (renewed).
FOR WATCH AND CLOCK MOVEMENTS.
Claims use since May 1, 1915.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 494,915. LOUIS G. MEYERS, doing business as Alpha-Craft Company, New York, N. Y. Filed Jan. 17, 1946.

Lazy Louie

FOR COSTUME JEWELRY.
Claims use since Oct. 1, 1945.

Ser. No. 498,427. MARATHON COMPANY, Attleboro, Mass. Filed Mar. 18, 1946.

Teen-Kraft

FOR JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES.
Claims use since Mar. 6, 1946.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 480,597. LEE RUBBER & TIRE CORPORATION, Youngstown, Ohio. Filed Mar. 7, 1945.

TARGET

FOR GASOLINE HOSE, DISTILLATE HOSE, TANK WAGON HOSE, GREASE HOSE, HYDRAULIC BRAKE HOSE, AIR HOSE, WATER HOSE, STEAM HOSE, SUCTION HOSE, OIL HOSE AND MACHINERY PACKING.
Claims use since June 15, 1918.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 493,958. SAMUEL HERSHMAN, doing business as Hershman Musical Instrument Co., New York, N. Y. Filed Dec. 28, 1945.

HERCO

FOR MUSICAL INSTRUMENTS—NAMELY, BUGLES, CORNETS, TRUMPETS, TROMBONES, SOUSAPHONES, AND FRENCH HORNS, STRINGS FOR MUSICAL INSTRUMENTS, AND ACCESSORIES—NAMELY, BRIDGES, PEGS, TAIL PIECES AND BAND INSTRUMENT MOUTHPIECES.
Claims use since 1940.

Ser. No. 495,431. AERO NEEDLE COMPANY, Chicago, Ill. Filed Jan. 26, 1946.

RED DEVIL

FOR PHONOGRAPH NEEDLES.
Claims use since Nov. 1, 1945.

CLASS 37

PAPER AND STATIONERY

Ser. No. 478,691. THE SEROLITE COMPANY, New York, N. Y. Filed Jan. 16, 1945.

Serolite

FOR PEN DESK SETS AND MEMORANDUM PAD HOLDERS.
Claims use since Sept. 1, 1939.

CLASS 39

CLOTHING

Ser. No. 491,113. NEW YORK KNITTING MILLS, New York, N. Y. Filed Nov. 5, 1945.

CAMICHIA

FOR MEN'S, WOMEN'S, BOYS', AND GIRLS' KNITTED OUTERWEAR—NAMELY, SWEATERS.
Claims use since Sept. 15, 1945.

Ser. No. 491,883. HY PERLMAN & CO., New York, N. Y. Filed Nov. 19, 1945.

"Eliminator"

FOR LADIES' UNDERWEAR.
Claims use since May 3, 1945.

Ser. No. 491,901. UTICA KNITTING COMPANY, Utica, N. Y. Filed Nov. 19, 1945.

Gold-Seal

FOR MEN'S, WOMEN'S, BOYS', CHILDREN'S, AND INFANTS' UNDERWEAR—NAMELY, SHIRTS, DRAWERS AND UNION SUITS; SLEEPING GARMENTS CONSISTING OF SEPARATE WAISTS AND PANTS; COMBINATION WAIST AND PANTS SUITS, SLEEPING BAGS, BATHING SUITS, SWIMMING TRUNKS, SWEAT SHIRTS, TENNIS SHIRTS, SWEATERS, SWEATER JACKETS, AND SPORT JACKETS.
Claims use since Oct. 1, 1915.

Ser. No. 493,373. MASKULINE UNDERWEAR CO., INC., New York, N. Y. Filed Dec. 15, 1945.



The picture of the man shown is fanciful. No claim is made to the representation of the shorts.
FOR MEN'S AND BOYS' SHIRTS, SPORT JACKETS, PAJAMAS, LUMBER JACKETS, HOSIERY, UNDERSHIRTS, AND SHORTS.
Claims use since Oct. 2, 1945.

Ser. No. 494,497. FREEMAN MANUFACTURING COMPANY, Sturgis, Mich. Filed Jan. 9, 1946.

SOVRAN

FOR LADIES' GIRDLES AND PANTIE GIRDLES.
Claims use since Nov. 13, 1945.

Ser. No. 494,599. CHRISTIAN H. FISCHBACHER, doing business as Fisba Handkerchiefs, New York, N. Y. Filed Jan. 11, 1946.

SONG-KERCHIEFS

Applicant disclaims the right to the use of the word "Kerchiefs," except in the relation and association shown.
FOR HANDKERCHIEFS.
Claims use since Jan. 8, 1945.

Ser. No. 494,963. EVEN-PUL FOUNDATIONS, INC., New York, N. Y. Filed Jan. 18, 1946.

"Alto"

FOR BRASSIÈRES AND BANDEAUX.
Claims use since Dec. 20, 1945.

Ser. No. 494,964. EVEN-PUL FOUNDATIONS, INC., New York, N. Y. Filed Jan. 18, 1946.

"Aria"

FOR BRASSIÈRES AND BANDEAUX.
Claims use since Dec. 20, 1945.

Ser. No. 495,763. RUSSELL-NEWMAN MANUFACTURING COMPANY, Denton, Tex. Filed Jan. 31, 1946.

Pinx

FOR WOMEN'S AND CHILDREN'S PANTIES, VESTS, BLOOMERS, SLIPS, NIGHTGOWNS, PAJAMAS, HOUSECOATS, AND BRASSIÈRES.
Claims use since Jan. 1, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 492,123. ARISTOCRAT LEATHER PRODUCTS, INC., New York, N. Y. Filed Nov. 24, 1945.

Aristocrat
FIFTH AVENUE

FOR LEATHER WATCH STRAPS, LEATHER CHAINS, LEATHER WATCH FOBS, AND COMBS, AND TOILET SETS CONSISTING OF A COMBINATION OF COMB, HAND MIRROR AND MANICURE SETS, MADE OF PLASTIC MATERIAL.
Claims use since April 1937.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 483,394. VERNEY FABRICS CORPORATION, New York, N. Y. Filed May 15, 1945.

Evensong

FOR PIECE GOODS OF RAYON FIBRES, COTTON, WOOL, OR SILK, AND OF MIXTURES THEREOF.
Claims use since Apr. 1, 1945.

CLASS 46

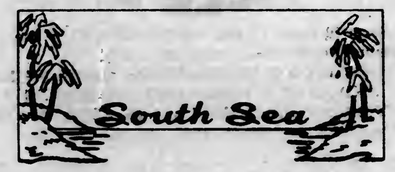
FOODS AND INGREDIENTS OF FOODS

Ser. No. 466,372. MAX AMS, INC., New York, N. Y. Filed Jan. 7, 1944.

APPLADE

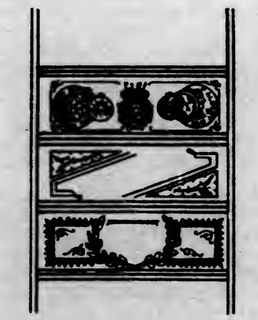
FOR APPLE JELLY MADE FROM APPLE CIDER, SUGAR, SYRUP, PECTIN, AND FRUIT ACID.
Claims use since Nov. 12, 1943.

Ser. No. 483,297. WILBUR-SUCHARD CHOCOLATE COMPANY, INC., Litits, Pa. Filed May 12, 1945.



FOR CHOCOLATE BARS.
Claims use since Apr. 2, 1945.

Ser. No. 484,564. FORCHERIO HERMANOS, Buenos Aires, Argentina. Filed June 15, 1945.



FOR CONFECTIONS—NAMELY, PEPPERMINT AND ANISE LOZENGES, CARAMELS, AND BON BONS.
Claims use since January 1922.

Ser. No. 485,625. J. S. BROWN, Jr., doing business as Distributors Company, New Iberia, La. Filed July 10, 1945.

PATSY'S PARTY

FOR CANNED FRUIT JUICES.
Claims use since June 14, 1945.

Ser. No. 488,056. H. E. SHAW COMPANY, Worcester, Mass. Filed Sept. 6, 1945.

BIG BOOB

FOR CANDIES—NAMELY, CHOCOLATE NOUGATINES, OLD FASHION CHOCOLATES, CHOCOLATE CARAMELS, PEANUT BUTTER CUPS, MAPLE WALNUTS, CHOCOLATE PEPPERMINTS, LOLLY POPS, CHOCOLATE FUDGE, RASPBERRY HEARTS, ASSORTED WAFERS.
Claims use since June 30, 1945.

Ser. No. 495,658. JOHN A. ECHOLS, San Antonio, Tex. Filed Jan. 30, 1946.



The descriptive word "Creme" is disclaimed apart from the mark.
FOR FROZEN CUSTARD AND ICE CREAM.
Claims use since February 1942.

Ser. No. 497,354. VALLEY DEHYDRATING CO., Kingsburg, Calif. Filed Feb. 27, 1946.

Swine-Dine

No claim is made to the word "Swine" apart from the mark.
FOR CONCENTRATED HOG FEED CONTAINING ADDED VITAMINS.
Claims use since January 1945.

Ser. No. 499,013. CARL A. ROSTTELE, doing business as Elsa Canning Company, Elsa, Tex. Filed Mar. 26, 1946.

RO-MAY

FOR CANNED TOMATOES AND CANNED TOMATO JUICE FOR FOOD PURPOSES.
Claims use since Feb. 3, 1945, on canned tomatoes; and since July 20, 1945, on canned tomato juice for food purposes.

Ser. No. 499,014. CARL A. ROSTTELS, doing business as Elsa Canning Company, Elsa, Tex. Filed Mar. 26, 1946.

ROTEL

FOR CANNED TOMATOES, CANNED TOMATO PURÉE, CANNED GRAPEFRUIT JUICE FOR FOOD PURPOSES, AND CANNED GRAPEFRUIT SEGMENTS.
Claims use since June 5, 1943, on canned tomatoes; since Feb. 19, 1944, on canned grapefruit juice; since Feb. 2, 1945, on canned tomato purée; and since Feb. 11, 1946, on canned grapefruit segments.

Ser. No. 500,940. SAMUEL L. BLUMERT, doing business as Blumert Packing Company, Chicago, Ill. Filed Apr. 26, 1946.

REDI-SAM



The word "Redi" and the representation of a fish are disclaimed apart from the mark.
FOR SMOKED FISH.
Claims use since Apr. 23, 1946.

CLASS 47

WINES

Ser. No. 497,069. CHATEAU GAY, LTD., Lewiston, N. Y. Filed Feb. 23, 1946.

Chateau Royale

FOR CHAMPAGNE AND SPARKLING BURGUNDY.
Claims use since Oct. 1, 1945.

Ser. No. 500,070. EUGENE P. FRANEK, doing business under the name Franek's Wholesale Liquor, New Orleans, La. Filed Apr. 12, 1946.

Chateau De Jon

FOR WINE.
Claims use since Mar. 20, 1946.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 496,232. C. REX GIBSON, doing business as Gibson Company, Harlan, Iowa. Filed Feb. 8, 1946.

GIBSON'S *flowering* MIRACLE BOWL

No claim is made to the word "Gibson's" or the words "Flowering Bowl" apart from the mark.
FOR BOWL CONTAINING SEEDS, GROWING MATERIAL, AND PLANT FOOD, FOR PRODUCING VARIOUS TYPES OF BLOOMING PLANTS, SOLD AS A UNIT.
Claims use since Nov. 1, 1945.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 20, 1946

422,907. PREPARATION FOR NASAL OBSTRUCTIONS, AN OINTMENT FOR ANAL AND RECTAL FISSURES, FOR CARDIOSPASM, PYLOROSPASM, ETC. MEDICO PHARMACAL LABORATORIES, San Antonio, Tex.
Filed March 9, 1942. Serial No. 451,497. PUBLISHED OCTOBER 26, 1943. Class 6.

422,908. NUTS, BOLTS, WASHERS, CLIPS, HASPS, LOCKING STUD FASTENERS, NUT RETAINERS, ROD, SHAFT AND STUD END COUPLINGS FOR ATTACHING HANDLES AND KNOBS TO METAL STRUCTURAL UNITS AND ROTATING HEAD SEPARABLE COWLING FASTENERS. SIMMONDS AEROCESSORIES LIMITED, Brentford, England.
Filed May 16, 1942. Serial No. 453,068. PUBLISHED MAY 28, 1946. Class 13.

422,909. WOVEN, RETICULAR, MESH NETTING AND SCREENING COMPOSED OF FILAMENTS OF NATURAL AND ARTIFICIAL RESINS AND PLASTICS AND SOLD IN ROLLS. HAROLD WARP, doing business as Flex-O-Glass Manufacturing Co., and as Warp Brothers, Chicago, Ill.
Filed February 6, 1943. Serial No. 458,379. PUBLISHED MAY 21, 1946. Class 13.

422,910. RUM, GIN, WHISKEY, ETHYL ALCOHOL, COGNAC, BRANDY, AND ANISETTE. COMPAÑIA CUBANA DE ALCOHOL, S. A., Santa Cruz Del Norte and Habana, Cuba.
Filed May 22, 1944. Serial No. 470,486. PUBLISHED MAY 7, 1946. Class 49.

422,911. MEN'S SUITS, HATS, AND OUTER SHIRTS; AND MEN'S AND BOYS' HOSIERY. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed June 26, 1944. Serial No. 471,657. PUBLISHED MAY 7, 1946. Class 39.

422,912. VEHICLES OF THE CHARACTER OF AUTOMOBILES, PARTICULARLY THOSE ADAPTED TO BE CHANGED INTO SIDE LOADING AMBULANCES. F. H. MCCLINTOCK CO., Lansing, Mich.
Filed July 12, 1944. Serial No. 472,150. PUBLISHED MAY 28, 1946. Class 19.

422,913. OILS, PROCESSED OILS AND SYNTHETIC OILS USED IN PLASTICIZERS IN PRINTING INKS, MOLDINGS AND CASTINGS, ETC. REICHHOLD CHEMICALS, INC., Detroit, Mich.
Filed July 29, 1944. Serial No. 472,750. PUBLISHED MAY 14, 1946. Class 6.

422,914. GLOVES, GARMENT BELTS AND SCARVES MADE OF LEATHER FOR WOMEN AND MISSES. BENJAMIN B. BRODY, Los Angeles, Calif.
Filed September 9, 1944. Serial No. 474,021. PUBLISHED JANUARY 30, 1945. Class 39.

422,915. JEWELRY—NAMELY, GOLD MOUNTINGS, WEDDING RINGS, COCKTAIL RINGS, AND BANDS FOR ATTACHING WRIST WATCHES, ETC. METRO JEWELRY COMPANY, New York, N. Y.
Filed September 14, 1944. Serial No. 474,202. PUBLISHED MAY 28, 1946. Class 28.

422,916. COLOGNE. ADELE SIMPSON INC., New York, N. Y., assignor to Adele Simpson & Co., New York, N. Y., a limited partnership.
Filed October 31, 1944. Serial No. 475,929. PUBLISHED MAY 7, 1946. Class 6.

422,917. CORROSION REMOVING PREPARATION USED IN AUTOMOTIVE, INDUSTRIAL, AND AIRCRAFT METAL CLEANING OPERATIONS. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed November 1, 1944. Serial No. 475,989. PUBLISHED JUNE 19, 1945. Class 4.

422,918. CHOCOLATE COATED CANDY BARS. GOLDEN NUGGET SWEETS LTD., San Francisco, Calif.
Filed November 7, 1944. Serial No. 476,206. PUBLISHED MAY 14, 1946. Class 46.

422,919. PLASTIC TREATED WOOD. DONALD E. FRITTS, doing business as Plastic Center Co., San Francisco, Calif.
Filed December 4, 1944. Serial No. 477,189. PUBLISHED MAY 7, 1946. Class 1.

422,920. LIPSTICK, ROUGE, FACE POWDER, PERFUME, NAIL POLISH, EYEBROW AND EYELASH MASCARA AND FACIAL AND HAND CREAMS. IMPRESSION PRODUCTS, Chicago, Ill., assignor to Affiliated Products, Inc., Jersey City, N. J., a corporation of Illinois
Filed December 26, 1944. Serial No. 477,931. PUBLISHED APRIL 10, 1945. Class 6.

422,921. HOSIERY, GLOVES MADE OF FABRIC OR COMBINATIONS OF FABRIC AND LEATHER, AND LADIES' UNDERWEAR, GIRDLES, SLIPS, PAJAMAS, NIGHTGOWNS, BED JACKETS, SWEATERS, AND SPORT SHIRTS AND JACKETS. JULIUS KAYSER & CO., New York, N. Y.
Filed January 20, 1945. Serial No. 478,818. PUBLISHED MAY 28, 1946. Class 39.

422,922. FILM FOR WRAPPING AND PACKAGING IN ROLLS AND/OR SHEETS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 29, 1945. Serial No. 479,120. PUBLISHED MAY 7, 1946. Class 37.

422,923. COFFEE, TEA, CANNED FISH, CANNED CONDENSED MILK, CANNED EVAPORATED MILK, MARMALADE, ETC. P. R. MYERS & Co., New York, N. Y.
Filed January 31, 1945. Serial No. 479,249. PUBLISHED MAY 21, 1946. Class 46.

422,924. NATURAL EARTH OIL AND GREASE ADSORBENT IN POWDERED OR GRANULAR FORM. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed February 2, 1945. Serial No. 479,325. PUBLISHED MAY 28, 1946. Class 1.

422,925. PERFUMERY. EVELYN WESTALL, doing business as Evelyn Westall Co., New York, N. Y.
Filed February 2, 1945. Serial No. 479,368. PUBLISHED MAY 7, 1946. Class 6.

422,926. CALENDARS. ALFRED D. BURG, doing business as The Calendar Guild, Minneapolis, Minn.
Filed February 5, 1945. Serial No. 479,419. PUBLISHED MAY 7, 1946. Class 38.

422,927. BABY CHICKS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 7, 1945. Serial No. 479,535. PUBLISHED MAY 21, 1946. Class 46.

422,928. PLASTIC CIGARETTE PACKAGE CONTAINERS. IRWIN CORPORATION, New York, N. Y.
Filed February 28, 1945. Serial No. 480,322. PUBLISHED MAY 28, 1946. Class 8.

422,929. TABLETS CONTAINING LIVER, IRON AND COPPER, AND CRYSTALLINE B VITAMINS FOR USE IN THE TREATMENT OF HYPOCHROMIC AND OTHER NUTRITIONAL ANEMIAS. LAKESIDE LABORATORIES, INC., Milwaukee, Wis.
Filed February 28, 1945. Serial No. 480,334. PUBLISHED AUGUST 7, 1946. Class 6.

422,930. HAND OR POCKET CIGARETTE ROLLING MACHINE. EDWARD C. NELSON, Van Dyne, Wis.
Filed March 5, 1945. Serial No. 480,521. PUBLISHED MAY 14, 1946. Class 8.

422,931. BRAKES FOR DIRIGIBLE AUTOMOTIVE VEHICLES, AND PARTS OF SUCH BRAKES. THE TIMKEN-DETROIT AXLE COMPANY, Detroit, Mich.
Filed March 5, 1945. Serial No. 480,535. PUBLISHED MAY 28, 1946. Class 19.

422,932. DYESTUFFS. AMERICAN ANILINE PRODUCTS, INC., New York, N. Y.
Filed March 14, 1945. Serial No. 480,885. PUBLISHED MAY 7, 1946. Class 6.

422,933. PERFUMES. BONWIT TELLER, INC., New York, N. Y.
Filed March 24, 1945. Serial No. 481,262. PUBLISHED MAY 14, 1946. Class 6.

422,934. PERFUMES AND DUSTING POWDER. BONWIT TELLER, INC., New York, N. Y.
Filed March 24, 1945. Serial No. 481,268. PUBLISHED MAY 7, 1946. Class 6.

422,935. BEER AND LIKE CEREAL MALT BEVERAGES. GRACE BROS. BREWING CO., Santa Rosa, Calif.
Filed March 28, 1945. Serial No. 481,407. PUBLISHED MAY 7, 1946. Class 48.

422,936. INDUSTRIAL SALES PROMOTION BULLETINS. STERLING E. NORCROSS, Bloomfield, N. J.
Filed April 3, 1945. Serial No. 481,674. PUBLISHED MAY 7, 1946. Class 38.

422,937. WHEAT FLOUR. BODNEY MILLING COMPANY, doing business as The Russell Milling Co., Kansas City, Mo., and Russell, Kans.
Filed April 9, 1945. Serial No. 481,913. PUBLISHED MAY 28, 1946. Class 46.

422,938. CHILDREN'S PAPER PLACE MATS. CHILDREN'S WISH MANUFACTURING CO., Los Angeles, Calif.
Filed May 19, 1945. Serial No. 483,567. PUBLISHED MAY 14, 1946. Class 37.

422,939. WINES. OLD MISSION WINERIES, Los Angeles, Calif.
Filed May 22, 1945. Serial No. 483,661. PUBLISHED MAY 7, 1946. Class 47.

422,940. PAINT ENAMELS. SAMUEL H. FRENCH PAINT COMPANY, Philadelphia, Pa.
Filed May 24, 1945. Serial No. 485,723. PUBLISHED MAY 14, 1946. Class 10.

422,941. SHOES MADE OF LEATHER, FABRIC, RUBBER, AND/OR COMBINATIONS THEREOF. THE SCHOLL MFG. CO., INC., Chicago, Ill.
Filed May 24, 1945. Serial No. 483,744. PUBLISHED MAY 21, 1946. Class 35.

422,942. DRAFTING MATERIAL AND SUPPLIES—NAMELY, DRAWING AND TRACING PAPER AND PREPARED FABRIC, ETC. EUGENE DIETZGEN CO., Chicago, Ill.
Filed May 26, 1945. Serial No. 483,813. PUBLISHED MAY 21, 1946. Class 37.

422,943. WINE. MODESTO CO-OPERATIVE WINERY, INC., Empire, Calif.
Filed May 28, 1945. Serial No. 483,865. PUBLISHED MAY 7, 1946. Class 47.

422,944. WINE. MODESTO CO-OPERATIVE WINERY, INC., Empire, Calif.
Filed May 28, 1945. Serial No. 483,866. PUBLISHED MAY 7, 1946. Class 47.

422,945. PERFUMES. CAFÉ SOCIETÉ PARFUM COMPANY, Milwaukee, Wis.
Filed May 29, 1945. Serial No. 483,894. PUBLISHED MAY 14, 1946. Class 6.

422,946. PERFUMES. CAFÉ SOCIETÉ PARFUM COMPANY, Milwaukee, Wis.
Filed May 29, 1945. Serial No. 483,895. PUBLISHED MAY 14, 1946. Class 6.

422,947. JEWELRY FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES. R. M. JORDAN AND COMPANY, Providence, R. I.
Filed June 7, 1945. Serial No. 484,258. PUBLISHED MAY 28, 1946. Class 28.

422,948. PASTEURIZED CHEESE FOOD CONTAINING THE FOLLOWING INGREDIENTS: BLUE CHEESE (ROQUEFORT TYPE), ETC. MICHIGAN DAIRY PRODUCTS CORPORATION, Crystal Falls, Mich.
Filed June 15, 1945. Serial No. 484,576. PUBDISHED MAY 21, 1946. Class 46.

422,949. WHISKEY, GIN, BRANDY, COGNAC, RUM, AND ALCOHOLIC CORDIALS. RECORDS & GOLDSBOROUGH, INC., Baltimore, Md.
Filed June 15, 1945. Serial No. 484,580. PUBLISHED MAY 7, 1946. Class 49.

422,950. CIGARS. SUCESSION DE JOSE L. PIEDRA, Habana, Cuba.
Filed June 18, 1945. Serial No. 484,717. PUBLISHED MAY 28, 1946. Class 17.

422,951. REGULARLY ISSUED NEWSPAPER. MINNEAPOLIS STAR-JOURNAL AND TRIBUNE COMPANY, Minneapolis, Minn.
Filed June 21, 1945. Serial No. 484,850. PUBLISHED MAY 28, 1946. Class 38.

422,952. CHEMICAL FOR COATING TEXTILE MATERIAL, PARTICULARLY SILK AND RAYON HOSIERY AND LINGERIE, TO BANISH SHINE AND LENGTHEN WEAR THEREOF. NYLIFE CORPORATION, Brooklyn, N. Y.
Filed June 22, 1945. Serial No. 484,901. PUBLISHED MAY 14, 1946. Class 6.

422,953. GARMENT FORMERS, TUMBLERS, PUFF-SETS, PRESS MACHINES AND BLOWERS AND DRYERS CONSTITUTING PARTS OF LAUNDRY AND DRY CLEANING MACHINES. IRA C. TROUTMAN, doing business as I. C. Troutman Co., Bell Gardens, Calif.
Filed June 25, 1945. Serial No. 485,038. PUBLISHED OCTOBER 16, 1945. Class 24.

422,954. METALLIC PULLEY COVERS AND HAND OR PNEUMATICALLY OPERATED VALVES FOR CONTROLLING THE RELEASE OF FLUID PRESSURE MEDIA FROM CONTAINERS. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,285. PUBLISHED MAY 28, 1946. Class 13.

422,955. TIMING APPARATUS ADAPTED FOR INSTALLATION IN FIRE EXTINGUISHING SYSTEMS AND OPERABLE THEREBY, ETC. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,292. PUBLISHED MAY 28, 1946. Class 26.

422,956. SYRUPS AND FLAVORING EXTRACTS FOR NON-ALCOHOLIC BEVERAGES, ROOT BEER IMITATION CONCENTRATE AND COLA CONCENTRATE USED FOR NON-ALCOHOLIC BEVERAGES SOLD TO MANUFACTURERS AND WHOLESALERS. HENRY HEIMAN, doing business as H. Heiman Company, New York, N. Y.
Filed July 2, 1945. Serial No. 485,345. PUBLISHED MAY 28, 1946. Class 45.

422,957. PAPER MEMORANDUM PADS. WRIGHT LEATHER SPECIALTY CO., St. Louis, Mo.
Filed July 5, 1945. Serial No. 485,494. PUBLISHED MAY 14, 1946. Class 37.

422,958. METALLIC PIPE-JOINTS. HYDRIL CORPORATION, Los Angeles, Calif.
Filed July 18, 1945. Serial No. 485,773. PUBLISHED MAY 21, 1946. Class 13.

422,959. CIGARS. PABLO L. PEREZ, Habana, Cuba.
Filed July 13, 1945. Serial No. 485,793. PUBLISHED MAY 14, 1946. Class 17.

422,960. PERFUME EXTRACTS. GEORGE SCHLEE, doing business as Parfums Valentina, New York, N. Y.
Filed July 14, 1945. Serial No. 485,839. PUBLISHED MAY 7, 1946. Class 6.

422,961. SHEET MATERIAL CONSISTING OF SYNTHETIC RESIN BACKED WITH FABRIC AND HAVING A FACE EMBOSSED OR GRAINED IN SIMULATION OF LEATHER. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed July 19, 1945. Serial No. 485,962. PUBLISHED MAY 21, 1946. Class 50.

422,962. FACE POWDERS, TOILET PERFUMES, LIPSTICKS, ROUGES AND FACIAL LOTIONS. PHILIP S. WILLINGMYER, Merchantville, N. J.
Filed July 21, 1945. Serial No. 486,130. PUBLISHED MAY 14, 1946. Class 6.

422,963. FACE POWDERS, TOILET PERFUMES, LIPSTICKS, ROUGES, AND FACIAL LOTIONS. PHILIP S. WILLINGMYER, Merchantville, N. J.
Filed July 21, 1945. Serial No. 486,131. PUBLISHED MAY 14, 1946. Class 6.

422,964. RUBBER HAND STAMPS BEARING CHEMICAL INDICIA UTILIZED IN THE WRITING OF CHEMICAL FORMULAS. CHEM-STAMPS, Bayonne, N. J.
Filed July 24, 1945. Serial No. 486,191. PUBLISHED MAY 14, 1946. Class 37.

422,965. CANNED SARDINES. PRINCETON PACKERS, Half Moon Bay, Calif.
Filed July 23, 1945. Serial No. 486,168. PUBLISHED MAY 28, 1946. Class 48.

422,966. PICTURES. SASS-DORNE STUDIO, Los Angeles, Calif.
Filed July 23, 1945. Serial No. 486,170. PUBLISHED MAY 28, 1946. Class 38.

422,967. TABLETS FOR THE TREATMENT OF HYPOTHYROIDISM. TABLEROCK LABORATORIES INC., Greenville, S. C.
Filed July 26, 1945. Serial No. 486,339. PUBLISHED MAY 7, 1946. Class 6.

422,968. COMBINATION OF B-COMPLEX VITAMINS AND ASCORBIC ACID. CLARK & CLARK, Wenonah, N. J.
Filed August 21, 1945. Serial No. 487,355. PUBLISHED MAY 7, 1946. Class 6.

422,969. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed August 11, 1945. Serial No. 487,051. PUBLISHED MAY 21, 1946. Class 39.

422,970. PHARMACEUTICAL PREPARATION FOR THE TREATMENT OF MINOR ACHES AND PAINS DUE TO COMMON COLDS, SIMPLE HEADACHES, AND SIMPLE NEURALGIA. HOGSHEAD CHEMICAL CORPORATION, Norfolk, Va.
Filed August 21, 1945. Serial No. 487,367. PUBLISHED MAY 14, 1946. Class 6.

422,971. PHARMACEUTICAL AND MEDICINAL PREPARATION INDICATED IN AND FOR THE TREATMENT OF LIVER COMPLAINT, ETC. PIERCE'S PROPRIETARIES, INC., Buffalo, N. Y.
Filed August 27, 1945. Serial No. 487,638. PUBLISHED MAY 14, 1946. Class 6.

422,972. TOY SWINGS, TEETERBOARDS, TOY SLIDES, SAND-BOXES, STILTS, JUMPING STANDARDS, TOY LADDERS, AND TOY GYMNASIUMS. THE PLAYCRAFT CO., Skokie, Ill.
Filed August 27, 1945. Serial No. 487,687. PUBLISHED MAY 7, 1946. Class 22.

422,973. PERIODICALS, PUBLISHED BOOKLETS, AND PAMPHLETS PERTAINING TO PHOTOGRAPHY. GENERAL ANILINE & FILM CORPORATION, New York and Binghamton, N. Y.
Filed August 28, 1945. Serial No. 487,676. PUBLISHED MAY 28, 1946. Class 38.

422,974. WATCHES AND PARTS OF WATCHES. SAUTER FRERES & CO., FABRIQUE D'HORLOGERIE, PIERPONT, S. A., Bienne, Switzerland.
Filed September 1, 1945. Serial No. 487,919. PUBLISHED MAY 7, 1946. Class 27.

422,975. SEEDS—NAMELY, VEGETABLE, FLOUR, AND GRASS SEEDS. FERRY-MORSE SEED CO., Detroit, Mich.
Filed September 7, 1945. Serial No. 488,083. PUBLISHED MAY 14, 1946. Class 1.

422,976. PRINTED BOOKS. ROYCE PUBLISHERS, Chicago, Ill.
Filed September 7, 1945. Serial No. 488,126. PUBLISHED MAY 7, 1946. Class 38.

422,977. DRIERS, DISPERSING AGENTS, BODYING AGENTS, AND STABILIZING AGENTS FOR LINOLEUM AND OILED CLOTH COMPOSITIONS AND OTHER FABRIC COATING COMPOSITIONS, AND GRINDING AGENTS FOR FACILITATING THE INCORPORATION OF PIGMENTS INTO SUCH COMPOSITIONS. NUODEX PRODUCTS CO., INC., Elizabeth, N. J.
Filed September 11, 1945. Serial No. 488,281. PUBLISHED MAY 7, 1946. Class 6.

422,978. LEATHER. J. S. BARNET & SONS, INCORPORATED, Lynn, Mass.
Filed September 14, 1945. Serial No. 488,444. PUBLISHED MAY 28, 1946. Class 1.

422,979. PRINTED CALCULATING CHARTS. UNICAL IMPORT COMPANY, New York, N. Y.
Filed September 14, 1945. Serial No. 488,495. PUBLISHED MAY 28, 1946. Class 38.

422,980. CHILDREN'S MAGAZINES. OMER BOUCQUEY, St. Cloud, France.
Filed September 15, 1945. Serial No. 488,505. PUBLISHED MAY 28, 1946. Class 38.

422,981. CERAMIC BODY MIXTURE OF VARIOUS CLAYS, FELDSPAR, SILICA, AND BERYLLIUM, ALL IN POWDERED FORM, ETC. THE PATTERSON FOUNDRY & MACHINE CO., East Liverpool, Ohio.
Filed September 21, 1945. Serial No. 488,831. PUBLISHED MAY 28, 1946. Class 1.

422,982. EXTRUDED AND MOLDED SHEETS, SLABS, FILMS AND SPECIAL SHAPES MADE OF COMPAR (COMPOUNDED POLYVINYL ALCOHOL), ETC. RESISTOFLEX CORPORATION, Belleville, N. J.
Filed September 22, 1945. Serial No. 488,866. PUBLISHED MAY 7, 1946. Class 1.

422,983. PRINTED BOOKS. WM. H. WISE & CO., INC., New York, N. Y.
Filed September 26, 1945. Serial No. 489,028. PUBLISHED MAY 28, 1946. Class 38.

422,984. WAVE SET PREPARATION FOR THE HAIR. PENNEX PRODUCTS CO., INCORPORATED, Pittsburgh, Pa.
Filed September 28, 1945. Serial No. 489,143. PUBLISHED MAY 14, 1946. Class 6.

422,985. SCOTCH WHISKEY AND LIQUEURS. WILLIAM THORBURN, LIMITED, Edinburgh, Scotland.
Filed September 29, 1945. Serial No. 489,190. PUBLISHED MAY 28, 1946. Class 49.

422,986. GARDEN MULCHES USED AS PROTECTIVE COVERING FOR PLANTS, ROOTS, AND BULBS. LARROWE MILLS, INC., Cohocton, N. Y.
Filed October 1, 1945. Serial No. 489,225. PUBLISHED MAY 7, 1946. Class 1.

422,987. LIPSTICKS, PERFUMES, ROUGE, PERFUME SACHET IN POWDER FORM, BRILLIANTINE, DUSTING POWDER, AND SKIN LOTION. HOUBIGANT, INC., New York, N. Y.
Filed October 2, 1945. Serial No. 489,264. PUBLISHED MAY 7, 1946. Class 6.

422,988. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed October 4, 1945. Serial No. 489,379. PUBLISHED MAY 14, 1946. Class 6.

422,989. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed October 4, 1945. Serial No. 489,381. PUBLISHED MAY 14, 1946. Class 6.

422,990. MAGAZINES AND PROMOTIONAL LITERATURE PUBLISHED FROM TIME TO TIME AND DIRECTED TO PHOTO FLASH WORK. THE KALART COMPANY, INC., Stamford, Conn.
Filed October 5, 1945. Serial No. 489,465. PUBLISHED MAY 28, 1946. Class 38.

422,991. PENCIL TABLETS, COMPOSITION BOOKS, NOTE BOOKS, SPELLING BLAINKS, COMPOSITION PAPER, PRACTICE PAPER, ETC. KURTZ BROS., Clearfield, Pa.
Filed October 5, 1945. Serial No. 489,470. PUBLISHED MAY 28, 1946. Class 37.

422,992. PHARMACEUTICAL PREPARATIONS CONSISTING OF SOLUTIONS OF A HYDROLYSATE OF PROTEIN, AND SOLUTIONS OF A HYDROLYSATE OF PROTEIN AND DEXTROSE. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed October 8, 1945. Serial No. 489,592. PUBLISHED APRIL 2, 1946. Class 6.

422,993. CHEMICAL PREPARATION FOR REMOVING CARBON FROM TANKS, TUBES, AND BOILERS. NEW PROCESS SERVICE COMPANY, San Francisco, Calif.
Filed October 8, 1945. Serial No. 489,601. PUBLISHED MAY 7, 1946. Class 6.

422,994. CHEMICAL PREPARATION FOR FLUSHING AND FLASHING SCALE FROM TUBES. NEW PROCESS SERVICE COMPANY, San Francisco, Calif.
Filed October 8, 1945. Serial No. 489,602. PUBLISHED MAY 7, 1946. Class 6.

422,995. LEATHERS. PYRAMID LEATHER GOODS CO., INC., New York, N. Y.
Filed October 8, 1945. Serial No. 489,610. PUBLISHED MAY 7, 1946. Class 1.

422,996. WRITING PENS, PEN POINTS, AND FOUNTAIN PENS. BOL, LTD., New York, N. Y.
Filed October 9, 1945. Serial No. 489,651. PUBLISHED MAY 28, 1946. Class 37.

422,997. BRANDY. DE LA SALLE INSTITUTE, doing business as Mont La Salle Vineyards, Napa, Calif.
Filed October 9, 1945. Serial No. 489,657. PUBLISHED MAY 28, 1946. Class 49.

422,998. WINES. DE LA SALLE INSTITUTE, doing business as Mont La Salle Vineyards, Napa, Calif.
Filed October 9, 1945. Serial No. 489,658. PUBLISHED MAY 28, 1946. Class 47.

422,999. PERFUME, TOILET WATER, LIP STICK, ROUGE, FACE POWDER, NIGHT CREAM, FOUNDATION CREAM, ETC. SOCIALITE COSMETICS, INC., New York, N. Y.
Filed October 9, 1945. Serial No. 489,695. PUBLISHED MAY 7, 1946. Class 6.

423,000. PERFUME, TOILET WATER, LIP STICK, ROUGE, FACE POWDER, NIGHT CREAM, COLD CREAM, FOUNDATION CREAM, ETC. SOCIALITE COSMETICS, INC., New York, N. Y.
Filed October 9, 1945. Serial No. 489,697. PUBLISHED MAY 7, 1946. Class 6.

423,001. FACE POWDER, DUSTING POWDER, AND PERFUME. CONSOLIDATED COSMETICS, Chicago, Ill.
Filed October 10, 1945. Serial No. 489,715. PUBLISHED MAY 14, 1946. Class 6.

423,002. TOILET PAPER. ALBERT J. HADERT, doing business as Tredah Company, Fort Wayne, Ind.
Filed October 18, 1945. Serial No. 490,117. PUBLISHED MAY 7, 1946. Class 37.

423,003. ROTOR-BALANCING APPARATUS. SPERRY GYROSCOPE COMPANY, INC., Great Neck, N. Y.
Filed October 18, 1945. Serial No. 490,145. PUBLISHED MAY 21, 1946. Class 26.

423,004. PERFUMES, TOILET WATERS, BATH POWDERS, AND SKIN LOTIONS. PARFUMS BLANCHARD, New York, N. Y.
Filed October 20, 1945. Serial No. 490,255. PUBLISHED MAY 14, 1946. Class 6.

423,005. GRASS SEED. FERRY-MORSE SEED CO., San Francisco, Calif.
Filed October 22, 1945. Serial No. 490,302. PUBLISHED MAY 28, 1946. Class 1.

423,006. IMPREGNATED WRAPPING PAPER. SHELL UNION OIL CORPORATION, San Francisco, Calif.
Filed October 23, 1945. Serial No. 490,401. PUBLISHED MAY 7, 1946. Class 37.

423,007. SYNTHETIC FINISHING RESINS USED FOR THE PURPOSE OF STIFFENING AND THE CONTROL OF STRETCHING, SHRINKING AND COLOR FASTNESS OF TEXTILE FABRICS AND FIBRES. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed October 24, 1945. Serial No. 490,412. PUBLISHED MAY 14, 1946. Class 6.

423,008. NOTE BOOKS, COMPOSITION BOOKS, COMBINATION THEME TABLETS, NOTE BOOK FILLER PAPER, AND WRITING PAPER. WESTERN TABLET & STATIONERY CORPORATION, Dayton, Ohio.
Filed October 25, 1945. Serial No. 490,517. PUBLISHED MAY 28, 1946. Class 37.

423,009. PICTORIAL PERIODICAL ALSO CONTAINING PRINTED MATTER. ROBERT HARRISON, New York, N. Y.
Filed October 29, 1945. Serial No. 490,658. PUBLISHED MAY 28, 1946. Class 38.

423,010. GREETING CARDS. JANES ART STUDIOS, INC., Rochester, N. Y.
Filed October 29, 1945. Serial No. 490,661. PUBLISHED MAY 28, 1946. Class 38.

423,011. DIAGNOSTIC AGENT FOR THE DETECTION OF DISEASES IN POULTRY. ROBERT W. TERRY, doing business as Columbus Vaccine Company, Columbus, Ohio.
Filed October 29, 1945. Serial No. 490,716. PUBLISHED MAY 7, 1946. Class 6.

423,012. BOOTS, SHOES, SANDALS, MOCCASINS, AND BATH SLIPPERS, ALL MADE OF LEATHER, RUBBER, OR FABRIC, OR OF COMBINATIONS OF SAID MATERIALS. UPSON'S, LIMITED, London, England.
Filed October 29, 1945. Serial No. 490,717. PUBLISHED MAY 28, 1946. Class 39.

423,013. PERFUMES, EAU DE TOILETTE, EAU DE COLOGNE, ROUGE, LIPSTICK, EYE SHADOW, FACE AND TALCUM POWDERS, ETC. GOLDEN ARROW TOILETRIES, New York, N. Y.
Filed October 31, 1945. Serial No. 490,813. PUBLISHED MAY 7, 1946. Class 6.

423,014. MEDICINAL COMPOUNDS—NAMELY, TABLETS FOR INTESTINAL DISORDERS. THE MALTINE COMPANY, New York, N. Y.
Filed November 1, 1945. Serial No. 490,897. PUBLISHED MAY 7, 1946. Class 6.

423,015. KITS CONTAINING ARTICLES FOR ORNAMENTING CERAMIC WARE—NAMELY, INSTRUCTION SHEET, CERAMIC WARE, GLAZE OUTLINE PENCIL, AND CERAMICS BRUSH. SAMUEL GORDON STARR, Arlington, Va.
Filed November 1, 1945. Serial No. 490,908. PUBLISHED MAY 21, 1946. Class 50.

423,016. ANTHELMINTIC AND ANTIBACTERIAL PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed November 2, 1945. Serial No. 490,975. PUBLISHED MAY 7, 1946. Class 6.

423,017. SHEETS, FILMS, FOILS, RODS, TUBES, POWDERS, CHIPS, SLABS, BLANKS, FLAKES, BLOCKS AND THE LIKE, ETC. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed November 3, 1945. Serial No. 490,997. PUBLISHED MAY 28, 1946. Class 1.

423,018. TOILET TISSUE. SILKLIN PAPER CORPORATION, San Francisco, Calif.
Filed November 6, 1945. Serial No. 491,172. PUBLISHED MAY 21, 1946. Class 37.

423,019. SMOKING TOBACCO. LANE TOBACCO, LTD., New York, N. Y.
Filed November 8, 1945. Serial No. 491,272. PUBLISHED MAY 14, 1946. Class 17.

423,020. SMOKING TOBACCO. LANE TOBACCO, LTD., New York, N. Y.
Filed November 8, 1945. Serial No. 491,273. PUBLISHED MAY 14, 1946. Class 17.

423,021. INSECTICIDES ADAPTED FOR SPRAYING ANIMALS AND INSECTICIDES FOR KILLING INSECTS. LABORATORY PRODUCTS CORP., New York, N. Y.
Filed November 9, 1945. Serial No. 491,344. PUBLISHED MAY 14, 1946. Class 6.

423,022. CHAMPAGNE AND SPARKLING BURGUNDY WINES. CANANDAIGUA INDUSTRIES CO., Canandaigua, N. Y.
Filed November 10, 1945. Serial No. 491,395. PUBLISHED MAY 7, 1946. Class 47.

423,023. CHAMPAGNE. CANANDAIGUA INDUSTRIES CO., Canandaigua, N. Y.
Filed November 10, 1945. Serial No. 491,396. PUBLISHED MAY 7, 1946. Class 47.

423,024. INSECTICIDES, FUNGICIDES, AND DISINFECTANTS. ROHM & HAAS COMPANY, Philadelphia, Pa.
Filed November 13, 1945. Serial No. 491,514. PUBLISHED MAY 14, 1946. Class 6.

423,025. ASH TRAYS. E. A. VERMERE, Los Angeles, Calif.
Filed November 13, 1945. Serial No. 491,531. PUBLISHED MAY 14, 1946. Class 8.

423,026. LADIES' HATS. J. COLLETT LIMITED, London, England.
Filed November 14, 1945. Serial No. 491,548. PUBLISHED MAY 28, 1946. Class 39.

423,027. RECLAIMED RUBBER. THE PHILADELPHIA RUBBER WORKS COMPANY, Akron and Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York.
Filed November 15, 1945. Serial No. 491,674. PUBLISHED MAY 14, 1946. Class 1.

423,028. PULVERIZED WOOD PULP. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y.
Filed November 15, 1945. Serial No. 491,693. PUBLISHED MAY 14, 1946. Class 1.

423,029. WATER FILTERS AND APPARATUS FOR PURIFYING WATER OF THE TYPE WHICH INJECTS CHEMICALS AND ADSORPTIVE MATERIALS INTO RAW WATER PRIOR TO FILTRATION. TITEFLEX, INC., Newark, N. J.
Filed November 16, 1945. Serial No. 491,739. PUBLISHED MAY 28, 1946. Class 31.

423,030. PROTRACTORS. CARDINELL PRODUCTS, Montclair, N. J.
Filed November 17, 1945. Serial No. 491,749. PUBLISHED MAY 28, 1946. Class 26.

423,031. SWEATERS, HOODS, STOCKINGS, SKI TROUSERS, SKI PARKAS, LEATHER MITTENS, OUTER SKIRTS, ETC. ANN BONFOEY COOKE, Stowe, Vt.
Filed November 17, 1945. Serial No. 491,751. PUBLISHED MAY 28, 1946. Class 39.

423,032. COLLAPSIBLE CLOTHES DRYING RACK. A. O. GROMBACH, doing business as Robert Hilton Company, Chicago, Ill.
Filed November 19, 1945. Serial No. 491,827. PUBLISHED MAY 21, 1946. Class 24.

423,033. COAL. HOLMES-DARST COAL CORPORATION, Knoxville, Tenn.
Filed November 19, 1945. Serial No. 491,833. PUBLISHED MAY 21, 1946. Class 1.

423,034. CLOCKS. THE E. INGRAHAM COMPANY, Bristol, Conn.
Filed November 19, 1945. Serial No. 491,837. PUBLISHED MAY 7, 1946. Class 27.

423,035. FRESH VEGETABLES—NAMELY TOMATOES. R. J. WILEY, Irvine, Calif.
Filed November 26, 1945. Serial No. 492,242. PUBLISHED MAY 28, 1946. Class 46.

423,036. PERFUMES, COLOGNES, TOILET WATERS, SKIN DRESSINGS, LIPSTICKS, ROUGES, FACE CREAMS, COSMETIC AND BATH OILS, AND FACE AND BODY DUSTING POWDERS. PARFUMS SCHIAPARELLI, INC., New York, N. Y.
Filed November 27, 1945. Serial No. 492,275. PUBLISHED MAY 7, 1946. Class 6.

423,037. BATH ROOM FIXTURES—NAMELY, RACKS AND HOOKS FOR TOWELS, AND HOLDERS FOR SOAP BOWLS. LYNN PRODUCTS, INC., Plainfield, N. J.
Filed December 1, 1945. Serial No. 492,501. PUBLISHED MAY 21, 1946. Class 13.

423,038. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, ROUGE, LIPSTICKS, NAIL LACQUERS, AND PERFUME. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed December 3, 1945. Serial No. 492,538. PUBLISHED MAY 14, 1946. Class 6.

423,039. SOAP. CARL A. FUTTER, Chicago, Ill.
Filed December 3, 1945. Serial No. 492,555. PUBLISHED MAY 27, 1946. Class 4.

423,040. WINE. UPLAND WINERY, Sunnyside, Wash.
Filed December 3, 1945. Serial No. 492,601. PUBLISHED MAY 21, 1946. Class 47.

423,041. DIAMONDS. HI-HONORED DIAMOND CORP., Binghamton, N. Y.
Filed December 4, 1945. Serial No. 492,628. PUBLISHED MAY 21, 1946. Class 28.

423,042. BRACELETS AND NECKLACES. PARFUMS CHARBERT, INC., New York, N. Y.
Filed December 4, 1945. Serial No. 492,652. PUBLISHED MAY 21, 1946. Class 28.

423,043. INSECTICIDES. TOM HUSTON, doing business as Tuff Stuff Insecticides, Miami, Fla.
Filed December 5, 1945. Serial No. 492,709. PUBLISHED MAY 14, 1946. Class 6.

423,044. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, HAND LOTIONS, ROUGE, LIPSTICKS, AND NAIL LACQUERS. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed December 6, 1945. Serial No. 492,759. PUBLISHED MAY 7, 1946. Class 6.

423,045. AVIATION CAPS. ROY PARIS, Dallas, Tex.
Filed Dec. 6, 1945. Serial No. 492,786. PUBLISHED MAY 28, 1946. Class 39.

423,046. MOTOR-OPERATED VEHICULAR CLOSED CARRIERS—NAMELY, GARBAGE COLLECTORS. ARTHUR SICARD, Montreal, Quebec, Canada.
Filed December 6, 1945. Serial No. 492,798. PUBLISHED MAY 28, 1946. Class 19.

423,047. FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES. CALIFORNIA COOPERATIVE PACKAGING ASSOCIATION, Los Angeles, Calif.
Filed December 7, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,822. PUBLISHED MAY 28, 1946. Class 46.

423,048. BOTTLED FRUIT JUICE AND PULP FOR FOOD PURPOSES, JELLIES, FRUIT AND BERRY PRESERVES, AND ORANGE MARMALADE. DIAMOND T PRESERVING CO., Los Angeles, Calif.
Filed December 7, 1945. Serial No. 492,825. PUBLISHED MAY 21, 1946. Class 46.

423,049. HANDKERCHIEFS. LEHIGH HANDKERCHIEF CO., New York, N. Y.
Filed December 8, 1945. Serial No. 492,928. PUBLISHED MAY 28, 1946. Class 39.

423,050. PRESCRIPTION VEHICLE FOR THE SOLUTION AND/OR SUSPENSION OF ACTIVE DRUGS. WILLIAM R. WARNER & CO., INC., New York, N. Y.
Filed December 11, 1945. Serial No. 493,089. PUBLISHED MAY 14, 1946. Class 6.

423,051. CRUISING SAILBOATS, WITH OR WITHOUT AUXILIARY POWER, AND SAILS THEREFOR. MALCOLM SEAVEY, doing business as Malcolm Seavey & Co., Thomaston, Maine.
Filed December 12, 1945. Serial No. 493,149. PUBLISHED MAY 21, 1946. Class 19.

423,052. WINES. TOP WINE CO., Brooklyn, N. Y.
Filed December 12, 1945. Serial No. 493,153. PUBLISHED MAY 21, 1946. Class 47.

423,053. HIGH-POTENCY VITAMIN D PRODUCT IN COMBINATION WITH MULTIPLE VITAMINS FOR USE IN THERAPY WHERE HIGH-POTENCY VITAMIN D IS INDICATED. U. S. VITAMIN CORPORATION, New York, N. Y.
Filed December 13, 1945. Serial No. 493,229. PUBLISHED MAY 14, 1946. Class 6.

423,054. DESICCATED WHOLE LIVER IN TABLET FORM TO BE USED AS DIETARY SUPPLEMENT OR IN THERAPY WHERE FACTORS IN WHOLE LIVER ARE INDICATED. U. S. VITAMIN CORPORATION, New York, N. Y.
Filed December 13, 1945. Serial No. 493,230. PUBLISHED MAY 14, 1946. Class 6.

423,055. MEN'S HATS. JOSEPH KANNER HAT CO., INC., South Norwalk, Conn.
Filed December 15, 1945. Serial No. 493,362. PUBLISHED MAY 28, 1946. Class 39.

423,056. MEN'S HATS. JOSEPH KANNER HAT CO., INC., South Norwalk, Conn.
Filed December 15, 1945. Serial No. 493,363. PUBLISHED MAY 28, 1946. Class 39.

423,057. SLIPPERS MADE OF LEATHER, OR LEATHER AND FABRIC OR LEATHER AND RUBBER. WILLIAM COHAN, Chicago, Ill.
Filed December 17, 1945. Serial No. 493,428. PUBLISHED MAY 28, 1946. Class 39.

423,058. CANNED CHICKEN AND TURKEY MEATS WITH THEIR GRAVIES AND JELLIES. WASHINGTON CO-OPERATIVE FARMERS' ASSOCIATION, Seattle, Wash.
Filed December 17, 1945. Serial No. 493,467. PUBLISHED MAY 21, 1946. Class 46.

423,059. FLAVORING AND SEASONING SAUCES. SAVAS KASSAPS, doing business as Yankee Food Company, Mount Lebanon, Pa.
Filed December 18, 1945. Serial No. 493,493. PUBLISHED MAY 21, 1946. Class 46.

423,060. WHEAT FLOUR. GROSSE POINTE FLOUR COMPANY, Grosse Pointe, Mich.
Filed December 19, 1945. Serial No. 493,554. PUBLISHED MAY 21, 1946. Class 46.

423,061. AUTOMOBILE REPAIR PATCHES FOR AUTOMOBILE AND BICYCLE TIRES. LOUIS RUSTIN, Clichy, France.
Filed December 19, 1945. Serial No. 493,569. PUBLISHED MAY 28, 1946. Class 35.

423,062. HOSIERY. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J.
Filed December 21, 1945. Serial No. 493,686. PUBLISHED MAY 14, 1946. Class 39.

423,063. BABY CARRIAGES AND STROLLERS. THAYER COMPANY, Gardner, Mass.
Filed December 22, 1945. Serial No. 493,847. PUBLISHED MAY 28, 1946. Class 19.

423,064. CHEMICAL FOR TREATING PHOTOGRAPHIC TRANSPARENCIES. EDWARD J. HERBERT, doing business as Edroy Products Company, New York, N. Y.
Filed December 27, 1945. Serial No. 493,925. PUBLISHED MAY 7, 1946. Class 6.

423,065. EYE LOTION. BUFFINGTON'S INC., Worcester, Mass.
Filed December 29, 1945. Serial No. 494,020. PUBLISHED MAY 7, 1946. Class 6.

423,066. MEDICINAL THROAT LOZENGE. BUFFINGTON'S INC., Worcester, Mass.
Filed December 29, 1945. Serial No. 494,023. PUBLISHED MAY 7, 1946. Class 6.

423,067. STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. NATIONAL SILVER COMPANY, New York, N. Y.
Filed December 29, 1945. Serial No. 494,105. PUBLISHED MAY 28, 1946. Class 28.

423,068. BRILLIANTINE HAIR DRESSING. LUCILA SALAZAR, doing business as Los Angeles Pharmacal Co., Los Angeles, Calif.
Filed December 29, 1945. Serial No. 494,126. PUBLISHED MAY 7, 1946. Class 6.

423,069. ANCHOR NUTS AND COUPLINGS. SOUTH CHESTER CORPORATION, Chester, Pa.
Filed December 29, 1945. Serial No. 494,136. PUBLISHED MAY 28, 1946. Class 18.

423,070. EAU DE COLOGNE. ROBERTS CREATIONS COMPANY, New York, N. Y.
Filed January 3, 1946. Serial No. 494,237. PUBLISHED MAY 14, 1946. Class 6.

423,071. PHARMACEUTICAL PREPARATION FOR USE AS A SPIROCHAETICIDE AND TRYPANOCIDE IN THE TREATMENT OF SYPHILIS, ETC. COLE CHEMICAL COMPANY, St. Louis, Mo.
Filed January 5, 1946. Serial No. 494,309. PUBLISHED MAY 14, 1946. Class 6.

423,072. WATCHES, CLOCKS, AND PARTS THEREOF. BERNARD B. FISHER, New York, N. Y.
Filed January 5, 1946. Serial No. 494,817. PUBLISHED MAY 28, 1946. Class 27.

423,073. COUNTER IRRITANT FOR USE ON HORSES. R. D. CONELEY, doing business as Man-O-War Remedy Company, Lima, Pa., assignor to Man-O-War Remedy Company, Lima, Pa., a corporation of Delaware
Filed January 8, 1946. Serial No. 494,427. PUBLISHED MAY 14, 1946. Class 6.

423,074. TALCUM POWDER. THE GOODMAN CHEMICAL CO., Brooklyn, N. Y.
Filed January 8, 1946. Serial No. 494,442. PUBLISHED MAY 7, 1946. Class 6.

423,075. HAIR CREAM. HAIR RESEARCH LABORATORIES PRODUCTS COMPANY, New York, N. Y.
Filed January 11, 1946. Serial No. 494,604. PUBLISHED MAY 7, 1946. Class 6.

423,076. ESTROGENIC HORMONE CREAM. WILLIAM J. HART, doing business as Bio-Chemical Products Co., Cleveland, Ohio.
Filed January 16, 1946. Serial No. 494,841. PUBLISHED MAY 14, 1946. Class 6.

423,077. VAGINAL DOUCHE. ORTHO PHARMACEUTICAL CORPORATION, Linden, N. J.
Filed January 16, 1946. Serial No. 494,859. PUBLISHED MAY 14, 1946. Class 6.

423,078. SIMULATED PEARLS AND NOVELTY JEWELRY. TRES BANDERAS, INC., New York, N. Y.
Filed January 16, 1946. Serial No. 494,874. PUBLISHED MAY 28, 1946. Class 28.

423,079. LIQUID PREPARATION FOR STIMULATING HAIR GROWTH AND A LIQUID TOOTH ANTISEPTIC. LORRENE JOHNSTON, Cleveland, Ohio.
Filed January 17, 1946. Serial No. 494,910. PUBLISHED MAY 14, 1946. Class 6.

423,080. COSTUME JEWELRY. LOUIS G. MEYERS, doing business as Alpha-Craft Company, New York, N. Y.
Filed January 17, 1946. Serial No. 494,916. PUBLISHED MAY 28, 1946. Class 28.

423,081. TRAILERS, STRUCTURAL PARTS FOR TRAILERS AND TRUCKS, SINGLE-AXLE AND TANDEM-AXLE SEMI-TRAILERS, AND TRUCK BODIES. FEATHER RIDE, INC., Portland, Oreg.
Filed January 18, 1946. Serial No. 494,966. PUBLISHED MAY 28, 1946. Class 19.

423,082. ELECTRIC CLOCKS. REX COLE, INC., Long Island City, N. Y.
Filed January 19, 1946. Serial No. 495,013. PUBLISHED MAY 28, 1946. Class 27.

423,083. PERFUMES AND TOILET WATERS. PARFUMS MASSENET, INC., New York, N. Y.
Filed January 19, 1946. Serial No. 495,093. PUBLISHED MAY 14, 1946. Class 6.

423,084. SCOTCH WHISKEY. H. STONE & CO., LTD., Newark, N. J.
Filed January 22, 1946. Serial No. 495,196. PUBLISHED MAY 21, 1946. Class 49.

423,085. METALIZED AND CHROMIFEROUS DYESTUFFS. AMERICAN ANILINE PRODUCTS, INC., New York, N. Y.
Filed January 23, 1946. Serial No. 495,208. PUBLISHED MAY 14, 1946. Class 6.

423,086. VITAMIN PREPARATION. THE SMITH-DORSEY COMPANY, Lincoln, Nebr.
Filed January 26, 1946. Serial No. 495,515. PUBLISHED MAY 7, 1946. Class 6.

423,087. RUM. GODDARDS, LTD., St. Thomas, V. I.
Filed January 29, 1946. Serial No. 495,604. PUBLISHED MAY 21, 1946. Class 49.

423,088. DOLLS. THREE-IN-ONE DOLL CORPORATION, New York, N. Y.
Filed January 29, 1946. Serial No. 495,637. PUBLISHED MAY 28, 1946. Class 22.

423,089. MEN'S COLOGNE. IRRESTIBLE, INC., New York, N. Y.
Filed February 6, 1946. Serial No. 496,082. PUBLISHED MAY 7, 1946. Class 6.

423,090. WIND-SHIELD WIPERS, BLADES, AND ARMS. SUN OIL COMPANY, Philadelphia, Pa.
Filed February 9, 1946. Serial No. 496,848. PUBLISHED MAY 28, 1946. Class 19.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

423,091. (CLASS 38. PRINTS AND PUBLICATIONS.) DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, Calif. Filed Dec. 17, 1941. Serial No. 449,548.



FOR BOOKLETS, BROCHURES, BULLETINS, EMPLOYEE PUBLICATIONS, ANNUAL REPORTS, TECHNICAL REPORTS, SPECIFICATIONS AND PUBLICATIONS RELATING TO AIRCRAFT AND AIRCRAFT MANUFACTURE.
Claims use since 1924.

423,092. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn. Filed Aug. 13, 1942. Serial No. 454,896.

EVENRUN

FOR ABRASIVE PAPER, ABRASIVE CLOTH, ABRASIVE BELTS, ABRASIVE BANDS, ABRASIVE DISCS, AND ABRASIVE SLEEVES.
Claims use since June 1, 1921.

423,093. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE WARREN FEATHERBONE CO., Three Oaks, Mich. Filed Oct. 29, 1942. Serial No. 456,521.

Warren's

FOR BUTTON LOOPS, FEATHERBONE STAYS, CORSET STAYS, MIDDY BRAID, MILITARY BRAID, RUG BINDING, SEAM BINDING, SHOULDER PADS, DRESSMAKERS' AND MILLINERS' WIRE, FLORAL WIRE, ANCHOR BONE, CABLEBONE, COLLARBONE, FEATHERBONE, HORSEHAIR BONE, COMBINED HORSEHAIR AND FEATHERBONE, HOOK AND EYE FEATHERBONE, QUILLBONE, SKIRTBONE, FEATHERBONE TAPE, PIPING BONE, TUNICBONE, WAISTBONE, FEATHEREDGE BRAID, FILET BRAID, LINGERIE BRAID, NOVELTY BRAID, RICK-RACK BRAID, TURTLEBACK BRAID, COLLAR SUPPORTS, COLLAR FOUNDATIONS, STOCK FOUNDATIONS, RUCHING SUPPORTS, COLLAR INTERLINING, COLLAR FRAMES, COLLAR AND RUCHING UPRIGHTS, COLLAR FLARES, HIP HOOPS, FABRIC BELTING, BONED BELTING, CRINOLETTE, HAIR CURLERS, HAIR CLASPS, BIAS FACING, LACINGS, TAPE, WEIGHTED TAPE, BIAS FOLD TAPE, BLANKET BINDING, BLOOMER ELASTIC, LINGERIE RIBBONS IN CUT LENGTHS, GARMENT, DRAPERY AND UPHOLSTERY TRIMMINGS, COTTON TAPES, METALLIC BRAID, NARROW ELASTIC, BIAS BINDINGS, BUST FORMS AND EXTENDERS, BUSTLES, HOOP-SKIRT FOUNDATIONS, AND DRESS SHIELDS.
Claims use since Jan. 1, 1930.

423,094. (CLASS 38. PRINTS AND PUBLICATIONS.) H. W. NICHOLS SALESBOOK COMPANY, Cincinnati, Ohio. Filed Feb. 24, 1943. Serial No. 458,738.

INCOME TAX MADE E-Z

FOR PUBLICATIONS PUBLISHED ANNUALLY AS AN AID TO PREPARATION OF INCOME TAX RETURNS.
Claims use since on or about Nov. 7, 1941.

423,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAT INDUSTRY SUPPLIERS, INC., Chicago, Ill. Filed June 7, 1943. Serial No. 461,197.

HEART OF SPICE

FOR SEASONINGS FOR MAKING MEAT PRODUCTS INCLUDING BARBECUE LOAF, BOLOGNA, BRAUNSCHWEIGER, FRANKFURTER, HAM SAUSAGE, LIVER SAUSAGE, MINCED HAM, PORK SAUSAGE, VEAL LOAF, WEINER AND OTHERS.
Claims use since Jan. 13, 1942.

423,096. (CLASS 37. PAPER AND STATIONERY.) SOUTHERN ADVANCE BAG & PAPER CO. INC., Bangor, Maine, and Boston, Mass. Filed Oct. 6, 1943. Serial No. 463,949.

OSAGE



FOR KRAFT PAPER.
Claims use since 1938.

423,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NESTLE-LE MUR COMPANY, New York, N. Y. Filed Jan. 14, 1944. Serial No. 466,585.

HAIRLAC

FOR FIXATIVE FOR COIFFURES.
Claims use since Dec. 9, 1943.

423,098. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOTHER HUBBARD PRODUCTS CO., also doing business as G. A. Goodrich Company, Chicago, Ill. Filed Jan. 21, 1944. Serial No. 466,765.

GOOD-N-RICH

FOR GELATIN DESSERT PREPARATIONS, PUDDING DESSERT PREPARATIONS, CAKE MIX, SOUP MIX, COCOA, PREPARED BISCUIT FLOUR, TABLE SYRUP MIX, A PREPARATION IN POWDERED FORM USED AS AN AID IN MAKING JAMS AND JELLIES, AN ICE CREAM MIX, BAKING POWDER, PREPARED PECTIN, A COCOA FLAVORED MALT EXTRACT PREPARATION FOR USE IN MILK BEVERAGE, A FLAVORING EXTRACT FOR USE IN SOUPS AND GRAVIES, AND FOOD FLAVORS IN LIQUID FORM.
Claims use since May 1921.

423,099. (CLASS 15. OILS AND GREASES.) MAGNUS CHEMICAL COMPANY, INC., Garwood, N. J. Filed Feb. 11, 1944. Serial No. 467,344.

DRI-DRAW

FOR LUBRICANT IN THE NATURE OF AN ANHYDROUS GRANULATED OR POWDERED SOAP FOR USE IN WIRE DRAWING OPERATIONS.
Claims use since Mar. 15, 1943.

423,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES G. CARROLL, doing business as Charles Carroll Company, Kansas City, Mo. Filed Mar. 6, 1944. Serial No. 467,996.

KANSAS CITY

FOR CHILI CONSISTING OF MEAT AND BEANS AND TAMALES.
Claims use since Feb. 9, 1944.

423,101. (CLASS 37. PAPER AND STATIONERY.) REYNOLDS METALS COMPANY, Richmond, Va. Filed Mar. 10, 1944. Serial No. 468,161.

ReySeal

FOR METALLIC FOIL MOUNTED ON PAPER, CARRYING A HEAT-SEALING LAYER SOLD IN ROLLS AND SHEETS.
Claims use since Jan. 26, 1944.

423,102. (CLASS 39. CLOTHING.) BERNARD'S, St. Louis, Mo. Filed Mar. 28, 1944. Serial No. 468,743.

Original Junior

BY Bernard's

FOR LADIES', MISSES' AND JUNIORS' DRESSES.
Claims use since July 1, 1932.

423,103. (CLASS 39. CLOTHING.) ELLIOT KADISON, Detroit, Mich. Filed Apr. 17, 1944. Serial No. 469,401.

Point-a-Vue

"It all depends on the point of view!"

FOR CORSETS AND BRASSIÈRES.
Claims use since Jan. 6, 1939.

423,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCKWOOD & CO., Brooklyn, N. Y. Filed May 17, 1944. Serial No. 470,351.

ROCKWOOD'S

FOR CHOCOLATE CANDY BARS, CANDY HOLLOW MOLD PIECES, AND CANDY CHOCOLATE PIECES.
Claims use since 1901.

423,105. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHWEST DISTRIBUTORS ELECTRICAL APPLIANCE CORPORATION, Wichita, Kans., now by change of name to Siebert & Willis, Inc. Filed Sept. 8, 1944. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 474,006.

Homegas

FOR LIQUEFIED PETROLEUM GAS.
Claims use since Feb. 1, 1938 and since Aug. 4, 1944 on the form illustrated.

423,106. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Oct. 11, 1944. Serial No. 475,198.

DEPT. OF HIGHER EDUCATION

FOR A HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING OF STATEMENTS APPEARING IN OTHER PUBLICATIONS AND MADE WITH SERIOUS PURPORT BUT UNINTENTIONALLY ASPERSING THE VALUE OF ADVANCED EDUCATION OR THE USEFULNESS OF INSTITUTIONS OF ADVANCED LEARNING.
Claims use since Nov. 12, 1938.

423,107. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Oct. 11, 1944. Serial No. 475,199.

RICH, BEAUTIFUL PROSE DEPT.

FOR HUMOROUS MAGAZINE COLUMN DEVOTED TO THE REPRINTING OF ITEMS WHICH HAVE APPEARED IN OTHER PUBLICATIONS AND WHICH CONTAIN DESCRIPTIONS OF SERIOUS PURPORT COUCHED IN LANGUAGE SO UNDULY FLOWERY AND PRETENTIOUS AS TO BE LUDICROUS.
Claims use since Jan. 29, 1938.

423,108. (CLASS 15. OILS AND GREASES.) WILLIAM H. BONE, doing business as Crown Products Co., Douglas, Ga. Filed Oct. 12, 1944. Serial No. 475,240.

EASEOFF

FOR PENETRATING OILS FOR LUBRICATING PURPOSES.
Claims use since Apr. 4, 1937.

423,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. S. SHERKINS, doing business as Qualified Products Co., Chicago, Ill. Filed Oct. 26, 1944. Serial No. 475,736.

Savory

FOR POTATO PANCAKE MIX.
Claims use since June 1, 1936.

423,110. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ARGUS WATCH COMPANY, New York, N. Y. Filed Nov. 14, 1944. Serial No. 476,421.

"Precise as Time Itself"

Applicant is the owner of Reg. No. 409,523.
FOR WATCHES.
Claims use since July 1, 1944.

423,111. (CLASS 39. CLOTHING.) FREDERICK-SPRIER FOOTWEAR INC., Norwalk, Conn., and New York, N. Y. Filed Nov. 18, 1944. Serial No. 476,607.

BUCKLER

FOR LADIES' AND MISSES' SHOES AND SLIPPERS MADE OF LEATHER, CANVAS, FABRIC OR COMPOSITIONS OR COMBINATIONS THEREOF.
Claims use since Oct. 23, 1944.

423,112. (CLASS 39. CLOTHING.) PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed Dec. 14, 1944. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 477,580.

Graceley

FOR LADIES' AND MISSES' COATS, DRESSES, JACKETS, BLOUSES, GLOVES MADE OF LEATHER AND FABRIC OR COMBINATIONS THEREOF, CORSETS, BRASSIÈRES, HOSIERY, SUITS, RAINCOATS, FUR COATS, UNDERWEAR, SLIPS AND HATS.
Claims use since Nov. 22, 1944.

423,113. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL E. ALLEN, Skokie, Ill. Filed Dec. 30, 1944. Serial No. 478,056.

Roll-a-Rattle

FOR TOY RATTLES.
Claims use since Dec. 15, 1944.

423,114. (CLASS 39. CLOTHING.) SOUTHWESTERN JACKET MANUFACTURING CO., San Antonio, Tex. Filed Jan. 23, 1945. Serial No. 478,937.

Southwestern

FOR NURSES' AND WAITRESSES' APRONS, CAPS, AND UNIFORMS.
Claims use since Dec. 8, 1944.

423,115. (CLASS 38. PRINTS AND PUBLICATIONS.) EDMOND J. FARRIS, Bristol, Pa. Filed Feb. 6, 1945. Serial No. 479,471.

IT'S A SCIENTIFIC FACT

FOR A CARTOON FEATURE PUBLISHED FROM TIME TO TIME IN NEWSPAPERS AND OTHER PUBLICATIONS.
Claims use since Dec. 11, 1944.

423,116. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C-Z CHEMICAL COMPANY, Beloit, Wis. Filed Feb. 14, 1945. Serial No. 479,776.

SHUR-SHINE

FOR FURNITURE POLISH.
Claims use since Feb. 10, 1939.

423,117. (CLASS 11. INKS AND INKING MATERIALS.) MARSH STENCIL MACHINE COMPANY, Belleville, Ill. Filed Feb. 21, 1945. Serial No. 480,079.

MARSH

FOR STENCIL MARKING INKS.
Claims use since Mar. 17, 1921.

423,118. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DOEHLER-JARVIS CORPORATION, New York, N. Y. Filed Feb. 27, 1945. Serial No. 480,278.



FOR METAL CASTINGS MADE OF ALL METALS CAPABLE OF BEING CAST.
Claims use since Feb. 19, 1945.

423,119. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ERIC W. KUNSEL, Santa Ana, Calif. Filed Feb. 28, 1945. Serial No. 480,328.



FOR MECHANICALLY GROOVED PHONOGRAPH RECORDS.
Claims use since Jan. 15, 1944.

423,120. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PHILIP G. MOSES, doing business as Interstate Specialties Company, Buffalo, N. Y., assignor, by mesne assignments, to Dalton Products Company, North Tonawanda, N. Y. Filed Mar. 2, 1945. Serial No. 480,421.

DEDUCTAX

FOR PAYROLL COMPUTING APPARATUS.
Claims use since Nov. 15, 1944.

423,121. (CLASS 39. CLOTHING.) PETER PAN FOUNDATIONS, INC., New York, N. Y. Filed Mar. 28, 1945. Serial No. 481,425.

Sweet n' Low

FOR BRASSIÈRES.
Claims use since Mar. 15, 1945.

423,122. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTYPE, INCORPORATED, Chicago, Ill. Filed Mar. 30, 1945. Serial No. 481,517.

ARTYPE

FOR TRANSPARENT ADHESIVE BACKED PAPER UPON WHICH IS PRINTED LETTERS AND NUMERALS IN VARIOUS SIZES AND STYLES, AND USED IN CONNECTION WITH ADVERTISING LAYOUTS.
Claims use since Dec. 1, 1944.

423,123. (CLASS 39. CLOTHING.) MILLER BROS. HAT CO. INC., New York, N. Y. Filed Apr. 5, 1945. Serial No. 481,746.

Dorsey Jay

FOR MEN'S HATS.
Claims use since Mar. 26, 1945.

423,124. (CLASS 25. LOCKS AND SAFES.) CHARLES B. PERIOLAT, doing business as Colortop Manufacturing Co., Chicago, Ill. Filed Apr. 12, 1945. Serial No. 482,071.



FOR KEY BLANKS AND KEYS.
Claims use since Apr. 2, 1945.

423,125. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. ALVARO, INC., Brooklyn, N. Y. Filed Apr. 13, 1945. Serial No. 482,085.



The mark as shown in the drawing is lined to indicate the colors red and yellow.
FOR READY-MADE SANDWICHES—NAMELY, HAM SANDWICHES, BOLOGNA SANDWICHES, SALAMI SANDWICHES, PROVOLONE (A ROUND CHEESE FOOD) SANDWICHES, COPICOLLO (A MEAT PRODUCT MADE FROM PORK) SANDWICHES, AND MORTADELLA (A MEAT PRODUCT SIMILAR TO BOLOGNA) SANDWICHES.
Claims use since Mar. 20, 1945.

423,126. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HERBY POLLAK, INC., New York, N. Y. Filed Apr. 18, 1945. Serial No. 482,116.

FILIPINA

FOR HAT BRAIDS AND MILLINERY BRAIDS, ALL EMANATING FROM THE PHILIPPINE ISLANDS.
Claims use since Jan. 22, 1945.

423,127. (CLASS 39. CLOTHING.) LILLY DACHE, INC., New York, N. Y. Filed Apr. 14, 1945. Serial No. 482,135.

DACHÉ TY-ONS

FOR LADIES' HATS.
Claims use since Jan. 1, 1945.

423,128. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUNT BROTHERS PACKING COMPANY, San Francisco, Calif., now by change of name Hunt Foods, Inc. Filed Apr. 25, 1945. Serial No. 482,577.

Hunt's
SUPREME QUALITY

FOR CANNED FRUITS, CANNED FRUIT JUICES FOR FOOD PURPOSES, CANNED FISH, FRUIT BUTTERS, VINEGAR, COFFEE, TEA, CANNED BERRIES, CANNED VEGETABLE JUICES FOR FOOD PURPOSES, CANNED SHELL FISH, FRUIT PRESERVES, OLIVES, TABLE SYRUP, CANNED VEGETABLES, CANNED SOUPS, CANNED TOMATO SAUCE, PICKLES, SALAD DRESSING, PREPARED MUSTARD, PEANUT BUTTER, DRIED FRUITS, SPAGHETTI, PANCAKE AND WAFFLE FLOUR, BREAKFAST CEREALS, BREAD, DESSERT PREPARATIONS, SPICES, CANNED BABY FOOD, SALTED NUTS, OLIVE OIL, BAKING POWDER, POPCORN IN ITS NATURAL STATE, DRIED VEGETABLES, MACARONI AND CHEESE, CANNED PORK AND BEANS WITH TOMATO SAUCE, EVAPORATED MILK, GRATED CHEESE, HONEY, FLAVORING EXTRACTS FOR FOOD, CANDY, FROZEN BERRIES, VEGETABLES, FRUITS AND FISH.
Claims use since 1908 for canned fruits, canned vegetables, canned fish and fruit preserves; since September 1926 for tomato sauce; since Nov. 3, 1944, for canned fruit juices for food purposes, fruit butters, vinegar, coffee, tea, canned berries, canned vegetable juices for food purposes, canned shell fish, olives, table syrup, canned soups, pickles, salad dressing, prepared mustard and peanut butter; since Mar. 31, 1945, for dried fruits, spaghetti, pancake and waffle flour, breakfast cereals, bread, dessert preparations, spices, canned baby food, salted nuts, olive oil, baking powder, popcorn, dried vegetables, macaroni and cheese, canned pork and beans with tomato sauce, evaporated milk, grated cheese, honey, flavoring extracts for foods, candy, frozen berries, fruits, vegetables, and fish.

423,129. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT H. PRICE, doing business as Price Detergent Co., Shelton, Wash. Filed Apr. 26, 1945. Serial No. 482,641.

WHITE STRIPE
Cleaner

FOR PREPARATION FOR CLEANING HATS AND LIGHT-COLORED BRAIDS AND DECORATIONS PARTICULARLY THOSE USED ON NAVAL UNIFORMS.
Claims use since Mar. 1, 1945.

423,130. (CLASS 39. CLOTHING.) LINCOLNSFIELD MILLS CORP., Lincoln, Maine, and New York, N. Y. Filed Apr. 27, 1945. Serial No. 482,681.

Mac Intyre Tweed

FOR LADIES', MISSES', MEN'S AND BOYS' COATS AND SUITS, MADE OF WOOLEN PIECE GOODS.
Claims use since Feb. 1, 1945.

423,131. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ROSE SCHULTZ, Flushing, N. Y. Filed May 2, 1945. Serial No. 482,895.

-PIN-PINS-
BY
Roselee

FOR PINCUSHIONS.
Claims use since Mar. 5, 1945.

423,132. (CLASS 32. FURNITURE AND UPHOLSTERY.) AJAX-CONSOLIDATED COMPANY, Chicago, Ill. Filed May 7, 1945. Serial No. 483,050.

DA-LITE
CONTROL BLIND

FOR VENETIAN BLINDS.
Claims use since Apr. 2, 1945.

423,133. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WISCONSIN ACCREDITED CHEESE COMPANY, Green Bay, Wis. Filed May 8, 1945. Serial No. 483,126.

Fox Valley

FOR AMERICAN CHEESE AND SWISS CHEESE, NATURAL AND PROCESSED.
Claims use since Sept. 7, 1944.

423,134. (CLASS 39. CLOTHING.) HEARN DEPARTMENT STORES, INC., New York, N. Y. Filed May 10, 1945. Serial No. 483,178.

Penwick Hall

FOR MEN'S COATS.
Claims use since Apr. 13, 1945.

423,135. (CLASS 39. CLOTHING.) HEARN DEPARTMENT STORES, INC., New York, N. Y. Filed May 10, 1945. Serial No. 483,179.

WICKERSHAM

FOR MEN'S SUITS.
Claims use since Apr. 16, 1945.

423,136. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHAS. A. BREWER & SONS, Chicago, Ill. Filed May 11, 1945. Serial No. 483,207.

Betty Brewer

The representation of the woman's head shown is fanciful.
FOR TABLE MATS OR PADS, COMPOSED OF HEAT RESISTING MATERIAL HAVING PROTECTIVE PROPERTIES.
Claims use since Mar. 1, 1945.

423,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PITCHAL, INC., New York, N. Y. Filed May 15, 1945. Serial No. 483,384.

PITCHAL'S PEAK
The Peak of Quality and Flavor

FOR DRESSED POULTRY PRODUCTS—NAMELY, CHICKENS, TURKEYS, DUCKS AND OTHER FOWL.
Claims use since Apr. 24, 1945.

423,138. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JACK BARDON, doing business as Manhattan Jewelry Center, New York, N. Y. Filed May 29, 1945. Serial No. 483,889.

MANHATTAN

FOR JEWELRY FOR PERSONAL WEAR OR ADORNMENT NOT INCLUDING WATCHES.
Claims use since Apr. 14, 1944.

423,139. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 30, 1945. Serial No. 483,966.

Steelcord

FOR PNEUMATIC TIRES AND TUBES.
Claims use since Apr. 27, 1945.

423,140. (CLASS 39. CLOTHING.) JANE ENGEL, INC., New York, N. Y. Filed June 5, 1945. Serial No. 484,164.

"Expandable"

FOR WOMEN'S DRESSES, SUITS, OUTER SKIRTS, BLOUSES, NIGHTGOWNS, PAJAMAS, SLIPS, BRASSIÈRES, FOUNDATION GARMENTS, CORSETS, GIRDLES, PANTIES, AND GARTER BELTS.
Claims use since May 17, 1945.

423,141. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PARA MANUFACTURING CO., INC., Newark, N. J. Filed June 7, 1945. Serial No. 484,272.

Paron

FOR SHOWER CURTAINS, AND MATCHING WINDOW DRAPES AND SHOWER CURTAINS SOLD TOGETHER AS A UNIT.
Claims use since Apr. 25, 1945.

423,142. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EMANUEL ROSEN, doing business as Kleen Manufacturing Company, Chicago, Ill. Filed June 7, 1945. Serial No. 484,275.

SUPER KLEEN

"Removes the grease and grime
As quickly as you read this rhyme"

FOR PREPARATION FOR CLEANING BATHROOM FIXTURES, WOODWORK, TILE, MARBLE, ENAMELED AND PAINTED SURFACES, WINDOWS, MIRRORS, LINOLEUMS, POTS AND PANS, DISHES, RUGS, CLOTHING, AND HAVING INCIDENTAL PROPERTIES, FOR REMOVING STAINS FROM THE HANDS.
Claims use since Mar. 13, 1945.

423,143. (CLASS 38. PRINTS AND PUBLICATIONS.) DA CAPO MUSIC PUBLISHING CORPORATION, New York, N. Y. Filed June 9, 1945. Serial No. 484,339.

World Wide MUSIC OF THE MONTH

FOR A MUSICAL MAGAZINE ISSUED MONTHLY.
Claims use since May 21, 1945.

423,144. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) VOGUE LUGGAGE COMPANY, San Francisco, Calif. Filed June 12, 1945. Serial No. 484,472.

VOGUE

FOR LUGGAGE—NAMELY, SUITCASES, MAKE-UP CASES AND HAT AND SHOE BOXES.
Claims use since Oct. 16, 1935.

423,145. (CLASS 39. CLOTHING.) SOL SHERMAN, doing business as Sherman Bows, New York, N. Y. Filed June 16, 1945. Serial No. 484,642.

BIGGY

FOR NECKTIES AND BOW TIES.
Claims use since May 2, 1945.

423,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER ALOFF, doing business as Chicago Packing Company, Chicago, Ill. Filed June 20, 1945 Serial No. 484,773.

OCEAN MINNIES

FOR SMOKED DRIED BONELESS FISH.
Claims use since June 1, 1945.

423,147. (CLASS 39. CLOTHING.) GOLDSTEIN MILLINERY COMPANY, Chicago, Ill. Filed June 26, 1945. Serial No. 485,048.

ken blair

FOR LADIES' HATS.
Claims use since May 1, 1945.

423,148. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL E. ALLEN, Chicago, Ill. Filed June 30, 1945. Serial No. 485,255.

Ring-a-Rattle

FOR TOY RATTLES.
Claims use since Feb. 19, 1945.

423,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY A. SIMON, doing business as La Floreal Parfum Sales Company, Hollywood, Calif. Filed July 7, 1945. Serial No. 485,547.

Bath Set
REFRESHINGLY YOURS

FOR COSMETIC AND TOILET PREPARATIONS—NAMELY, A BUBBLE BATH PREPARATION, BATH OILS, BATH POWDER, COLOGNES, SHAMPOOS, HAIR TONICS, HAIR OILS, MOUTH WASH, BATH SALTS, DENTIFRICES.
Claims use since May 9, 1945.

423,150. (CLASS 33. GLASSWARE.) CENTURY METALCRAFT CORPORATION, Chicago, Ill. Filed July 9, 1945. Serial No. 485,557.

SATINTONE

FOR FROSTED GLASSWARE—NAMELY, DISHES, BOWLS, CUPS, DRINKING GLASSES, AND VASES.
Claims use since Dec. 17, 1942.

423,151. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SHOOK BRONZE CORPORATION, Lima, Ohio. Filed July 11, 1945. Serial No. 485,703.

SHOOK BRONZE CORPORATION

FOR BABBITT METALS, BUSHING METAL AND ROUGH BUSHING STOCK.
Claims use since September 1944.

423,152. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN ROLLING MILL COMPANY, Middletown, Ohio. Filed July 18, 1945. Serial No. 485,935.

ZINCGRIP

FOR GALVANIZED IRON AND STEEL SHEETS.
Claims use since Sept. 13, 1937.

423,153. (CLASS 12. CONSTRUCTION MATERIALS.) STOR-AID, INC., New York, N. Y. Filed July 19, 1945. Serial No. 486,009.

EVERKLEEN

FOR LAMINATED PANEL FOR COLLAPSIBLE CLOSETS AND THE LIKE.
Claims use since May 1, 1945.

423,154. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LES PARFUMS DE DANA, INC., New York, N. Y. Filed July 20, 1945. Serial No. 486,045.

ANALERGIC

FOR TOILET SOAPS.
Claims use since May 29, 1945.

423,155. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CERTIFIED DRY MAT CORPORATION, New York, N. Y. Filed Aug. 1, 1945. Serial No. 486,563.

SILVERTONE
CERTIFIED FOTOTONE

Applicant is the owner to Reg. No. 184,961, 281,658, 185,297, 194,120, and 281,662.
FOR MATRIX, DRY MAT, OR BOARD USED IN STEREOTYPING AND ELECTROTYPING.
Claims use since June 28, 1943.

423,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EAST JORDAN CANNING COMPANY, East Jordan, Mich. Filed Aug. 1, 1945. Serial No. 486,569.

JORDAN

FOR CANNED FRUITS AND CANNED VEGETABLES.
Claims use since July 1926.

423,157. (CLASS 39. CLOTHING.) CURTIS FOUNDATIONS, New York, N. Y. Filed Sept. 4, 1945. Serial No. 487,930.

Curtis

FOR LADIES' FOUNDATION GARMENTS—NAMELY, CORSETS, GIRDLES, GARTER BELTS, ABDOMINAL BELTS (NOT SURGICAL), BRASSIÈRES, AND BANDEAUS.
Claims use since May 31, 1945.

423,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARLE-CHESTERFIELD MILL COMPANY, Asheville, N. C. Filed Sept. 6, 1945. Serial No. 488,025.

CHESTERFIELD

FOR STOCK AND POULTRY FEED—NAMELY, CHICK SCRATCH FEED, POULTRY DEVELOPER FEED, BROILER MASH, GROWING MASH FOR POULTRY, CALF MEAL, CALF FEED, SCRATCH FEED, STARTING MASH FOR POULTRY, EGG MASH, TURKEY DEVELOPER, EGG DEVELOPER MASH, TURKEY STARTER, PIG AND SOW RATION, HORSE RATION, HOG RATION, DAIRY RATION.
Claims use since Oct. 1, 1932.

423,159. (CLASS 12. CONSTRUCTION MATERIALS.) LUSE-STEVENSON CO., Chicago, Ill. Filed Sept. 14, 1945. Serial No. 488,466.

"RELIABLE"

FOR CORK BOARD FOR GENERAL INSULATION PURPOSES.
Claims use since 1925.

423,160. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) H. BLUMENTHAL & CO., INC., New York, N. Y. Filed Oct. 11, 1945. Serial No. 489,790.

La Mode

The drawing is lined for shading purposes only.
FOR BUTTONS AND BUCKLES, NOT MADE OF PRECIOUS METAL.
Claims use since July 1, 1925.

423,161. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANDISE CO., INC., New York, N. Y. Filed Oct. 12, 1945. Serial No. 489,879.

BESTMAID

FOR COMBS NOT MADE OF A PRECIOUS METAL.
Claims use since 1930.

423,162. (CLASS 37. PAPER AND STATIONERY.) STRAUBEL PAPER COMPANY, Green Bay, Wis. Filed Oct. 12, 1945. Serial No. 489,886.

Straubel

FOR TOILET TISSUE AND PAPER TOWELS.
Claims use since 1936.

423,163. (CLASS 39. CLOTHING.) KROYWEN COATS, New York, N. Y. Filed Oct. 20, 1945. Serial No. 490,247.

FUR-LINER

FOR REMOVABLE FUR LININGS.
Claims use since Sept. 1, 1944.

423,164. (CLASS 38. PRINTS AND PUBLICATIONS.) M. CHARLES GAINES, New York, N. Y. Filed Oct. 23, 1945. Serial No. 490,378.

Picture STORIES FROM AMERICAN HISTORY

FOR A CARTOON PERIODICAL.
Claims use since September 8, 1944.

423,165. (CLASS 39. CLOTHING.) ARNOLD KLATSKO, doing business as Arnold J. Klatt, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,591.

Robe Craft

The picture of the man shown is fanciful.
FOR MEN'S, WOMEN'S AND CHILDREN'S ROBES AND NEGLIGEES MADE OF WOOL, RAYON, COTTON, QUILTED MATERIAL AND OTHER TEXTILES.
Claims use since June 1, 1945.

423,166. (CLASS 39. CLOTHING.) ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,608.

TALLER Junior

FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,167. (CLASS 39. CLOTHING. ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,609.

TALLER Madam

FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,168. (CLASS 39. CLOTHING.) ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,610.

TALLER Mademoiselle

FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,169. (CLASS 39. CLOTHING. ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,611.

TALLER Miss

FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,170. (CLASS 39. CLOTHING.) ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,612.

TALLER Modes

FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,171. (CLASS 39. CLOTHING.) ALBERT B. WEINBERG, New York, N. Y. Filed Oct. 27, 1945. Serial No. 490,613.

TALLER Teen

FOR WOMEN'S, MISSES', AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS, AND PLAY CLOTHES—NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,172. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945. Serial No. 491,611.

Ⓐ ANZIO
GENUINE BRIAR

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

423,173. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945. Serial No. 491,612.

ANZIO Ⓐ SUPERBA

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

423,174. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945. Serial No. 491,621.

Ⓐ SALERNO
HAND CARVED

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

423,175. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ART-CRAFT BRIAR PIPE CO., Brooklyn, N. Y. Filed Nov. 15, 1945. Serial No. 491,622.

Ⓐ VESUVIO
SELECTED BRIAR

FOR SMOKING PIPES.
Claims use since Oct. 29, 1944.

423,176. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CONTINENTAL OPTICAL COMPANY, INC., Indianapolis, Ind. Filed Nov. 15, 1945. Serial No. 491,631.

EZY REDE

FOR READING GLASSES.
Claims use since Jan. 15, 1921.

423,177. (CLASS 37. PAPER AND STATIONERY.) HERMAN FARBER, New York, N. Y. Filed Nov. 15, 1945. Serial No. 491,636.



FOR CORRESPONDENCE CARDS.
Claims use since May 1945.

423,178. (CLASS 39. CLOTHING.) CARL GUTMANN & Co., New York, N. Y. Filed Nov. 15, 1945. Serial No. 491,645.

GYM-FIT

FOR MEN'S UNDERSHIRTS AND UNDERSHORTS.
Claims use since May 1, 1945.

423,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK L. IMEL, Portland, Oreg. Filed Nov. 19, 1945. Serial No. 491,835

Thomas Lucality

FOR CANNED CHICKEN TAMALES, CANNED CHILI WITH SPAGHETTI, AND CANNED NOODLES WITH CHICKEN AND GRAVY.
Claims use since September 1930.

423,180. (CLASS 39. CLOTHING.) AIKEN STORES INC., New York, N. Y. Filed Nov. 21, 1945. Serial No. 491,943.

Martha Park

FOR WOMEN'S, MISSES' AND CHILDREN'S COATS, DRESSES, SUITS, HATS, PLAYSUITS, BATHING SUITS, AND UNDERWEAR.
Claims use since Jan. 14, 1941.

423,181. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SOMERS-ERNST CO. INC., New York, N. Y. Filed Nov. 21, 1945. Serial No. 492,006.

SORET

FOR ARTICLES OF JEWELRY MADE IN WHOLE OR IN PART OF PRECIOUS METALS, WITH AND WITHOUT PRECIOUS AND SEMI-PRECIOUS STONES, VIZ., BRACELETS, BROOCHES, CHAINS, CHOKERS, COLLAR HOLDERS, CROSSES, EARRINGS, FESTOONS, FINGER RINGS, KEY CHAINS, LINK BUTTONS, LOCKETS, MONEY CLIPS, NECKLACES, PENDANTS, SCARF PINS, TIE HOLDERS, AND WEDDING RINGS.
Claims use since May 15, 1945.

423,182. (CLASS 39. CLOTHING.) ALBERT B. WEINBERG, New York, N. Y. Filed Nov. 23, 1945. Serial No. 492,115.



FOR WOMEN'S, MISSES' AND GIRLS' DRESSES, COATS, UNDERWEAR, SUITS, AND PLAY CLOTHES--NAMELY, WOMEN'S SLACKS, BATHING SUITS, CULOTTES, AND BICYCLE PANTS.
Claims use since Oct. 1, 1944.

423,183. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RUSSELL M. ANDERSON, Kansas City, Mo. Filed Nov. 26, 1945. Serial No. 492,172.

Shu-Arch-Er

FOR BASE METAL SHOE CLAMPS TO BE USED IN PLACE OF SHOE TREES.
Claims use since June 15, 1945.

423,184. (CLASS 38. PRINTS AND PUBLICATIONS.) BUSINESS PUBLISHERS INTERNATIONAL CORPORATION, New York, N. Y. Filed Nov. 30, 1945. Serial No. 492,425.

El FARMACÉUTICO

FOR MONTHLY PHARMACEUTICAL PUBLICATION.
Claims use since Jan. 1, 1925.

423,185. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO S. THEIMER, Minneapolis, Minn. Filed Dec. 3, 1945. Serial No. 492,594.

THEIMER'S

FOR OINTMENT FOR THE TREATMENT OF ECZEMA AND ACNE.
Claims use since May 31, 1945.

423,186. (CLASS 32. FURNITURE AND UPHOLSTERY.) SEALY INCORPORATED, Chicago, Ill. Filed Dec. 8, 1945. Serial No. 492,962.

Trueease

FOR MATTRESSES AND BOX SPRINGS.
Claims use since Jan. 10, 1921.

423,187. (CLASS 39. CLOTHING.) SUPREME SHOE COMPANY, INC., Los Angeles, Calif. Filed Dec. 10, 1945. Serial No. 493,029.

Miss Supreme of HOLLYWOOD

FOR LEATHER SHOES.
Claims use since Oct. 15, 1943.

423,188. (CLASS 39. CLOTHING.) SAMPSON & KATZENBERG, New York, N. Y. Filed Dec. 14, 1945. Serial No. 493,290.

SAKA

FOR LADIES' AND MISSES' BLOUSES, GILETS, COLLAR AND CUFF SETS, AND DICKIES.
Claims use since Jan. 3, 1944.

423,189. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KLENZADE PRODUCTS, INCORPORATED, Beloit, Wis. Filed Dec. 20, 1945. Serial No. 493,607.

Kleer-Mor

FOR DETERGENT OR WASHING COMPOUND FOR CLEANING MILK SEPARATORS AND LIKE MACHINERY, AND ESPECIALLY ADAPTED AND ADVANTAGEOUS FOR THE HAND-WASHING OF MILK SEPARATORS AND OTHER AND SIMILAR MACHINERY.
Claims use since July 1, 1942.

423,190. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARY MAPLE SUGAR COMPANY, INC., St. Johnsbury, Vt. Filed Jan. 2, 1946. Serial No. 494,178.

CARY'S

Applicant is the owner of Reg. No. 190,279.
FOR MAPLE SYRUP.
Claims use since June 1923.

423,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARY MAPLE SUGAR COMPANY, INC., St. Johnsbury, Vt. Filed Jan. 2, 1946. Serial No. 494,179.

Mapletown

FOR MAPLE SAP SYRUP.
Claims use since Apr. 1, 1923.

423,192. (CLASS 12. CONSTRUCTION MATERIALS.) CORNELL WOOD PRODUCTS COMPANY, Milwaukee, Wis. Filed Jan. 5, 1946. Serial No. 494,311.

Cornell

FOR LAMINATED INDUSTRIAL BOARDS AND WALLBOARDS MADE OF WOOD FIBRE AND/OR PAPER.
Claims use since December 1928.

423,193. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RATHBONE, HAIR & RIDGWAY COMPANY, Chicago, Ill. Filed Jan. 11, 1946. Serial No. 494,631.

SUPERSTRONG

FOR PALLETS, WHICH ARE LOAD-SUPPORTING PLATFORMS, BASES, PANELS OR SKIDS.
Claims use since February 1941.

423,194. (CLASS 39. CLOTHING.) WALTER P. HARRIS, doing business as Walter P. Harris & Co., New York, N. Y. Filed Jan. 24, 1946. Serial No. 495,292.

Darn-Saver

FOR HOSIERY.
Claims use since December 1925.

423,195. (CLASS 39. CLOTHING.) RIVOLI HOSIERY COMPANY, New York, N. Y. Filed Jan. 24, 1946. Serial No. 495,330.

SUPERCLEAR

FOR HOSIERY.
Claims use since July 1925.

423,196. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 11, 1946. Serial No. 496,372.

LETTER FROM PARIS

FOR A MAGAZINE COLUMN.
Claims use since Sept. 19, 1936.

423,197. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 11, 1946. Serial No. 496,373.

THE ART GALLERIES

FOR A MAGAZINE COLUMN.
Claims use since Feb. 21, 1925.

423,198. (CLASS 38. PRINTS AND PUBLICATIONS.) THE F-R PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 11, 1946. Serial No. 496,375.

NEW APARTMENTS

FOR A MAGAZINE COLUMN.
Claims use since Nov. 26, 1927.

423,199. (CLASS 39. CLOTHING.) WHITESONS, INC., New York, N. Y. Filed Feb. 23, 1946. Serial No. 497,153.

NAN WHITE

FOR LADIES', MISSES', GIRLS', AND CHILDREN'S SWEATERS, BLOUSES, JUMPERS, PINAFORES, DRESSES, SUITS, BATHING SUITS, BEACH ROBES, TENNIS SUITS, OVERALLS, SUN SUITS, HALTERS, BEACH CAPES, AND SKIRTS.
Claims use since Feb. 1, 1945.

423,200. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) M. HAUSMAN & CO., New York, N. Y. Filed Feb. 27, 1946. Serial No. 497,308.

"Old Kent"

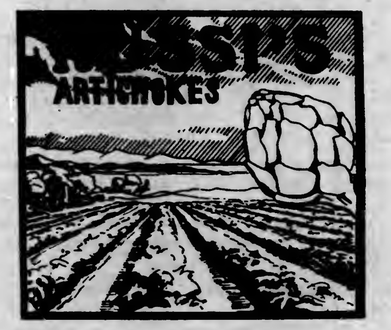
FOR RESIN USED IN CONJUNCTION WITH MUSICAL INSTRUMENTS.
Claims use since Feb. 1, 1938.

423,201. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAROLD F. CHURCHILL COMPANY, Stockton, Calif. Filed Mar. 18, 1946. Serial No. 498,397.

CHURCHILL'S

FOR FROZEN FRESH DECIDUOUS FRUITS AND VEGETABLES.
Claims use since July 1944.

423,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. B. RUSSI & COMPANY, San Francisco, Calif. Filed Mar. 26, 1946. Serial No. 499,015.



FOR FRESH ARTICHOKES.
Claims use since 1932.

TRADE-MARK REGISTRATIONS RENEWED

27,864. **MELROSE'S.** TEA. Registered Feb. 25, 1896. ANDREW MELROSE & CO. Re-renewed Feb. 25, 1946, to Melroses Limited, Edinburgh, Scotland, an organized company of Great Britain. Class 46.

28,095. **BUCKEYE.** OLEOMARGARINE. Registered Apr. 7, 1896. THE CAPITAL CITY DAIRY COMPANY. Renewed Apr. 7, 1946, to The Capital City Products Co., Columbus, Ohio, a corporation of Delaware. Class 46.

28,162. **BRACER.** CANNED TOMATOES AND TOMATO EXTRACT. Registered Apr. 21, 1896. JOSEPH CAMPBELL PRESERVE COMPANY. Re-renewed Apr. 21, 1946, to Campbell Soup Company, Camden, N. J., a corporation of New Jersey. Class 46.

46,644. **A TEXAS WONDER, ETC.** REMEDY FOR KIDNEY AND BLADDER TROUBLES AND RHEUMATIC TROUBLES. Registered Sept. 26, 1905. ERNEST W. HALL. Re-renewed Sept. 26, 1945, to Ernest B. Hall, doing business as Ernest W. Hall, St. Louis, Mo. Class 6.

49,503. **ARMY AND NAVY GAZETTE.** WEEKLY NEWSPAPER. Registered Feb. 6, 1906. W. C. & F. P. CHURCH, INCORPORATED, New York, N. Y. Re-renewed Feb. 6, 1946, to Army and Navy Journal, Incorporated, Washington, D. C., a corporation of Delaware. Class 38.

49,945. **PARKHURST.** PICKERS AND BURRING MACHINES AND ATTACHMENTS AND PARTS THEREOF, SUCH AS EMPLOYED FOR WORKING WOOL AND OTHER TEXTILE FIBERS. Registered Feb. 27, 1906. CURTIS & MARBLE MACHINE COMPANY, Worcester, Mass., a corporation of Massachusetts. Re-renewed Feb. 27, 1946. Class 23.

49,967. **ATLAS.** PICKERS AND BURRING-MACHINES AND ATTACHMENTS AND PARTS THEREOF SUCH AS EMPLOYED FOR WORKING WOOL AND OTHER TEXTILE FABRICS. Registered Feb. 27, 1906. CURTIS & MARBLE MACHINE COMPANY, Worcester, Mass., a corporation of Massachusetts. Re-renewed Feb. 27, 1946. Class 23.

50,396. **RED CROSS.** CEREAL PASTE GOODS (FOODS). Registered Mar. 13, 1906. THE JOHN B. CANEPA COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed Mar. 13, 1946. Class 46.

50,931. **"HAMMER DRY PLATE CO." AND DRAWING.** PHOTOGRAPHIC DRY PLATES. Registered Apr. 3, 1906. HAMMER DRY PLATE COMPANY. Re-renewed Apr. 3, 1946, to Hammer Dry Plate & Film Company, St. Louis, Mo., a corporation of Delaware. Class 26.

50,970. **"HANAN" ETC. AND DESIGN.** LEATHER AND CLOTH BOOTS, SHOES, AND SLIPPERS. Registered Apr. 3, 1906. HANAN & SON, Brooklyn, N. Y. Re-renewed Apr. 3, 1946, to Hanan & Son, Inc., New York, N. Y., a corporation of Delaware. Class 39.

50,974. **"INTERNATIONAL PAPER CO." AND DRAWING.** BOOK-PAPER, NEWS-PAPER, WRAPPING-PAPER, PASTEBOARD, AND OTHER PAPERS MADE WHOLLY OR PRINCIPALLY FROM WOOD-PULP. Registered Apr. 3, 1906. INTERNATIONAL PAPER COMPANY. Re-renewed Apr. 3, 1946, to International Paper Company, New York, N. Y., a corporation of New York. Class 37.

50,995. **REPRESENTATION OF A SCREW-PROPELLER. CHEMICAL COMPOUNDS FOR THE REMOVAL OF GREASE, OIL, AND SCALE FROM BOILERS AND THE PREVENTION OF THE FORMATION OF NEW SCALE, ETC. IN BOILERS.** Registered Apr. 3, 1906. THE BIRD-ARCHER COMPANY, New York, N. Y., a corporation of New Jersey. Re-renewed Apr. 3, 1946. Class 6.

51,575. **RIBBON LEAF.** PACKAGE ROLLS OF GOLD, SILVER, ALUMINUM, COMPOSITION, OR OTHER METAL LEAF. Registered Apr. 17, 1906. W. H. COE MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed Apr. 17, 1946. Class 14.

51,911. **VICTORIA.** COMBS. Registered Apr. 24, 1906. DR. HEINRICH-TRAUN & SÖHNE, Hamburg, Germany. Re-renewed Apr. 24, 1946, to S. & G. Rubber Co., Inc., Westwood, N. J., a corporation of New York. Class 40.

53,075. **"FOSTER'S" ETC. AND DRAWING.** OINTMENTS. Registered May 22, 1906. FOSTER-MCCLELLAN COMPANY. Re-renewed May 22, 1946, to Foster-McClellan Company, Buffalo, N. Y., a corporation of New York. Class 6.

53,620. **"CANTRELL & COCHRANES" ETC. AND DESIGN.** SODA-WATER. Registered June 5, 1906. CANTRELL & COCHRANE, LTD., Dublin, Ireland, and New York, N. Y. Re-renewed June 5, 1946, to Edward & John Burke, Limited, Long Island City, N. Y., a corporation of New York. Class 45.

53,747. **"EBL" AND DESIGN.** PERCUSSION-CAPS. Registered June 12, 1906. ELEY BROTHERS LIMITED, London, England. Re-renewed June 12, 1946, to I. C. I. Metals Limited, Slough, Buckinghamshire, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Class 9.

54,036. **GORHAM.** LEATHER PURSES AND HANDBAGS. Registered June 19, 1906. GORHAM MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Re-renewed June 19, 1946. Class 3.

54,066. **"THONET" ETC. AND DESIGN.** BENT-WOOD FURNITURE. Registered June 19, 1906. THONET BROTHERS, Vienna, Austria. Re-renewed June 19, 1946, to Thonet Brothers, Inc., New York, N. Y., a corporation of New York. Class 32.

54,077. **GORHAM.** UMBRELLAS AND PARASOLS. Registered June 19, 1906. GORHAM MANUFACTURING COMPANY, Providence R. I., a corporation of Rhode Island. Re-renewed June 19, 1946. Class 41.

54,087. **VALIDOL.** MEDICAMENT COMPRISING MENTHOL DISSOLVED IN THE MENTHOL-ETHER OF VALERIC ACID. Registered June 19, 1906. VEREINIGTE CHININFABRIKEN ZIMMER & Co. DES MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany. Re-renewed June 19, 1946, to The Chemical Foundation, Incorporated, New York, N. Y., a corporation of New York. Class 6.

54,579. **REPRESENTATION OF AN ARROW.** PAPER-MAKERS' FELTINGS. Registered June 26, 1906. JOSEPH PORRITT & SONS. Re-renewed June 26, 1946, to Joseph Porritt & Sons Limited, Helmshore, England, an organized company of Great Britain. Class 50.

54,709. **"GOLD SEAL 1872" ETC. AND DESIGN.** RUBBER BOOTS AND RUBBER SHOES. Registered June 26, 1906. GOODYEAR RUBBER COMPANY, New York, N. Y. Re-renewed June 26, 1946, to The Goodyear Rubber Company, Middletown, Conn., a corporation of Connecticut. Class 39.

55,235. **"CANTRELL & COCHRANE'S" ETC. AND DESIGN.** SARSAPARILLA AS A BEVERAGE. Registered Aug. 7, 1906. CANTRELL & COCHRANE LIMITED, Dublin, Ireland, and New York, N. Y. Re-renewed Aug. 7, 1946, to Edward & John Burke, Limited, Long Island City, N. Y., a corporation of New York. Class 45.

55,583. **"BABY HELEN" AND DESIGN.** DOLLS. Registered Aug. 14, 1906. STRAWBRIDGE & CLOTHIER. Re-renewed Aug. 14, 1946, to Strawbridge & Clothier, Philadelphia, Pa., a corporation of Pennsylvania. Class 22.

56,083. **"RELIABLE" AND DRAWING.** SELF-RAISING PREPARED FLOUR. Registered Aug. 21, 1906. Reliable Flour Company. Re-renewed Aug. 21, 1946, to Reliable Flour Company, Inc., Boston, Mass., a corporation of Massachusetts. Class 46.

56,208. **"DR. THOMAS' ECLECTRIC" ETC. AND DRAWING.** OIL FOR EXTERNAL AND INTERNAL USE. Registered Sept. 4, 1906. FOSTER-MILBURN COMPANY, Buffalo, N. Y., a corporation of New York. Re-renewed Sept. 4, 1946. Class 6.

56,244. **"OLD COMPANY'S LEHIGH" AND DESIGN.** COAL. Registered Sept. 4, 1906. THE LEHIGH COAL & NAVIGATION COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Sept. 4, 1946. Class 1.

56,249. **STANDARD.** CONDENSED MILK. Registered Sept. 4, 1906. MICHIGAN CONDENSED MILK CO., Lansing, Mich., and New York, N. Y. Re-renewed Sept. 4, 1946, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

202,706. **POWHATAN.** DISTILLED WATER, SPRING WATER, AND NONALCOHOLIC, MALTLESS CARBONATED BEVERAGES, SOLD AS SOFT DRINKS. Registered Sept. 1, 1925. THE POWHATAN SPRING WATER CO., Bridgeport, Conn. Renewed Sept. 1, 1945, to The Rock-Powhatan Spring Water Company, Fairfield, Conn., a partnership. Class 45.

203,906. **NIAGARA.** HOSIERY, SWEATERS, COATS FOR MEN AND BOYS, AND UNDERWEAR, BOTH KNITTED AND WOVEN, AND INCLUDING UNION SUITS, SHIRTS, AND DRAWERS. Registered Sept. 29, 1925. NIAGARA OVERALL AND PANTS COMPANY, INC. Renewed Sept. 29, 1945, to Niagara Apparel Co., Inc., Buffalo, N. Y., a corporation of New York. Class 39.

205,474. **BLACK CAT.** SHOES MADE OF LEATHER, RUBBER, CANVAS, OR ANY COMBINATION OF SAME. Registered Nov. 10, 1925. HOFHEIMER BROTHERS COMPANY. Renewed Nov. 10, 1945, to Hofheimer's Inc., Norfolk, Va., a corporation of Virginia. Class 39.

208,186. **"VANITY FAIR" AND DRAWING.** CHOCOLATES AND BONBONS. Registered Jan. 19, 1926. THE NUNNALLY COMPANY, Atlanta, Ga. Renewed Jan. 19, 1946, to Fine Products Corporation, Augusta, Ga., a corporation of Georgia. Class 46.

208,580. **REPRESENTATION OF A SILHOUETTE OF A MAN IN A CHAIR.** CHAIRS, SETTEES, COUCHES, SEATS, OTTOMANS, SIDEBOARDS, CABINETS, TABLES, BEDSTEADS, MATTRESSES, BEDS, WARDROBES, DRESSING TABLES, WASH-HAND STANDS, PEDESTALS, SETS OF DRAWERS, DRESSERS, WRITING DESKS, STOOLS, FOOTSTOOLS, CUPBOARDS, WHATNOTS, BOOKCASES, HASSOCKS, AND TOWEL HORSES. Registered Feb. 2, 1926. THE BUOYANT UPHOLSTERY COMPANY LIMITED, Sandiacre, England. Renewed Feb. 2, 1946, to The Buoyant Upholstery Company Limited, Sandiacre, Nottingham, England, a corporation of Great Britain. Class 32.

208,669. **RAYOLA.** FABRIC OF SILK AND COTTON FOR SLIPS, LININGS, LINGERIE, DRAPERIES, FANCYWORK, DRESSES, HATS, SPORT SHIRTS, BED COVERINGS, AND TABLE COVERS. Registered Feb. 9, 1926. N. FLUEGELMAN & Co., INC., New York, N. Y., a corporation of New York. Renewed Feb. 9, 1946. Class 42.

208,763. **LITTLE CROW.** BUCKWHEAT AND WHEAT FLOUR, PANCAKE FLOUR, AND WHEAT FLOUR. Registered Feb. 9, 1926. LITTLE CROW MILLING COMPANY. Renewed Feb. 9, 1946, to Little Crow Milling Company, Incorporated, Warsaw, Ind., a corporation of Indiana. Class 46.

208,789. **STURDY BOY.** MEN'S AND YOUNG MEN'S CLOTHING—NAMELY, SUITS AND OVERCOATS. Registered Feb. 9, 1926. LEE J. MAY, Cairo, Ill. Renewed Feb. 9, 1946, to I. Jablow and Company, Philadelphia, Pa., a partnership. Class 39.

210,059. **"SLL" IN A MONOGRAM.** PRESERVED FRUITS. Registered May 9, 1926. INDUSTRIA MARMELLATE E CONSERVE ALIMENTARI, Voghera, Italy, a corporation of Italy. Renewed May 9, 1946. Class 46.

210,348. **POLLY PRIM.** DUSTPANS. Registered Mar. 16, 1926. PATENT NOVELTY COMPANY, INCORPORATED, Fulton, Ill., a corporation of Illinois. Renewed Mar. 16, 1946. Class 13.

210,390. **SAURER.** TRUCK AND PASSENGER AUTOMOBILES, AUTOMOBILE WHEELS, RADIATORS, CHASSIS, BODIES, AND PARTS THEREOF. Registered Mar. 16, 1926. ADOLPH SAURER, INC., New York, N. Y. Renewed Mar. 16, 1946, to Societe Anonyme Adolphe Saurer, Arbon, Switzerland, a corporation of Switzerland. Class 19.

210,847. **REPRESENTATION OF TWO BLUE LOBES. AXES AND HATCHETS.** Registered Mar. 23, 1926. KELLY AXE AND TOOL COMPANY, Charleston, W. Va. Renewed Mar. 23, 1946, to The American Fork and Hoe Company, Cleveland, Ohio, a corporation of Ohio Class 23.

211,002. **VRAISHEEN.** FABRICS MADE OUT OF ARTIFICIAL SILK (RAYON) AND COTTON, AND FOR FABRICS MADE OUT OF ARTIFICIAL SILK (RAYON) AND WOOL, AND FOR FABRICS MADE OUT OF ARTIFICIAL SILK (RAYON), WOOL AND COTTON. Registered Mar. 30, 1926. H. ERNSTBERGER & Co. Renewed Mar. 30, 1946, to H. Ernstberger, doing business as H. Ernstberger Co., New York, N. Y. Class 42.

211,013. **CONQUEST.** CANNED FRUITS AND VEGETABLES, SPICES, DRIED BEANS, COFFEE, RICE, CANNED PORK AND BEANS, AND HOMINY. Registered Mar. 30, 1926. LEWIS, HUBBARD AND COMPANY. Renewed Mar. 30, 1946, to Lewis-Hubbard Corporation, Charleston, W. Va., a corporation of West Virginia. Class 46.

211,134. **LADY ASTER.** CONDIMENTS—NAMELY, PEANUT BUTTER, OLIVES, PICKLES, CATCHUP, VINEGAR, AND CHILI SAUCE; SALAD DRESSINGS—NAMELY, MAYONNAISE; RELISH—NAMELY, A COMBINATION OF PICKLES, OLIVES, PIMIENTOS, SPICES, AND MAYONNAISE, AND RUSSIAN DRESSING; AND CERTAIN OTHER NAMED GROCERIES. Registered Apr. 6, 1926. THE STAPLES GROCERY COMPANY, INC., Richmond, Va. Renewed Apr. 6, 1946, to Consolidated Grocers Corporation, Baltimore, Md., a corporation of Maryland. Class 46.

211,245. **UNITED.** EVAPORATED MILK. Registered Apr. 6, 1926. UNITED DAIRY COMPANY, Barnesville, Ohio, a corporation of Ohio. Renewed Apr. 6, 1946. Class 46.

211,396. **"RED ROOSTER" AND DRAWING.** MALT SIRUP FOR FOOD PURPOSES. Registered Apr. 13, 1926. ELCO DISTRIBUTING CO., Chicago, Ill. Renewed Apr. 13, 1946, to Many, Blanc & Co., Inc., New York, N. Y., a corporation of Maryland. Class 46.

211,469. **"PABCO" AND DRAWING.** PREPARED FLOOR COVERINGS COMPRISING A BODY OF FIBROUS MATERIAL SATURATED WITH BITUMINOUS OR ASPHALTIC MATERIAL AND HAVING A PAINTED OR PRINTED SURFACE. Registered Apr. 13, 1926. THE PARAFFINE COMPANIES, INC., San Francisco, Calif., a corporation of Delaware. Renewed Apr. 13, 1946. Class 20.

211,828. **"GATES GLOVES" AND DRAWING.** GLOVES MADE OF LEATHER, COTTON FABRIC, WOOLEN FABRIC, SILK FABRIC, AND COMBINATIONS THEREOF. Registered Apr. 20, 1926. GATES, MILLS & DRISCOLL, INC. Renewed Apr. 20, 1946, to Gates-Mills, Inc., Johnstown, N. Y., a corporation of New York. Class 39.

212,032. **"SILKENTWEED" AND DESIGN.** SILK AND WOOL PIECE GOODS. Registered Apr. 27, 1926. SUSQUEHANNA SILK MILLS. Renewed Apr. 27, 1946, to Susquehanna Mills, Inc., New York, N. Y., a corporation of New York. Class 42.

212,052. **"GLUVTEX".** SILK UNDERWEAR AND GLOVES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. Registered Apr. 27, 1926. GLUVSILK UNDERGARMENT CO. INC. Renewed Apr. 27, 1946, to Gluvtex Corporation, New York, N. Y., a corporation of New York, Class 39.

212,173. **BOON'S CHOCOLATE HAILSTONES.** CHOCOLATE CONFECTIONERY FOR EATING, DRINKING, OR COOKING. Registered Apr. 27, 1926. W. J. BOON & COMPANY. Renewed Apr. 27, 1946, to Promena Boon & Comp. C. V., Wormerveer, Netherlands, a firm. Class 46.

212,756. **MARIE DE MEDICIS ORIGINAL ROSE OIL.** HAIR OILS. Registered May 11, 1926. MICHAEL M. LERNER, doing business as Marie de Medicis Company. Renewed May 11, 1946, to Abram S. Lerner, Philadelphia, Pa. Class 6.

212,771. **FLAKO.** STOCK AND POULTRY FEED. Registered May 11, 1926. THE CORNO MILLS COMPANY, St. Louis, Mo. Renewed May 11, 1946, to The Borden Company, New York, N. Y., a corporation of New Jersey. Class 46.

212,961. **GLADIATOR.** LEAD PENCILS. Registered May 18, 1926. J. S. STAEDTLER, INC., New York, N .Y., a corporation of New York. Renewed May 18, 1946. Class 37.

212,962. **MULTATOR.** LEAD PENCILS. Registered May 18, 1926. J. S. STAEDTLER, INC., New York, N. Y., a corporation of New York. Renewed May 18, 1946. Class 37.

212,963. **GLOBETROTTER.** LEAD PENCILS. Registered May 18, 1926. J. S. STAEDTLER, INC., New York, N. Y., a corporation of New York. Renewed May 18, 1946. Class 37.

212,964. **TIMES.** LEAD PENCILS. Registered May 18, 1926. J. S. STAEDTLER, INC., New York, N. Y., a corporation of New York. Renewed May 18, 1946. Class 37.

213,022. **SAFEWAY.** BINDERS OR FILES AND HAND PUNCHING DEVICES. Registered May 18, 1926. MODERN OFFICE DEVICES, INC., New York, N. Y. Renewed May 18, 1946, to Modern Office Devices, Inc., Franklin Square, N. Y., a corporation of Delaware. Class 37.

213,361. **REPRESENTATION OF SIX PARALLEL LINES. BREAD.** Registered May 25, 1926. CAROLINA BAKING COMPANY, Charlotte, N. C. Renewed May 25, 1946, to Columbia Baking Company, Wilmington, Del., a corporation of Delaware. Class 46.

213,569. **"KKK" AND DESIGN.** FOOD FLAVORING EXTRACTS. Registered June 1, 1926. KKK MEDICINE COMPANY, Keokuk, Iowa, a corporation of Iowa. Renewed June 1, 1946. Class 46.

213,661. **"RAT-TOX" AND DESIGN.** RODENT EXTERMINATOR. Registered June 1, 1926. THE TOLEDO REX SPRAY COMPANY, Toledo, Ohio, assignor to Rex Research Corporation. Renewed June 1, 1946, to Rex Research Corporation, Toledo, Ohio, a corporation of Delaware. Class 6.

213,923. **TRUSOFT.** COFFEE. Registered June 8, 1926. NASH COFFEE COMPANY. Renewed June 8, 1946, to Nash-Finch Company, Minneapolis, Minn., a corporation of Delaware. Class 46.

213,930. **S80.** PERFUMES AND TOILET WATERS. Registered June 8, 1926. SOCIETE ANONYME D'ONGE. Renewed June 8, 1946, to Société Cadum, Courbevoie, France, a societe anonyme of France. Class 6.

214,345. **PATROL.** HOT-WATER HEATERS, WATER-STORAGE HEATERS, GAS HEATING SYSTEMS, HEATING COILS, BURNERS, VALVES, THERMOSTAT DEVICES, PIPE FITTINGS FOR USE IN CONNECTION THEREWITH, AND HEAT-INSULATING COVERS FOR BOILERS. Registered June 22, 1926. THE CLEVELAND HEATER COMPANY. Renewed June 22, 1946, to The Patrol Valve Company, Cleveland, Ohio, a corporation of Ohio. Class 34.

214,397. **SPINRAY.** ARTIFICIAL SILK WASTE, ALSO KNOWN AS RAYON WASTE. Registered June 22, 1926. E. W. DUTTON INC. Renewed June 22, 1946, to E. W. Dutton, New York, N. Y. Class 1.

214,557. **WURLITZER.** CERTAIN NAMED MUSICAL INSTRUMENTS AND PARTS THEREOF, VIOLIN BOWS, AND STRINGS FOR MUSICAL INSTRUMENTS. Registered June 29, 1926. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio. Renewed June 29, 1946, to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation of Ohio. Class 36.

214,614. **"CONSOLIDATED" AND DESIGN.** ELECTRIC BATTERIES. Registered June 29, 1926. CONSOLIDATED BATTERY COMPANY, Buffalo, N. Y., and Philadelphia, Pa. Renewed June 29, 1946, to National Battery Company, St. Paul, Minn., a corporation of Delaware. Class 21.

214,664. **SNOWBIRD.** COMBINED CLOTHESLINES AND REELS THEREFOR. Registered June 29, 1926. PATENT NOVELTY COMPANY, INCORPORATED, Fulton, Ill., a corporation of Illinois. Renewed June 29, 1946. Class 24.

214,749. **PIONEER SPECIAL PACK.** FRESH DECIDUOUS FRUITS AND FRESH GRAPES. Registered July 6, 1926. THE PIONEER FRUIT COMPANY, San Francisco, Calif. Renewed July 6, 1946, to Lambert Marketing Company, Sacramento, Calif., a corporation of California. Class 46.

214,779. **BLUE MEDAL.** COFFEE. Registered July 6, 1926. NASH COFFEE COMPANY. Renewed July 6, 1946, to Nash-Finch Company, Minneapolis, Minn., a corporation of Delaware. Class 46.

214,943. **"SLEEPY-HEAD" ETC. AND DRAWING.** MATTRESSES. Registered July 6, 1926. SOUTHERN BEDDING COMPANY, INC., Lexington, Ky., a corporation of Kentucky. Renewed July 6, 1946. Class 32.

215,161. **STANTEX.** LAUNDRY PADS MANUFACTURED FROM WOOL AND HAIR FELT WITH A BURLAP CENTER, FOR FLAT-WORK IRONERS, PRESS MACHINES, AND CLOTHES PRESSERS, AND COTTON NETS FOR LAUNDRY PURPOSES. Registered July 13, 1926. JOHN T. STANLEY CO., INC., New York, N. Y., a corporation of New York. Renewed July 13, 1946. Class 24.

215,198. **ALL-IN-ONE.** ACCOUNT BOOKS. Registered July 13, 1926. ALFRED GEORGE BLUNDEN, London, England. Renewed July 13, 1946. Class 37.

215,239. **REPRESENTATION OF A GOLFER.** GOLF CLUBS, AND GOLF BALLS. Registered July 13, 1926. HILLERICH & BRADSBY CO., Louisville, Ky., a corporation of Kentucky. Renewed July 13, 1946. Class 22.

215,482. **"VICTORY" AND DRAWING.** CERTAIN NAMED SOFT DRINKS AND SIRUPS AND EXTRACTS FOR PREPARING SAME. Registered July 20, 1926. GEORGE W. PEVERLY, doing business as George H. Peverly Co., Pacoima, Calif. Renewed July 20, 1946, to George W. Peverley, San Francisco, Calif. Class 45.

215,543. **MERCUROCHROME—220 SOLUBLE.** ANTISEPTICS, GERMICIDES, AND BACTERICIDES. Registered July 20, 1926. HYNSON, WESTCOTT & DUNNING. Renewed July 20, 1946, to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland. Class 6.

215,563. **LO-SKORE.** GOLF CLUBS AND GOLF BALLS. Registered July 20, 1926. HILLERICH & BRADSBY CO., Louisville, Ky., a corporation of Kentucky. Renewed July 20, 1946. Class 22.

215,593. **OAMCO.** CERTAIN NAMED REFLECTORS FOS USE AS FIXTURE UNITS FOR LIGHTING OF BUILDINGS AND STREETS. Registered July 20, 1926. OVERBAGH & AYRES MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed July 20, 1946. Class 34.

215,605. **"A" ETC.** WOMEN'S SHOES OF LEATHER AND FABRIC. Registered July 20, 1926. D. ARMSTRONG & CO., INC., Rochester, N. Y., a corporation of Massachusetts. Renewed July 20, 1946. Class 39.

215,631. **STUE BING.** LIFTING TRUCKS AND LOADING PLATFORMS USED IN CONNECTION WITH LIFTING TRUCKS. Registered July 20, 1926. THE STUEBING TRUCK COMPANY, Cincinnati, Ohio. Renewed July 20, 1946, to The Yale & Towne Manufacturing Company, New York, N. Y., a corporation of Connecticut. Class 19.

215,664. **WHIZ.** LEATHER AND RUBBER BOOTS AND SHOES. Registered July 20, 1926. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y., a corporation of New York. Renewed July 20, 1946. Class 39.

215,675. **HERA.** PURELY VEGETABLE COMPOUND RECOMMENDED AS A TONIC, REGULATOR, AND INVIGORATOR TO THE FEMALE ORGANS. Registered July 20, 1926. S. B. GOFF & SONS, Co., Camden, N. J. Renewed July 20, 1946, to Kemp and Lane, Inc., Le Roy, N. Y., a corporation of New York. Class 6.

215,774. **EAT-MOR.** PEANUT BUTTER, PREPARED MUSTARD, AND TOMATO CATCHUP. Registered July 27, 1926. THE UNION FOOD PRODUCTS Co., Greenville, Ohio, a corporation of Ohio. Renewed July 27, 1946. Class 46.

215,809. **WOCO.** DOORS AND PANELS. Registered July 27, 1926. THE WHEELER, OSGOOD COMPANY, Tacoma, Wash., a corporation of Washington. Renewed July 27, 1946. Class 12.

215,845. **PARAMOUNT.** CANNED AND PICKLED FRUITS AND VEGETABLES. Registered July 27, 1926. VICTOR PRESERVING CO., Ontario, N. Y., a corporation of New York. Renewed July 27, 1946. Class 46.

215,885. **MORRAMIN.** MEDICINAL ALTERATIVE AND RECONSTRUCTIVE TONIC FOR NERVOUS DEBILITY, ANÆMIA, LACK OF APPETITE, MALNUTRITION, AND DISORDERS DUE TO EXHAUSTED CONDITION OF THE SYSTEM. Registered July 27, 1926. JOHN WYETH & BROTHER, INCORPORATED. Renewed July 27, 1946, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Class 6.

215,894. **FEMME DU JOUR.** PERFUMES, TOILET WATERS, FACE LOTIONS, FACE CREAMS, FACE POWDERS, ROUGES, AND LIPSTICK. Registered July 27, 1926. LIONEL TRADING CO. INC. Renewed July 27, 1946, to Parfums Corday, Inc., New York, N. Y., a corporation of New York. Class 6.

216,053. **"DE SOTO" AND DRAWING.** CERTAIN NAMED CANNED BERRIES, FRUITS, VEGETABLES, AND SEA FOODS; CANNED SOUP, CHILE CON CARNE, AND SPAGHETTI; CONDENSED MILK, CORN AND MAPLE SIRUPS, DRIED PRUNES, APRICOTS, AND PEACHES; CERTAIN NAMED CONDIMENTS; PICKLES, JAMS, JELLIES, PEANUT BUTTER, ROLLED OATS, AND CORN FLAKES. Registered Aug. 3, 1926. THE HASSENDEUBEL GROCERY COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Aug. 3, 1946. Class 46.

216,056. **CALLOID.** FOOD FLAVORING. Registered Aug. 3, 1926. THE MAYBORN FOOD PRODUCTS Co., Cleveland, Ohio, a corporation of Ohio. Renewed Aug. 3, 1946. Class 46.

216,200. **BONNIE BABE.** DOLLS. Registered Aug. 3, 1926. GEO. BORGFELDT & CO. Renewed Aug. 3, 1946, to Geo. Borgfeldt Corporation, New York, N. Y., a corporation of New York. Class 22.

216,287. **"HOOVER" ETC. AND DRAWING.** ELECTRIC SUCTION SWEEPERS. Registered Aug. 10, 1926. THE HOOVER COMPANY, North Canton, Ohio, a corporation of Ohio. Renewed Aug. 10, 1946. Class 21.

216,763. **"GOFF'S" AND PORTRAIT.** WHITE PINE AND TAR COMPOUND, BITTERS, COUGH SIRUP, WORM SIRUP, LINIMENT FOR MAN AND BEAST, SUGAR-COATED LAXATIVE PILLS, KIDNEY PILLS, LAXATIVE PILLS, SALVE, AND INDIGESTION AND LAXATIVE TONIC. Registered Aug. 17, 1926. S. B. GOFF & SONS Co., Camden, N. J. Renewed Aug. 17, 1946, to Kemp and Lane, Inc., Le Roy, N. Y., a corporation of New York. Class 6.

216,837. **STA-PAK.** RADIATOR VALVES, HOT-WATER VALVES, STEAM VALVES, VALVES FOR PRESSURE AND EXPANSION SYSTEMS, AND VALVES FOR STEAM, VAPOR, AND VACUUM INSTALLATIONS. Registered Aug. 24, 1926. CAPITOL BRASS WORKS. Renewed Aug. 24, 1946, to Bohn Aluminum and Brass Corporation, Detroit, Mich., a corporation of Michigan. Class 13.

216,979. **NU-GRIP.** HEEL LINERS FOR SLIPPERS OR PUMPS. Registered Aug. 24, 1926. SCHOLL MANUFACTURING COMPANY, INC. Renewed Aug. 24, 1946, to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York. Class 39.

216,986. **"BEN-HUR" AND DRAWING.** COFFEE, TEA, FLAVORING EXTRACT FOR FOODS, SPANISH SEASONINGS, SPICES, CURRY POWDER, PAPRIKA, CELERY SALT, ONION SALT, AND GARLIC SALT. Registered Aug. 24, 1926. JOANNES CORPORATION. Renewed Aug. 24, 1946, to Ben-Hur Products, Inc., Los Angeles, Calif., a corporation of Delaware. Class 46.

217,107. **"ALPINE" AND DRAWING.** LOTION FOR CHAPPED HANDS, FACE, AND LIPS, ROUGHNESS OR IRRITATION OF THE SKIN, AND FOR TAN, SUNBURN, AND FRECKLES. Registered Aug. 24, 1926. JAMES L. CASE, doing business as Richards & Case, East Boston, Mass. Renewed Aug. 24, 1946. Class 6.

217,146. **"DECO" AND DESIGN.** COTTON GOODS IN THE PIECE. Registered Aug. 24, 1926. WINNE & SUTCH COMPANY, Los Angeles, Calif., a firm. Renewed Aug. 24, 1946. Class 42.

217,149. **BLACK EAGLE.** COAL. Registered Aug. 24, 1926. SAINT LOUIS AND O'FALLON COAL COMPANY, St. Louis, Mo., a corporation of Illinois. Renewed Aug. 24, 1946. Class 1.

217,178. **CLASSICS.** CIGARS. Registered Aug. 24, 1926. CUESTA, REY AND COMPANY, Tampa, Fla., a corporation of Florida. Renewed Aug. 24, 1946. Class 17.

217,239. **BOOSTER.** DOMESTIC AND POCKET KNIVES, COMMERCIAL AND TRADE KNIVES, HAIR CLIPPERS, RAZORS, AND SCISSORS. Registered Aug. 31, 1926. WESTER BROS. Renewed Aug. 31, 1946, to Herbert Wester, doing business as Wester Bros., New York, N. Y. Class 23.

217,283. **"GAUNTLET" AND DRAWING.** BIRDSEED. Registered Aug. 31, 1926. EUGENE W. DURKEE, doing business as E. R. Durkee & Co., Elmhurst, N. Y. Renewed Aug. 31, 1946, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Class 46.

217,375. **W G Y.** CERTAIN NAMED CANNED FRUITS, VEGETABLES, SEA FOODS, AND SOUPS; SPICES, INCLUDING ALLSPICE, CLOVES, PAPRIKA, PEPPER; MUSTARD, EVAPORATED MILK, CHILE CON CARNE, AND OTHER CERTAIN NAMED FOOD PRODUCTS. Registered Aug. 31, 1926. JONATHAN LEVI CO., INC., Schenectady, N. Y. Renewed Aug. 31, 1946, to Jonathan Levi Co., Inc., Albany, N. Y., a corporation of New York. Class 46.

217,430. **"BETTER GRADE" AND DESIGN.** SHEETS, PILLOW CASES, BEDSPREADS, COTTON AND WOOLEN FLANNELS; TOWELS, DIAPERS, AND BLANKETS OF TEXTILE FABRICS. Registered Aug. 31, 1926. SCHINDEL-MCDANIELS COMPANY. Renewed Aug. 31, 1946, to Schindel-McDaniels Co., Inc., New York, N. Y., a corporation of New York. Classes 42 and 39.

217,491. **REPRESENTATION OF A RED OVAL.** PERIODICAL. Registered Aug. 31, 1926. THE REGISTER AND TRIBUNE COMPANY, Des Moines, Iowa, a corporation of Iowa. Renewed Aug. 31, 1946. Class 38.

217,519. **TALCOTT.** BELT HOOKS OR FASTENERS. Registered Aug. 31, 1926. W. O. & M. W. TALCOTT, INCORPORATED, Providence, R. I., a corporation of Rhode Island. Renewed Aug. 31, 1946. Class 13.

217,556. **"BAR HARBOR" AND DRAWING.** WOOLENS—PIECE GOODS. Registered Sept. 7, 1926. LUDWIG F. HUG, New York, N. Y. Renewed Sept. 7, 1946. Class 42.

217,612. **EDEN.** HOSIERY. Registered Sept. 7, 1926. GENERAL HOSIERY COMPANY, Fort Wayne, Ind. Renewed Sept. 7, 1946, to Gotham Hosiery Company, Inc., New York, N. Y., a corporation of Delaware. Class 39.

217,631. **LADY MAY.** LADIES' HATS. Registered Sept. 7, 1926. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo. Renewed Sept. 7, 1946, to The May Department Stores Company, New York, N. Y., a corporation of New York. Class 39.

217,683. **U-TELL-M.** CERTAIN NAMED CANNED BERRIES, FRUITS, VEGETABLES, AND SEA FOODS; CANNED SOUP, CHILI CON CARNE, AND SPAGHETTI; CONDENSED MILK, CORN AND MAPLE SIRUPS, DRIED PRUNES, APRICOTS, AND PEACHES; CERTAIN NAMED CONDIMENTS; PICKLES, JAMS, JELLIES, PEANUT BUTTER, ROLLED OATS, AND CORN FLAKES. Registered Sept. 7, 1926. HASSENDEUBEL GROCERY COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed Sept. 7, 1946. Class 46.

217,684. **"HERRMANN BROS. CO." AND DRAWING.** MALT SIRUPS. Registered Sept. 7, 1926. HERRMANN BROS. COMPANY. Renewed Sept. 7, 1946, to Edward J. Herrmann, doing business as Herrmann Bros. Company, Detroit, Mich. Class 48.

217,700. **"ARMSTRONG" AND DRAWING.** CERTAIN NAMED CEMENTS AND PUTTIES, CALKING COMPOUNDS, AND A COMPOSITION IN THE FORM OF A PLASTIC LUTE FOR STOPPING THE FLOW OF METAL IN FOUNDRY OPERATIONS. Registered Sept. 7, 1926. THE ARMSTRONG COMPANY, Detroit, Mich., a corporation of Michigan. Renewed Sept. 7, 1946. Class 12.

217,752. **TINTOGRAVURE.** WALL CALENDARS, NEWSPAPERS, PRICE LISTS, AND GREETING CARDS. Registered Sept. 7, 1926. BROWN & BIGELOW, St. Paul, Minn., a corporation of Minnesota. Renewed Sept. 7, 1946. Class 38.

217,760. **"MIKE CHEMAS" AND PORTRAIT.** PICKLED TURNIPS. Registered Sept. 7, 1926. MIKE CHEMAS, Humboldt, Ariz. Renewed Sept. 7, 1946. Class 46.

217,762. **POLLY JUNIOR.** SHOES AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER. Registered Sept. 7, 1926. NATH'L FISHER & CO., New York, N. Y., a corporation of New York. Renewed Sept. 7, 1946. Class 39.

217,773. **SAN-TOY.** HOSIERY. Registered Sept. 7, 1926. GENERAL HOSIERY COMPANY, Fort Wayne, Ind. Renewed Sept. 7, 1946, to Gotham Hosiery Company, Inc., New York, N. Y., a corporation of Delaware. Class 39.

217,868. **"CROSSED FISH" AND DRAWING.** CANNED OR PRESERVED FISH—NAMELY, SARDINES, BRISLING, OR THE LIKE. Registered Sept. 14, 1926. STAVANGER PRESERVING COMPANY AKTIESELSKAB, Stavanger, Norway, a limited company of Norway. Renewed Sept. 14, 1946. Class 46.

217,916. **WHITE SEAL.** CIDERS HAVING NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. Registered Sept. 14, 1926. DUFFY-MOTT COMPANY, INC., New York, N. Y., a corporation of New York. Renewed Sept. 14, 1946. Class 45.

218,012. **PHENOMENON.** LAWN-TENNIS RACKETS, TENNIS BALLS, TENNIS POSTS, CROQUET SETS, CRICKET BATS, AND HOCKEY STICKS. Registered Sept. 14, 1926. T. H. PROSSER & SONS LTD., London, England, a limited liability company of Great Britain. Renewed Sept. 14, 1946. Class 22.

REISSUES

AUGUST 20, 1946

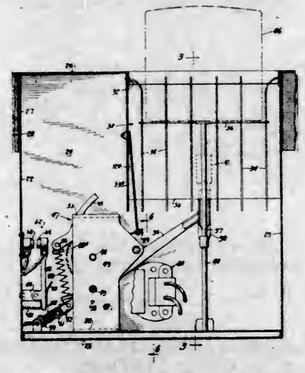
22,781

AUTOMATIC BREAD TOASTING APPARATUS

Roy J. Anderson, Chicago, Ill., assignor, by direct and mesne assignments, to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois

Original No. 2,165,204, dated July 11, 1939, Serial No. 170,065, October 20, 1937. Application for reissue July 10, 1941, Serial No. 402,556

22 Claims. (Cl. 219—19)



3. Toasting apparatus embodying therein means providing a source of heat, bread supporting means, power means operative to move said first two mentioned means relatively to provide a bread receiving position and a bread toasting position for said bread supporting means, releasable means for holding said power means against operation, and means operating upon a downward manual pressure on the bread when said bread supporting means is in its bread receiving position to actuate said releasable means to release said power means to move said two first mentioned means relatively to provide the bread toasting position for said bread supporting member.

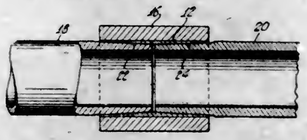
22,782

PIPE COUPLING

Ernest Wayne Rembert, Hinsdale, Ill., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Original No. 2,379,990, dated July 10, 1945, Serial No. 458,925, September 19, 1942. Application for reissue May 18, 1946, Serial No. 670,698

5 Claims. (Cl. 285—114)



1. A pipe coupling assembly comprising a rigid pipe section having an end portion smoothly tapered to have a minimum diameter at the end of the pipe, a tubular sleeve surrounding said tapered end portion, a liner in said sleeve composed of a hardened, yieldable plastic material and having a preformed taper complementary to said tapered end portion and in close sealing contact therewith, said liner terminating in a thin edge adjacent the end of the sleeve, whereby said plastic liner resists blowing upon application of pressure from within said pipe.

PLANT PATENTS

GRANTED AUGUST 20, 1946

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

709

ROSE PLANT

Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application February 6, 1945, Serial No. 576,485

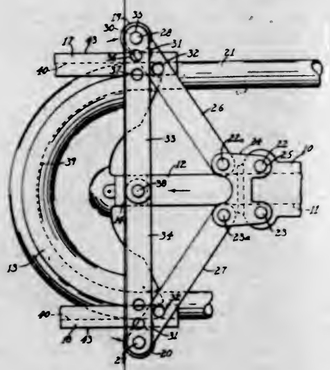
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by the increase in size of the bud and open flower over that of its seed parent; increase in vigor and uprightness of the plant over said parent, combined with longer and more slender individual flower stems and higher degree of resistance of the foliage to mildew; and by somewhat more pronounced fragrance than that of either of its parents, substantially as shown and described.

PATENTS

GRANTED AUGUST 20, 1946

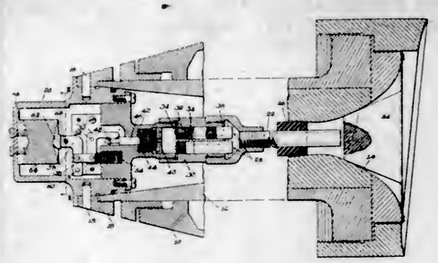
2,405,931
CONDUIT BENDER
John Herbert Abramson and Edwin C. Swanson, Rockford, Ill., assignors to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois
Application April 26, 1943, Serial No. 484,560
12 Claims. (Cl. 153—45)



1. In a bending device, the combination of a pair of elements comprising a frame member and a driven member relatively movable lineally having suitable means for so moving the same, an arcuate shoe wholly carried on and movable lineally with the driven member relative to the frame member to bring the shoe into engagement with an object to be bent at a point intermediate the ends of the arc thereof to conform the object more or less to the curvature of said shoe, a pair of cooperating bending elements adapted to initially engage the opposite side of the object to be bent at spaced points on opposite sides of the point of initial engagement of the shoe with said object, means for guiding said bending elements to move in opposite directions from said spaced points in arcs substantially following the curvature of said shoe, and means for pivotally connecting said bending elements with the frame member to support the bending elements thereon whereby to cause arcuate movement of said bending elements in response to the lineal movement of the shoe.

2,405,932
STARTING MECHANISM FOR TORPEDOES
Leon D. Alderman, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 31, 1945, Serial No. 585,864
8 Claims. (Cl. 114—20)

1. In a torpedo adapted to be released from an aircraft and containing a fuel charge arranged upon ignition to propel the torpedo, means for causing ignition of said fuel charge, a member spring-urged toward operative position for operating said ignition means, a latch holding said member in retracted position, and an inertia block

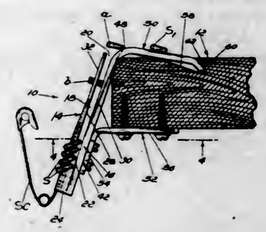


operative upon impact of the torpedo with the water for releasing said latch.

2,405,933
POLYETHYLENE FILM-FORMING COMPOSITION
Witty L. Alderson, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 12, 1944, Serial No. 530,723
5 Claims. (Cl. 260—23)

1. A composition of matter comprising in major amount a normally solid polymer of ethylene and a mixture in amount of from 0.1% to 10% by weight of said polymer, of naturally occurring fatty acid glyceride and an ester of a carboxylic acid containing at least 14 carbon atoms with an alcohol containing at least 8 carbon atoms, said mixture consisting of from 10% to 50% of said glyceride and from 90% to 50% of said ester.

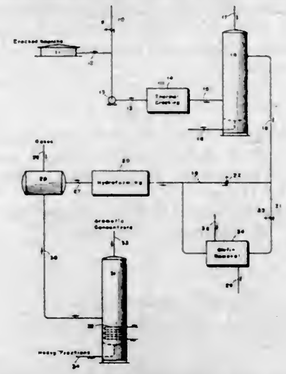
2,405,934
MEANS FOR ASSEMBLING SAFETY PINS
Harry Alfandre, Jamaica, N. Y.
Application April 25, 1944, Serial No. 532,617
9 Claims. (Cl. 163—8)



1. Means for use in assembling on a carrier a plurality of looped members which have openings defined by the loop forming portions of said members, respectively, said means comprising a holder having a slot closed at one end thereof and open

at its opposite end for providing an entrance into said slot for said looped members, said holder having a part which extends longitudinally of said slot and projects through the openings in the looped members which are disposed in said slot, said part of the holder having an outer surface provided with a longitudinally extending groove which is traversed by parts of the looped members which are disposed in said slot, said groove forming a guide for part of said carrier to guide said carrier part for movement in said groove longitudinally thereof between said traversing parts of said looped members and said part of the holder at the outer surface thereof for gathering said looped members on said carrier and removing them as a group from said holder through said open end of said slot.

2,405,935
TREATMENT OF CRACKED NAPHTHA
James A. Anderson, Jr., Goose Creek, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 16, 1943, Serial No. 514,447
4 Claims. (Cl. 260—668)

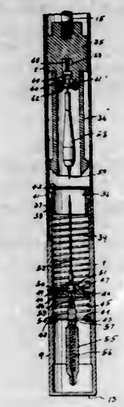


1. A process for producing aromatics from a cracked naphtha fraction boiling no lower than 150° F. and not above 350° F. comprising a mixture of naphthenes, aromatics and acyclic compounds which comprises subjecting said fraction to a thermal cracking operation to cause the cracking of substantial amounts of acyclic compounds without substantially decreasing the amount of cyclic compounds therein, separating uncondensable gases from the products of said thermal cracking operation, recovering from said thermally cracked product a fraction having substantially the same boiling range as the charge thereto, hydroforming said thermally cracked product and subsequently distilling to obtain a fraction high in aromatic content.

2,405,936
FORMIC ACID ESTERS
Edward P. Bartlett, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application November 24, 1939, Serial No. 305,929. Divided and this application December 9, 1943, Serial No. 513,639
5 Claims. (Cl. 260—488)

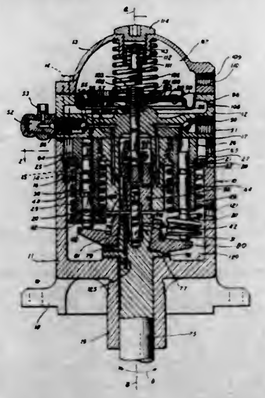
1. A process for the preparation of ethylene glycol diformate which comprises reacting ethylene glycol with a carbon monoxide in the presence of an alkali metal alkoxide catalyst at a pressure between 200 and 700 atmospheres and at a temperature between 50° and 250° C.

2,405,937
DEVIATION RECORDING DEVICE
Albert H. Beal, Houston, Tex.
Application August 21, 1944, Serial No. 550,441
2 Claims. (Cl. 33—205.5)



1. In a deviation recording device shaped to be lowered into a well and including a casing having upper and lower sections and an inside coupling connecting said sections and also having means in the lower section effective, upon operation thereof, to make a record of the inclination of a well bore, a cap closing the upper end of the upper section, said cap and coupling having aligned bearings, a rod slidable through said bearings and having its upper end extended above the cap and forming a grip, said rod having a rack face thereon, a spring seat on the rod, a coil spring around the rod between said seat and cap provided to force the rod downwardly, when the spring is placed under compression, to operate the record making means and gearing in the casing forming a timing device and geared to the rack face to retard the downward movement of the rod.

2,405,938
MULTIPLE INJECTION PUMP
Louis Beeh, Long Meadow, Mass.
Application July 18, 1944, Serial No. 545,426
7 Claims. (Cl. 103—173)



1. In a fuel injection pump comprising a plurality of pump units, each including a cylinder with reciprocatable plunger therein, the combination of a common fuel supply chamber, as many discharge valves as there are pump units

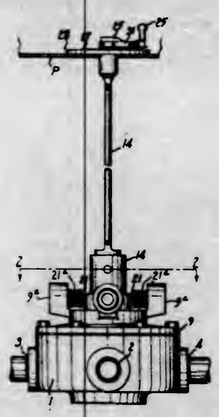
and coordinated to the latter respectively, first conduits from said supply chamber to said discharge valves respectively, a rotatable valve in controlling relationship to said conduits so as to cyclically close said conduits each during a portion of the pressure stroke of the coordinate pump unit plunger, and second conduits connecting the cylinders respectively with the coordinate first conduits at points between the rotatable valve and the discharge valves.

2,405,939
VARIABLE LEVERAGE BRAKE
Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden
Application May 24, 1943, Serial No. 488,217
In Germany May 4, 1942
7 Claims. (Cl. 188—195)



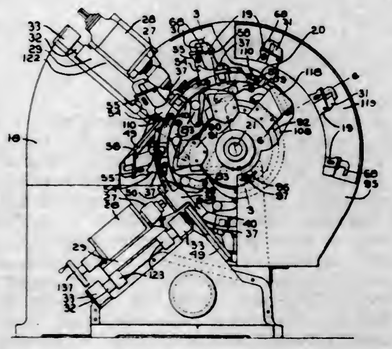
1. In a variable leverage brake for vehicles, an equipment for automatically varying the brake applying leverage in correspondence to the varying load of the vehicle, comprising a brake lever fulcrum that is shiftable to vary the brake applying leverage, means for deriving a force proportional to the vehicle weight and load, a structure comprising a spring, means for applying said force to said structure in such a manner as to flex said spring disproportionally to the force applied, and means operatively connecting said structure to said fulcrum for determining the shifting thereof.

2,405,940
SELECTOR COCK
Otto M. Burkhardt, Euclid, Ohio
Application April 14, 1943, Serial No. 483,033
9 Claims. (Cl. 251—97)



7. In a liquid control device, the combination of a valve seat, said valve seat being of conical form and having a plurality of ports therethrough, a continuous conical ring of resilient sealing material upon said valve seat, said sealing ring having an annular raised portion continuously thereabout and having apertures through said raised portion corresponding with said ports, a valve of conical form for seating upon said raised portion and having ports corresponding with those of said valve seat, means for effecting pressure of said valve upon said sealing material so as to compress said annular raised portion, means for holding said valve in adjusted position, means, actuated automatically by the initiation of the operation of said valve-adjusting means, for rendering said holding means ineffective, said valve having a stem provided with annularly arranged series of plain-faced wedge-like notches, an adjusting member rotatable in a fixed path and provided with annularly arranged companion series of plain-faced, wedge-like notches capable of inter-engaging relation to those of said valve stem, whereby initiation of the rotation of said adjusting member will release said holding means and will produce wedging action between said series of notches and thereby cause substantially straight-line movement of said valve for partially relieving the pressure of said sealing means, means for limiting such straight-line movement of said valve to a predetermined extent so as to maintain inter-engagement between said series of notches for torque transfer and so as to maintain a seal for said valve, whereby continued rotation of said adjusting member will effect rotatable adjustment of said valve without breaking the seal of said valve.

2,405,941
AUTOMATIC HEEL TURNING MACHINE
George Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio
Application October 19, 1943, Serial No. 506,871
29 Claims. (Cl. 12—87)



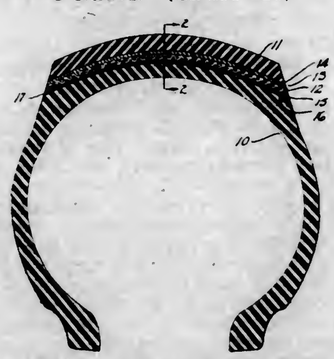
1. A heel shaping apparatus comprising a supporting frame, means on said frame for holding and translationally feeding heel blocks through a cutting zone at constant and uniform speed while confining the motion thereof to a single plane, a heel shaping tool, means for swinging said tool inward into cutting relation with the said blocks, pattern means for controlling and co-relating said inward swinging motion with said translational motion of the blocks to produce a predetermined heel shape, the inward path of travel of said tool having a predetermined course calculated to provide a predetermined speed of travel of the tool along the heel at the cutting line, and means to rock the heel block a limited amount in a plane substantially parallel to the heightwise axis of the heel being produced and to the plane of its path of travel further to control the heel shape.

2,405,942
SLIP LAST
George Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio
Application September 1, 1944, Serial No. 552,238
3 Claims. (Cl. 12—136)



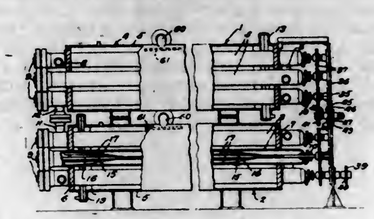
1. A collapsible slip last adapted to be inserted into a sewed shoe upper and used in the forming and lasting of the shoe, comprising in combination a toe part and a heel part separated from each other by an intermediate keystone-shaped part having matching engaging surfaces respectively with the toe and heel parts of the last, said surfaces being substantially transverse to the last and at an acute angle to the longitudinal axis of the last, a link connecting the toe part to said intermediate keystone-shaped part, a link connecting the heel part with said keystone-shaped part, the ends of the links connected to the keystone-shaped part being below a line through the opposite ends of the links when the surfaces of the parts are in their normal engaging position.

2,405,943
TIRE
Justus H. Doering, Detroit, and Russell H. McCarroll, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application March 29, 1943, Serial No. 480,926
3 Claims. (Cl. 154—14)



3. The method of applying polyvinyl compounds as recaps to worn carcasses which comprises the steps of assembling on a tire carcass in the order named, a cushioning member, a cementitious substance compatible with the cushioning member, a closely woven fabric member, a second cementitious substance, and a polyvinyl recap, said second cementitious substance comprising polyvinyl compounds dissolved in cyclohexanone, said fabric member being impregnated from one side to the center with the first mentioned cementitious substance, and being impregnated from the other side with the second mentioned cementitious substance, heating said assembly in a mold to cure said cementitious substances and bond said polyvinyl recap and said carcass to the fabric member by heat and pressure.

2,405,944
DIRECT EXPANSION CHILLER
Eugene A. Edmonds, Louisville, Ky., assignor to Henry Vogt Machine Co. Inc., Louisville, Ky., a corporation of Kentucky
Application November 20, 1943, Serial No. 511,148
4 Claims. (Cl. 62—114)

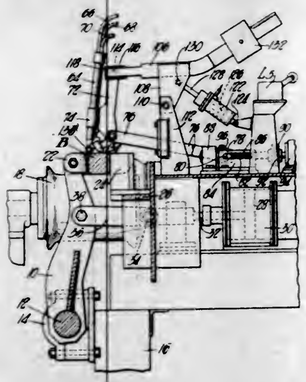


3. In a direct expansion chiller, a shell comprising a longitudinal tubular wall and spaced tube sheets to which said wall is secured, forming end closures of said shell, the latter being the evaporator of a refrigeration system, a plurality of straight tubes passing through said shell and said tube sheets, extending therebeyond, lateral connections serially connecting said tubes externally of said shell, scraper shafts journaled in bearings in said tubes, terminating within said tubes at one end of said shell beyond said lateral connections and extending beyond said tubes at the opposite end of said shell, driving means on the extended ends of said shafts, closures for the ends of said tubes adjacent said driving means, each closure having means forming a cylindrical packing chamber through which the drive shaft passes, said packing chamber having a restricted inner end of wall, a lantern gland through which said shaft passes, intermediately located in said chamber, packing within said chamber on both sides of said gland, and an axially adjustable follower extending into the outer end of said chamber in compressive relation to said packing, a drain communicating laterally with said chamber in the zone of said gland, the latter having an external circumferential channel wider than the opening of said drain whereby said channel remains in registry with said drain, regardless of longitudinal shift in the position of said gland due to compression of the packing.

2,405,945
BILLET SEVERING APPARATUS
George C. Ehemann, Jr., Edgewood, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application November 20, 1942, Serial No. 466,388
10 Claims. (Cl. 266—23)

8. In an apparatus for flame severing billets and similar workpieces: a clamp adapted to grip the workpiece; power means for actuating said clamp; means automatically controlling the operation of said power means; a flame cutting torch; a movable support therefor, a tilting member to which said support is pivotally secured; power means for controlling the tilting of said member; means responsive to the movement of said clamp for causing the power means to effect the shifting of the tilting member to thus bring the torch to cutting position; respective pipes for supplying preheating oxygen, cutting oxygen and gas to said torch; respective valves in said pipes controlling the flow of oxygen and gas to the torch; a time delay control device; means for

automatically opening the respective valves in the preheating oxygen supply and gas supply pipes and initiating the operation of said time delay control device; a forward motion control switch; a reverse motion control switch; a motor whose operation and direction of rotation is determined by the said two switches; feed means driven by said motor for advancing and retracting said torch support transversely of the workpiece; a switch and respective devices controlled thereby adapted to be actuated at the end of the forward movement of said feed means effective to throw out said forward motion control switch, stop the forward travel of said motor and said feed means, shut off said gas supply valve and actuate a valve

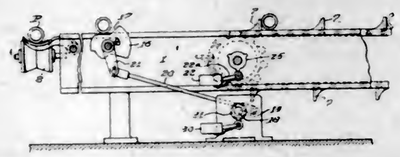


controlling the power member to cause the power member to lift the tilting member and torch carried thereby; a switch responsive to movement of said tilting member, and means controlled by the last named switch effective to release the said clamp actuating power means thus freeing the work from the grip of the clamp; other means controlled by the last named switch effective to actuate said reverse switch, and thus reverse said motor and retract said feed means; a limit switch arranged to be operated at the end of the retractive movement of said feed means; and means controlled by said limit switch for stopping the reverse motion of said motor, thus stopping the feed means at a predetermined starting position.

2,405,946
PRODUCTION OF NON-AGING STEEL
John D. Gat, Edgewood, and Saylor C. Snyder, Carnegie, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application January 6, 1943, Serial No. 471,476
9 Claims. (Cl. 148—12)

1. The production of non-aging steel bodies having predetermined structural characteristics which includes: teeming and rolling ingots down to hot-mill finished gauges; cold-reducing the resulting material at least to within temper-pass of final gauge; annealing the cold-reduced material at temperatures of recrystallization until the desired grain structure is perfected; thereafter, rapidly cooling the material to a temperature at which iron-nitride begins to precipitate; retarding the rapid cooling action within the nitride precipitation range substantially to precipitate all effective amounts of the dissolved nitride, and, then, cooling at any desired rate to room temperature.

2,405,947
ESCAPEMENT MECHANISM
Martin S. Gettig, Poland, and Harold E. Engelbaugh, Youngstown, Ohio, assignors to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio
Application April 24, 1944, Serial No. 532,420
3 Claims. (Cl. 198—23)



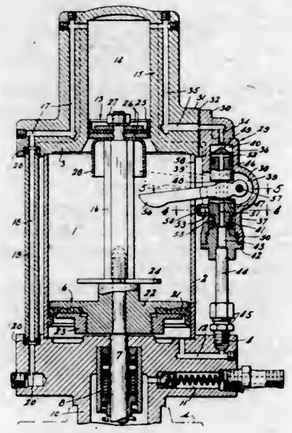
1. The combination with a chain conveyor comprising parallel shafts, sprockets mounted thereon and chains extending over the sprockets and including means forming pockets for the reception of elongated cylindrical work pieces, skids extending rearwardly from the conveyor and mechanism for consecutively delivering the pieces to the skids for passage to the conveyor, of escapement means adapted to insure proper registry of said pieces with the conveyor pockets as they reach the latter while the conveyor is in motion including a shaft paralleling the conveyor shafts, a series of dogs on said shaft projecting above the skids, each dog having a piece receiving notch and forming a stop to arrest the progress of the pieces along the skids, and means for oscillating the dog-carrying shaft in synchronism with the movement of the conveyor chains including a motor, means interconnecting the motor with the shaft, and means for intermittently energizing the motor comprising a switch and cooperative therewith a switch actuating cam driven from one of the conveyor shafts adapted to actuate the switch in timed relation with the rotation of the last mentioned shaft.

2,405,948
PREPARATION OF DIHALOALKANES AND RELATED PRODUCTS
William Franklin Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 26, 1944, Serial No. 519,736
4 Claims. (Cl. 260—659)

1. In a process for preparing dihaloalkanes the steps which comprise substantially heating 84 parts by weight of propylene with 96.5 parts of concentrated hydrochloric acid, 45 parts of formaldehyde, and 54 parts of hydrogen chloride, in a pressure-resistant reactor at 150° to 161° C. under a pressure of 200 atmospheres, said formaldehyde having been introduced into the reaction mixture initially in the form of paraformaldehyde, whereby a reaction mixture containing 1,3-dichlorobutane is formed and separating the said 1,3-dichlorobutane from the resultant reaction mixture.

2,405,949
FLUID PRESSURE MOTOR
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application June 11, 1945, Serial No. 598,775
7 Claims. (Cl. 121—152)

6. A motor, comprising, a power cylinder including a pair of heads and a barrel therebetween, a power piston reciprocable in said cylinder, a valve casing having two valve cylinders and a chamber connecting their adjacent ends, said chamber and said barrel having confronting openings, an inlet for pressure fluid into the other end of one valve cylinder, a conduit connecting



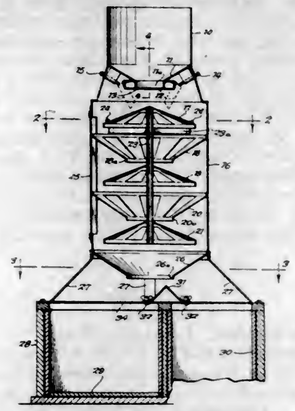
the other end of the other valve cylinder to one end of the power cylinder through one head thereof, and valve means reciprocable in said valve cylinders and having an actuating part extending laterally through said openings and into the path of the power piston.

2,405,950
PROCESS FOR POLYMERIZING OLEFINS
William Edward Hanford, Easton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 27, 1943, Serial No. 480,846
9 Claims. (Cl. 260—94)

1. In a process involving polymerization of a normally gaseous monoolefin at an elevated temperature and pressure, the step which comprises carrying on the polymerization of such a monoolefin at a temperature of from 20 to 400° C. under an elevated pressure between 150 and 3000 atmospheres in the presence of 0.001 to 5.0% by weight of a catalyst selected from the class consisting of hydrazines and hydrazinium compounds.

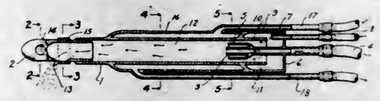
2,405,951
RANDOM SAMPLING MACHINE
George V. Herrold, Buffalo, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Application July 27, 1945, Serial No. 607,370
3 Claims. (Cl. 73—421)

1. A random sampling machine comprising, in combination, a hopper, a cylindrical mixing chamber positioned below said hopper to be fed from said hopper, said chamber having a plurality of concentric conical material-deflecting plates alternately concave upward and concave downward having staggered openings for deflecting falling material in a random manner and for preventing unimpeded fall of material therethrough, an outlet opening for said chamber, and a divider positioned in the outlet path of the opening for dividing the output in a random



manner into two batches of different size but of uniform make-up.

2,405,952
TORCH
Le Roy B. High and Jack B. Harmon, Detroit, Mich., assignors to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application November 25, 1943, Serial No. 511,660
3 Claims. (Cl. 158—13.6)



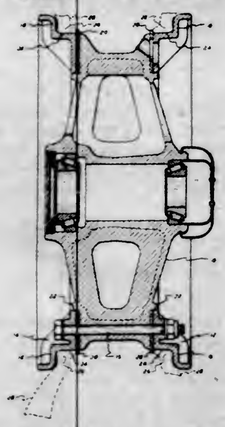
1. A torch comprising an elongated member forming a combustion chamber, one end of said member having an exhaust port therein and the other end having an air inlet opening therein, a nozzle for supplying a combustible gas under pressure extending through said air inlet opening and projecting into the said combustion chamber, a cup surrounding said gas nozzle and spaced from the side walls of said combustion chamber, said nozzle outlet being spaced from the inside wall of said cup and said cup being closed inwardly against the nozzle upstream from the nozzle outlet, means forming an air distributing chamber surrounding the air inlet opening for said combustion chamber, inlet means for supplying air under pressure into said distributing chamber and offset from the air inlet into the combustion chamber whereby the air upon flowing into the combustion chamber and by the said cup is distributed about the combustible gas nozzle whereby the gaseous mixture burns in said combustion chamber and the products of combustion are exhausted in the form of a hot gaseous jet from said exhaust outlet.

2,405,953
PROCESS FOR MANUFACTURING A CELLULOSE ESTER MOLDING BATCH HAVING A METALLIC APPEARANCE AND THE BATCH PRODUCED THEREBY
Thomas J. Hillery, Boonton, N. J., assignor to George Benda, Inc., Boonton, N. J., a corporation of New Jersey
No Drawing. Application October 2, 1943, Serial No. 504,782
5 Claims. (Cl. 106—193)

1. The process for manufacturing a batch of molding material having a lustrous metallic ap-

pearance to simulate metal when molded, which process consists in first grinding cellulose acetate as a base, then crushing said base to obtain a flaky or flourlike consistency and adding lard as binding material to give body to said base, crushing a metallic element into flake-like consistency as that of said base, then metallizing said flaky base material by intimately mixing with said flaky base the flaky metallic element to be simulated in the proportions of approximately two parts of the former to one part of the latter, to cause adherence of the metallic flake to the base flake to flow better and permeate the base material when cured in the heat molding process to simulate the solid metal of the metallic element.

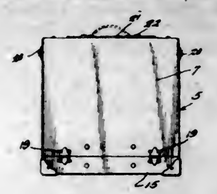
2,405,954
WHEEL
Charles Hollerith, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application March 16, 1944, Serial No. 526,699
1 Claim. (Cl. 152—381)



A drop center wheel for pneumatic tires comprising a drop center portion, annular flanges located on opposite sides of said drop center portion, annular rings piloted on said annular flanges and projecting above said drop center portion, the outer periphery of said rings being directly adjacent said drop center portion on opposite sides thereof, angular shaped annular tire retaining rim sections also piloted on said annular flanges, said rim sections having bead supporting seats adjacent said outer periphery of said rings, the outer periphery of said rings projecting radially beyond said seats to provide an abutment to support the tire beads on said seat and prevent displacement of the same into said drop center portion, and means for removably securing said rings and said rim sections on said annular flanges.

2,405,955
CARRYING CASE
Harold S. Hunt, Iowa City, Iowa
Application June 27, 1945, Serial No. 601,810
2 Claims. (Cl. 224—45)

1. A carrying case including a bottom and a pair of side sections, said side sections being constructed to form racks, and means hingedly connecting the racks to the bottom for downwardly swinging opening movement into an upright position below the bottom and adapted to support the bottom in an elevated position between the open racks, said bottom comprising a tray having a longitudinal central upstanding partition there-



in apertured to provide a hand grip for use in carrying the bottom with the side sections depending therefrom when opened.

2,405,956
BRAKE LEVER ASSEMBLY
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 5, 1944, Serial No. 548,185
12 Claims. (Cl. 74—537)

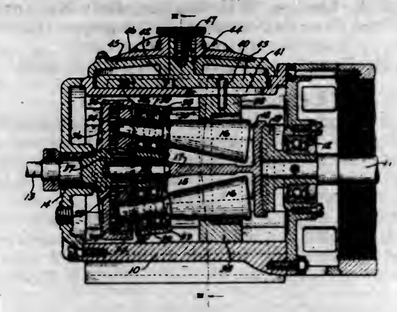


1. A brake lever assembly comprising a brake lever fulcrumed at one end and having a grip portion at its other end, a pawl on said brake lever, a ratchet member in the path of said pawl member for engagement thereby for brake setting, a setting lever fulcrumed on said brake lever and connected at one end to said pawl and being in pawl release position when said brake lever is in brake release position, a control lever fulcrumed at its outer end on the outer end of said grip portion, and interengageable means on the inner end of said control member and said setting lever which become engaged, when the grip portion and control lever are grasped by the driver for swing of the brake lever for brake setting, to move said setting lever for setting of said pawl to operative position for engagement with the ratchet sector teeth.

2,405,957
VARIABLE-SPEED TRANSMISSION
Lloyd E. Jones, Milwaukee, Wis., assignor to Graham Transmissions, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 27, 1944, Serial No. 537,627
13 Claims. (Cl. 74—281)

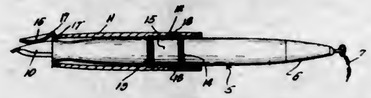
1. In a variable speed transmission, the combination of a rotary carrier, an axially movable control ring, an inclined tapered planetary roller mounted adjacent one end thereof in a bearing hinged to said carrier on a radially fixed axis,

said roller being rotatable in said bearing with and with respect to said carrier and swingable



on said hinge into contact with said ring, the swinging movements of said roller being constrained by said hinge to a radial plane.

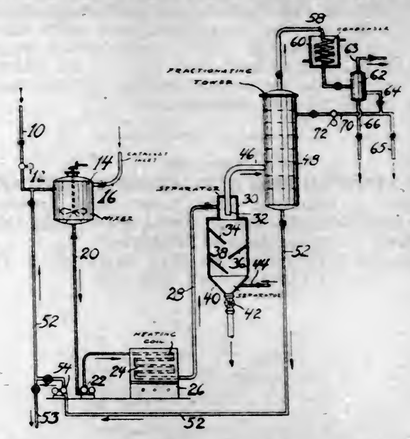
2,405,958
FOUNTAIN PEN
Joseph J. Kelley, Tucson, Ariz.
Application March 11, 1944, Serial No. 526,022
1 Claim. (Cl. 120—49)



A fountain pen comprising a fountain pen proper having a barrel and provided with a pen point at one end of said barrel, and an enclosing and protecting device for said pen point including a second barrel fitted over the outer portion of said pen barrel and having threaded engagement with the latter, whereby the pen and the second barrel may be relatively shifted longitudinally to selectively project the pen point outwardly of or retract it within said second barrel upon relative rotation of said pen and said second barrel, said threaded engagement embodying spaced external threaded portions on the pen barrel having threaded engagement in the inner end portion of said second barrel, and set screws in the second barrel cooperating with said spaced threaded portions to limit the relative longitudinal movement between the pen proper and said second barrel.

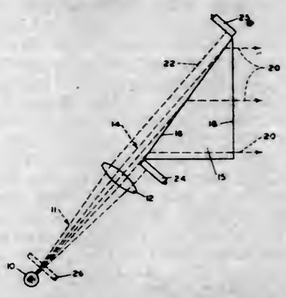
2,405,959
TREATING HYDROCARBON FLUID
Paul E. Kuhl, Madison, and Robert M. Shepardson, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 24, 1940, Serial No. 353,998
15 Claims. (Cl. 196—52)

1. A method of converting higher boiling hydrocarbons to lower boiling hydrocarbons which comprises mixing a relatively heavy hydrocarbon oil with about 38% by weight on the oil of powdered Super Filtrol in a mixing zone to form a catalyst-oil slurry, heating the slurry of oil and catalyst to an elevated temperature so that the hydrocarbon oil is substantially completely vaporized and is maintained at a conversion temperature in the presence of the Super Filtrol particles, separating vapors from catalyst particles without substantially cooling the reaction products so as to obtain a substantially dry separation, contacting the catalyst particles with a heated gas to remove residual oil from the catalyst particles,



and fractionating the vapors to separate condensate oil from relatively light hydrocarbons within the gasoline boiling range.

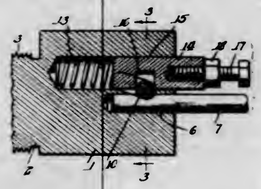
2,405,960
COLLIMATING SYSTEM
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 22, 1943, Serial No. 484,004
3 Claims. (Cl. 88—1)



1. In an optical system, a light source, and means for partially collimating light aligned therewith and receiving light therefrom and transmitting said light in partially collimated condition along a predetermined path in a predetermined direction, in combination, prism means through which said partially collimated light is transmitted in a predetermined path internally of the prism means while undergoing refraction for improving the collimation and decreasing the apparent angle of separation between the rays thereof which emanate from different points lying in the plane of collimation, said prism means having a portion which defines an entrance face joined to a portion which defines an exit face at a predetermined angular relation, said prism means positioned to have its entrance face at least partially extending across said path followed by the partially collimated light proceeding from said collimator means, and the normal to said entrance face forming an angle with the path of said partially collimated light which is slightly less than 90° to have rays of said partially collimated light intercepted by said entrance face and enter the prism means, the

exit face being inclined to the light path followed by rays within the prism means to have the rays of improved collimation and decreased angular separation emerge therefrom in a path and in a direction ranging from substantially parallel to the normal to said exit face to an angle of less than 15° to the normal of said exit face measured in the plane of collimation.

2,405,961
PULL HEAD FOR BROACHING MACHINES
Francis J. Lapointe, Ann Arbor, Mich., assignor to American Broach & Machine Co., Ann Arbor, Mich., a corporation of Michigan
Application December 18, 1943, Serial No. 514,733
5 Claims. (Cl. 279—79)



1. A pull head to receive a broach shank in which there is a transverse notch of arcuate cross section, said head having a bore to fit the shank, a slot extending transversely through the head and obliquely with respect to the axis of said bore, said slot intersecting the bore at the portion thereof which is occupied by the notch of the broach shank when said shank is inserted in working position therein and extending from said intersection divergently with respect to the inner end portion of the bore, a round locking pin in said slot dimensioned to fit the notch in the shank and movable in the slot into said intersecting portion thereof for such engagement, the ends of said pin projecting from said slot beyond the side walls of the pull head, a second bore in the pull head parallel to the first with a plunger slidable in said second bore and formed with a notch in which said locking pin is captive, together with a spring pocketed in the second bore and reacting against the plunger to urge the pin yieldingly into position for engaging the notch in the broach shank.

2,405,962
PROCESS FOR POLYMERIZING ETHYLENE
Alfred T. Larson, Wilmington, Del., and Norman W. Krase, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1942, Serial No. 434,774
4 Claims. (Cl. 260—94)

3. A continuous process for producing high tensile strength solid polymers of ethylene which comprises continuously passing ethylene into a tubular pressure-resistant vessel at a pressure of 500 to 1500 atmospheres, a temperature of 150 to 250° C. in the absence of a dispersing medium and in the presence of from 1 to 6 parts of water and 0.1 to 0.5 part, based on the weight of ethylene introduced, of a material selected from the group consisting of benzene and chlorobenzene, the ethylene containing from 30 to 150 parts per million of oxygen and continuously discharging the high tensile strength solid polymers of ethylene from the vessel.

2,405,963
CO-OXIDATION REACTION
Alfred T. Larson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 3, 1944, Serial No. 543,412
7 Claims. (Cl. 260—464)

1. A process for the synthesis of formaldehyde cyanhydrin which comprises co-oxidation of ammonia and methanol in the vapor phase in the presence of a ferric molybdate catalyst at a temperature within the range of 300° to 600° C., whereby a mixture of gaseous products is produced, cooling the said mixture at a temperature in the range of 25° to 200° C. whereby a product containing formaldehyde cyanhydrin is produced.

2,405,964
CONVERTIBLE POCKET FOR GARMENTS
Ralph Lauria, Cleveland Heights, Ohio
Application December 20, 1943, Serial No. 514,905
6 Claims. (Cl. 2—247)



1. A convertible pocket for garments comprising, in combination, a piece of material having a pocket slit, a concealed pocket permanently situated on the inner side of said piece and access to which is had through said slit, and a shiftable pocket including inner and outer walls, the top edge of the inner wall being attached to said piece on the inner side thereof above said slit so that the shiftable pocket may be projected outwardly through the slit and hang on the outer side of said piece, or inserted through the slit so as to repose within the concealed pocket.

2,405,965
POLYAMIDE EMULSIONS
Robert M. Leekley, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 3, 1942, Serial No. 445,652
17 Claims. (Cl. 260—29)

1. A process for making an aqueous emulsion of synthetic linear polycarbonamide which, when applied as a coating and dried, yields thin continuous films, said process comprising dissolving the polycarbonamide in a substantially water-insoluble organic solvent at least 50% by volume of said solvent consisting of an alcohol boiling above 100° C., and mixing with agitation the solution thus obtained with water and a surface active agent, selected from the group consisting of (*a*) protective colloids consisting of sodium caseinate and ammonium caseinate, (*b*) anion-active

emulsifying agents consisting of triethanolammonium oleate, sodium oleate, sulfonated castor oil and oleyl sodium sulfate, (*c*) polyvinyl alcohol, and (*d*) mixtures of a protective colloid defined as an (*a*) with anion-active emulsifying agent defined as in (*b*), said polycarbonamide being the reaction product of a polymer-forming composition comprising reacting material selected from the group consisting of (*a*) monoaminomonocarboxylic acids, (*b*) mixtures of diamine with dibasic carboxylic acid, and (*c*) mixtures of monoaminomonohydric alcohol with dibasic carboxylic acid.

2,405,966
SYNTHESIS OF NITRILES
Donald John Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 1, 1944, Serial No. 520,687
5 Claims. (Cl. 260—464)

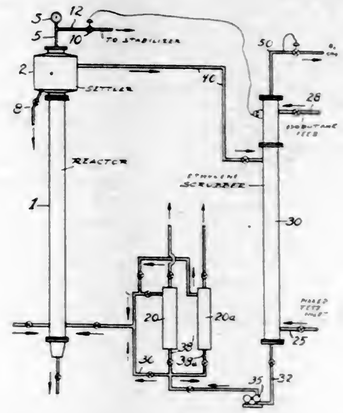
1. In a process for the preparation of nitrilotriacetonitrile the steps which comprise reacting aminoacetonitrile with formaldehyde and hydrogen cyanide in the presence of an aqueous mineral acid catalyst, the initial molal ratio of formaldehyde to aminoacetonitrile being between 1.9:1 and 2.4:1, and the initial molal ratio of hydrogen cyanide to aminoacetonitrile being between 10:1 and 20:1, continuing the reaction for a period of about 2 to 3 hours at a temperature within the range of about 19° C. to 60° C., raising the temperature at the end of the reaction period to about 60° C. to 105° C., and recovering nitrilotriacetonitrile from the resultant mixture.

2,405,967
PREPARATION OF ACIDS AND ESTERS THEREOF
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 21, 1944, Serial No. 532,661
8 Claims. (Cl. 260—484)

1. A process for the preparation of a diester of diglycolic acid which comprises subjecting an ester of an (alkoxymethoxy) acetic acid to a reaction with carbon monoxide in the presence of a boron fluoride catalyst at a temperature between 20 and 350° C. and a pressure between 5 and 1500 atmospheres neutralizing the catalyst, heating the resulting mixture with an alkyl alcohol and recovering the diester of diglycolic acid by fractionation.

2,405,968
ALKYLATION OF ETHYLENE MIXED FEEDS
Charles S. Lynch, Plainfield, and Howard G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 25, 1943, Serial No. 488,344
6 Claims. (Cl. 260—683.4)

2. In the continuous alkylation of ethylene with isobutane in a continuous operation employing a hydrocarbon $AlCl_3$ complex catalyst, the improvement which comprises feeding a hydrocarbon stream containing ethylene and undesired components to a scrubbing zone, feeding a recycle product stream substantially saturated with respect to undesired components of the feed to said scrubbing zone, contacting said hydrocarbon stream with said recycled product in said scrubbing zone whereby substantially only ethylene is dissolved in said recycled product, withdrawing the undesired components of said hydrocarbon stream from said scrubbing zone, conducting the



recycled product containing dissolved ethylene with added isobutane to a reaction zone containing the said hydrocarbon-$AlCl_3$ complex catalyst, permitting the ethylene and isobutane to contact each other and the catalyst at elevated temperatures and pressures.

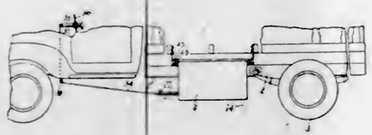
2,405,969
PROCESS FOR THE PURIFICATION OF EPSILON-CAPROLACTAM
Elmore L. Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 15, 1942, Serial No. 458,455
7 Claims. (Cl. 260—239)

1. The process for producing purified epsilon-caprolactam which consists in bringing a vaporized mixture of water and epsilon-aminocapronitrile into contact with a dehydration catalyst at an elevated temperature, withdrawing and condensing the reaction vapors, subjecting the condensate to distillation at sub-atmospheric pressure to remove water and the major portion of unconverted epsilon-aminocapronitrile, agitating the lactam-containing residue with an amount of an organic carboxylic ester which is at least substantially chemically equivalent to the epsilon-aminocapronitrile, the treatment with the ester being carried out so that substantially little or no lactam is acylated and substantially little or no lactam is polymerized, and then subjecting the treated lactam-containing residue to vacuum distillation to separate epsilon-caprolactam.

2,405,970
SANDING APPARATUS FOR ROAD VEHICLES
Charles H. Mattoon, Kalamazoo, Mich.
Application January 19, 1945, Serial No. 573,589
20 Claims. (Cl. 291—32)

1. In a sanding apparatus for road vehicles, the combination of a hopper adapted for mounting on a vehicle chassis in front of a traction wheel thereof and comprising a material receptacle including a rear wall, an outer bottom and a rearwardly inclined inner bottom disposed with its rear end in spaced relation to the rear wall and

a plurality of longitudinal partitions disposed above said inner bottom and extending from front to rear of the hopper to provide a plurality of relatively narrow individual material compartments having discharge openings at the rear ends thereof, a cross member disposed transversely across said hopper between its said outer and inner bottoms and in spaced relation to the rear wall thereof to provide a chute chamber open at the bottom thereof, a discharge chute for each of said compartments, the rear walls of said chutes being pivotally mounted on the lower edge of the rear wall of the hopper, said chutes being adapted to swing to a horizontal position within said chute chamber or to a vertical position in communication with the discharge openings of said compartments, the upper edges of the front walls of said chutes being substantially below the upper edges of their rear walls when said chutes are disposed in said vertical position, the lower ends of said chutes when in discharging position being adjacent the surface to be sanded, strap-like joint closure and guide mem-



bers secured to said inner bottom to extend into said chutes, channel-shaped throat members disposed within said compartment discharge openings and conformed to guide the material to the upper end of said chutes, a latch bar slidably mounted on said cross member in front thereof and provided with a latch bolt for each of said chutes projecting through said cross member, said latch bolts being of different lengths whereby they successively release the discharge ends of said chutes to discharging position when the latch bar is retracted, a spring acting to urge said latch bar to engaging position, a release rod slidably mounted between said main and auxiliary hopper bottoms and operatively connected to said latch bar, a slidably mounted manual control member operatively connected to said release rod and having a longitudinal series of keepers, and a positioning detent for yieldably engaging said keepers whereby the latch bar may be actuated step by step to successively release the discharge ends of said chutes to discharging position.

2,405,971
HALOGENATED POLYETHYLENE
Ambrose McAlevy, Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 23, 1943, Serial No. 480,217
1 Claim. (Cl. 260—94)

A process of chlorinating a polymer from ethylene having a molecular weight of at least 300 obtained by polymerizing ethylene at a temperature between 40 and 400° C. under pressures between 350 and 3000 atmospheres and in the presence of a catalyst selected from the group consisting of oxygen and peroxy compounds which comprises reacting the said polymer in solution in carbon tetrachloride with sulfuryl chloride in the presence of benzoyl peroxide and at a temperature between 50 and 130° C.

2,405,972
METHOD OF PRODUCING PRESCRIPTION BLANKS
Arthur C. McCrum, Kansas City, Mo.
Application January 13, 1945, Serial No. 572,662
5 Claims. (Cl. 95—5)



1. A method of producing prescription blanks comprising the steps of applying an indicia strip at the top of a prescription blank form said form having a black rectangular panel thereon to produce a paste-up, photographing the paste-up and obtaining a negative having a transparent window resulting from reproduction of the black rectangular panel, photographing a title design to produce a negative corresponding in size to the window in the prescription blank form negative, preparing a paste-up negative by applying the title design negative in the window of the prescription form negative so the emulsion sides of the two negatives correspond, reproducing a plurality of paste-up negatives on an offset plate and printing the prescription blanks from the plates.

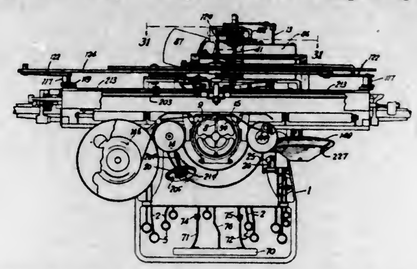
2,405,973
PREPARATION OF STARCH ETHERS
Peter L. Nichols, Jr., and Robert M. Hamilton, Philadelphia, Pa., assignors to United States of America, as represented by the Secretary of Agriculture
No Drawing. Application January 20, 1944, Serial No. 518,975
4 Claims. (Cl. 260—209)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the process of preparing carbohydrate ethers from formic acid swelled starch, the step which comprises etherifying the swelled starch in a substantially anhydrous mixture of caustic alkali and an etherifying agent.

2,405,974
TYPEWRITER FOR JUSTIFYING LINES
Charles W. Norton, West Orange, N. J., assignor to Ralph C. Coxhead Corporation, New York, N. Y., a corporation of Delaware
Application July 8, 1944, Serial No. 543,981
12 Claims. (Cl. 197—84)

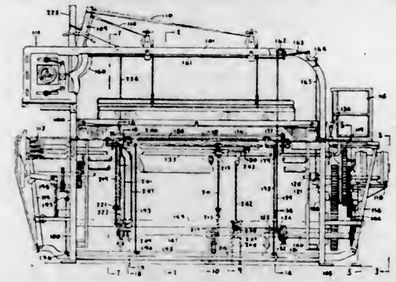
1. In a typewriting machine, in combination, a movable paper carriage, a variable escapement mechanism to control the movement of said carriage, a plurality of universal bars operatively connected with said escapement mechanism, key levers to operate said escapement mechanism, means between said escapement mechanism and said carriage to change the degree of letter spacing of said carriage according to type size, changeable type means to change the type font in use

at the printing point, said universal bars being adapted to vary the system of letter spacing ac-



cording to the style of the type font in use at the printing point.

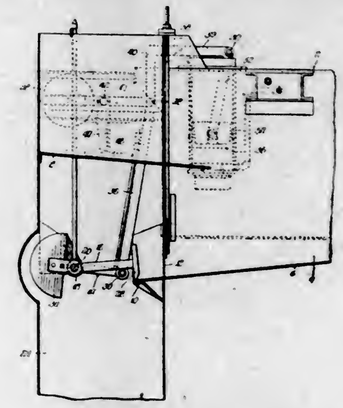
2,405,975
LOOM
Samuel P. Parker, La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia
Application July 27, 1945, Serial No. 607,421
31 Claims. (Cl. 139—38)



2. In a loom which includes means for supplying pile and ground warp yarns, shedding means for forming the warp yarns into sheds, and means for inserting picks of filling yarn into the sheds, the combination of means acting intermittently to stop the shedding and inserting means, means brought into action by the stopping means and operating during each period of rest of the shedding and inserting means to draw pile yarns from their positions in the shed to form pile loops, and means operated by the loop forming means to start the shedding and inserting means after the pile yarns have been drawn out.

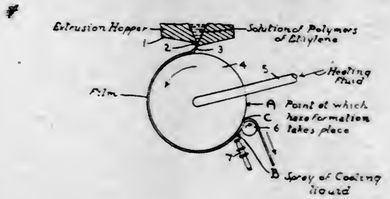
2,405,976
GATE MECHANISM FOR MECHANICAL CONCENTRATING DEVICES
Charles H. J. Patterson, Pittsburg, Kans., assignor to The McNally-Pittsburg Manufacturing Corporation, Pittsburg, Kans., a corporation of Kansas
Application September 16, 1943, Serial No. 502,579
10 Claims. (Cl. 209—496)

1. In a mechanical concentrating device, the combination of a concentrating compartment for material being treated by said device, discharge means for evacuating concentrates from said compartment, a gate mechanism for said discharge means comprising a plurality of elements each provided with a facing movable substantially normal to the flow of concentrates from said discharge means, means for mounting said elements for movement with respect to the orifice for said discharge means and with respect to each other, and control means providing a common support adjustably positioning and determining lower limits of movement for said elements, said elements being freely adjustable independently of



said control in substantially an upward direction to provide an adjustable upper limit for said orifice at one or more of said elements when said elements are in any of their adjusted positions.

2,405,977
FILM MANUFACTURE
Franklin Traviss Peters, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 2, 1943, Serial No. 500,989
2 Claims. (Cl. 18—57)

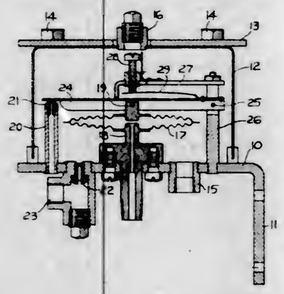


1. A process for preparing transparent films from a normally solid polymer of ethylene which melts at a temperature of from 100° C. to 120° C., said process comprising casting a film on a casting support from a liquid composition, the temperature of said liquid composition being above the melting point of said polymer, and the temperature of said support being below the melting point of said polymer but not more than 15° C. below the melting point of said polymer, said liquid composition comprising a modifying agent and a solution of said polymer, maintaining the film in contact with said support until substantially all of the solvent is evaporated from the film, quenching the film by contacting it with a non-solvent cooling liquid at a temperature of from 0° C. to 70° C. just prior to crystallization and haze formation in the film, and then stripping from the casting support the transparent film thus obtained, said modifying agent being present in amount of from 0.1% to 10% of the weight of the ethylene polymer in said solution and consisting of a substance selected from the group consisting of fatty acids containing from 6 to 30 carbon atoms, and salts of said acids.

2,405,978
MANUFACTURE OF ARTIFICIAL FIBROUS SHEET MATERIAL
Robert Pickles and John Pickles, Cairo Mill, Burnley, England
No Drawing. Application March 14, 1944, Serial No. 526,490. In Great Britain March 12, 1943
2 Claims. (Cl. 117—65)

1. A process of manufacture of an artificial fibrous material which consists in carding a mass of waste vegetable textile fibres into a dry web or fleece at least 90% whereof are not greater than 2 mm. in length whilst the remainder do not exceed 10 mm., impregnating the carded mass with a binding agent in aqueous dispersion form, compressing the impregnated mass into sheet or board form and simultaneously expressing the excess impregnant, and drying the product, the proportion of the fibrous mass to the binding agent in the finished product being from 50 to 80 lbs. of the former to from 50 to 20 lbs. of the dry weight of the latter.

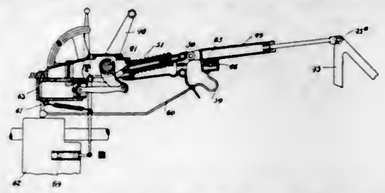
2,405,979
PRESSURE REPRODUCING INSTRUMENT
Albert J. Rosenberger, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application March 22, 1943, Serial No. 480,048
2 Claims. (Cl. 137—153)



1. A pressure reproducing instrument comprising a hollow casing formed with an opening communicating with a source of pressure and an opening communicating with atmosphere, a flexible closed capsule in the casing connected to a source of pressure to be reproduced, a tube in the casing connected to one of the openings and terminating in a control orifice, a valve member in the casing connected to the capsule to be moved thereby and cooperating with the control orifice to vary the flow therethrough, and adjustable resilient means acting between the valve member and a part fixed relative to the casing to bias the valve member in one direction.

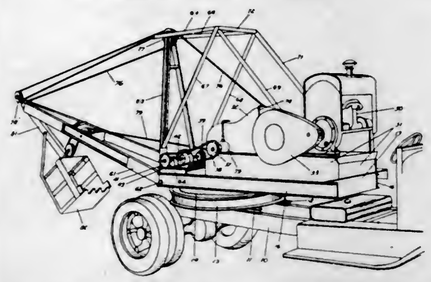
2,405,980
HITCH MEANS FOR CONNECTING TRAILED DEVICES TO TRACTIVE VEHICLES
William John Sands and Archibald Greer, Belfast, Northern Ireland
Application September 6, 1943, Serial No. 501,378
In Great Britain February 27, 1942
18 Claims. (Cl. 280—33.44)

1. Hitch means for connecting a trailable device to a tractive vehicle comprising spaced connecting means respectively subjected to compressive and tensile stress due to the draft on the device, one of the connecting means comprising relatively movable parts in the form of a piston and cylinder device adapted to receive a resistant fluid, a restricted flow-resisting passage from the cylinder, a loaded release valve controlling said passage and adapted to release the fluid when the stress in the connecting means exceeds a predetermined amount, as when the trailable device strikes an obstruction, to allow a cushioning



movement of the piston and cylinder which prevents undue stress in and damage to the trailable device, hitch and vehicle and absorbs the momentum of the vehicle in expelling the oil, and means for restoring the piston and cylinder to normal working position.

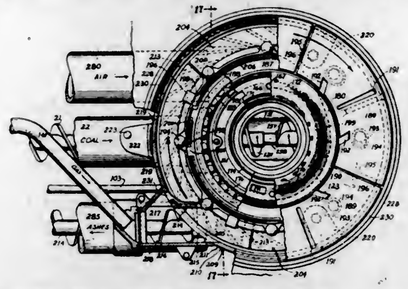
2,405,981
EARTH MOVING DEVICE
Vern L. Schield, Waverly, Iowa
Application February 26, 1944, Serial No. 523,998
3 Claims. (Cl. 214—138)



1. In an earth working device of the character described, a truck having a rear axle and rear supporting and driving wheels, and a chassis frame, a turntable mounted on the rear of said frame substantially over the rear axle and including a forwardly extending frame, an elevator hoist unit mounted on the forward end of said turntable frame, a boom pivoted at its inner end to the rear end of said turntable frame and extending generally rearwardly, a mast structure fixedly carried at the rear end of said turntable frame and extending substantially directly upwardly therefrom and generally above said rear axle in substantially all positions of said turntable, and cable means extending between said hoist and boom and trained over the upper end of said mast structure.

2,405,982
STOKER
William M. Schweickart and Fred G. Julyan, Euclid, Ohio, assignors to Pocahontas Fuel Company Incorporated, New York, N. Y., a corporation of Virginia
Original application August 28, 1937, Serial No. 161,494, now Patent No. 2,306,189, dated December 22, 1942. Divided and this application August 8, 1941, Serial No. 405,894
6 Claims. (Cl. 110—45)

1. A stoker combustion system comprising in combination with a retort expanding and opening upward, of means forming a combustion chamber above said retort adapted to be subjected to subatmospheric pressure by virtue of the flue draft thereby effecting a natural draft of air into said chamber, means forming the bottom of said chamber and sealing it against entrance of air through the area around said retort including a stationary annular ash member and a grate structure movable around a central axis and comprising an annular upper grate surrounding the upper portion of said retort and a lower ash table overlying said member, said overlying table cooperating with the overlaid part of



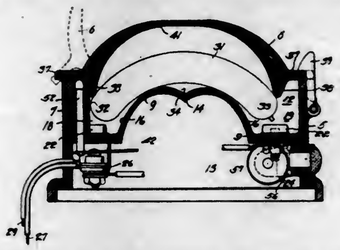
said member to form an air seal, means for supplying coal to said retort and forcing it upwardly therethrough, and means for supplying air under pressure to the upper portion of the coal column in said retort, said means comprising a blower operable to supply air above atmospheric pressure and an air supply orifice for passing air to said upper portion of said coal column under predetermined conditions of banking air control when said blower is inoperative and the combustion chamber is under pressure below atmospheric.

2,405,983
ADHESIVE COMPOSITION DERIVED FROM HYDROLYZED ETHYLENE-VINYL ACETATE INTERPOLYMERS
William H. Sharkey, Wilmington, Henry M. Cadot, Greenville, and William B. Clark, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 12, 1944, Serial No. 535,380
7 Claims. (Cl. 20—89)

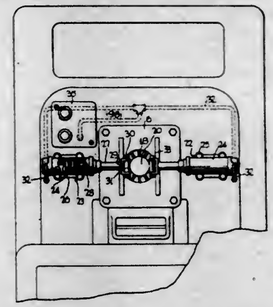
1. Plywood adhesively bonded by an adhesive comprising a carboxylic acid catalyst and a condensation product of formaldehyde with a hydrolyzed ethylene-vinyl acetate interpolymer.

2,405,984
ELECTRIC COOKER
Charles M. Sharpe, San Francisco, Calif.
Application August 19, 1943, Serial No. 499,191
1 Claim. (Cl. 99—358)

In an electric cooker for frankfurters and the like, a one-piece receptacle having a transverse portion defining with the sides of the receptacle a pair of liquid wells spaced by a member having spaced longitudinally extending portions positioned to engage the frankfurters at spaced points intermediate the ends thereof and defining therebetween a depression intermediate the wells for trapping liquid on the member, electric conductors at each end of said wells extending upwardly through said transverse portion and having terminals exposed in said wells, and a cover for closing said receptacle having peripheral portions arranged to seat upon the receptacle sides and provided adjacent and inward of said portions with longitudinal portions extending downwardly relative to said peripheral portions and positioned to engage and depress therein the ends of the frankfurters supported on the longitudinal portions of said member, the said member being in the form of an arch in horizontal section with the side portions extending downwardly and outwardly to form the adjacent sides of the wells, and said cover being formed on the underside thereof with a concave surface complementary to said arch surface but spaced therefrom sufficiently to clear the frankfurter or the like and extending substantially from one of the downwardly projecting portions of the cover to the other so as to direct the condensing vapors on such surface to said projecting portions.



2,405,985
INDUCTION HEATING APPARATUS
Harold A. Strickland, Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 2, 1943, Serial No. 500,903
16 Claims. (Cl. 219—13)

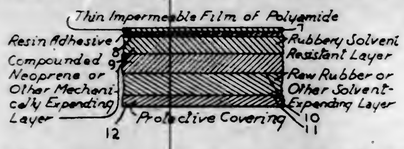


1. In induction heating apparatus, a heating coil having a feed opening for insertion of a workpiece, a power source, a circuit including said source and coil, a relay circuit controlling the functioning of said circuit, including a relay switch, closure means for closing said coil feed opening, and single means for closing said relay switch and closure means, said closure means being adjustable independently of said relay switch.

2,405,986
FUEL CONTAINER
David J. Sullivan, Fairfield, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 22, 1942, Serial No. 427,838
4 Claims. (Cl. 154—43.5)

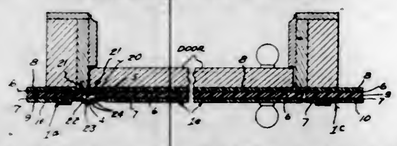
1. A self-sealing fuel container, the walls of which comprise flexible sheet material compris-

ing a plurality of adherent laminae, said laminae comprising an outer layer of raw rubber adapted to swell on contact with a hydrocarbon liquid, a layer which mechanically expands to close openings caused by perforations and which comprises plasticized neoprene, a layer of neoprene which is substantially harder than said last mentioned layer and which has substantial resistance to



the solvent action of hydrocarbon liquid, and a layer of polyamide which is sufficiently thin to retain the flexibility of said sheet material but which is essentially impermeable to hydrocarbon liquids, said polyamide layer being a film composed of superposed polyamide coatings consisting essentially of amide-forming reactants and having a total thickness of from .05 mm. to .3 mm.

2,405,987
HIGH-FREQUENCY SHIELDING
Orlan M. Arnold, Troy, N. Y.
Application November 18, 1941, Serial No. 419,538
14 Claims. (Cl. 174—35)



1. A high frequency shielding material which comprises spaced sheets of metal having smoothly polished surfaces protected against corrosion and mechanical injury by covering layers of insulating material and separated from one another by a layer of stable substantially non-polar insulating material, the whole being united into an integral sheet.

2,405,988
ORGANO-SILICON ESTERS AND MATERIALS TREATED THEREWITH
Arthur J. Barry, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 10, 1943, Serial No. 513,746
6 Claims. (Cl. 260—462)

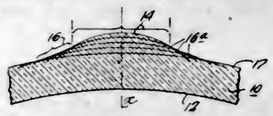
1. An organo-silicon ester having the general formula:

$$R_nSi\left(O-\overset{O}{\overset{\|}{C}}-R'\right)_{4-n}$$

wherein R in each instance represents a radical selected from the class consisting of hydrocarbon and hydrocarbonoxy radicals and at least one R represents such radical containing at least 8 carbon atoms and selected from the class consisting of alkyl and alkoxy radicals, R' represents a hydrocarbon radical, and n is an integer not greater than 3.

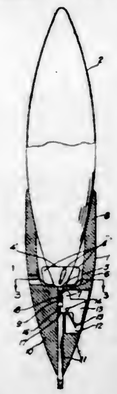
2,405,989
LENS
Howard D. Beach, Buffalo, N. Y., assignor to Beach Lens Corporation, Buffalo, N. Y.
Application August 12, 1941, Serial No. 406,488
14 Claims. (Cl. 88—54)

1. A multi-focal spectacles lens comprising a one piece lens body of light transmitting and refracting material of uniform index of refraction throughout, and having upon one face thereof a reading zone of substantial area but constituting a minor part of said face, said zone having a substantially spherical curvature formed to give the desired reading addition to the body, said body also having formed upon the same face thereof and bordering the reading zone, a plurality of intermediate addition curved areas of relatively narrow width arranged side by side and



adjoining one another, and of weaker addition power progressively away from said reading zone to provide multi-focal vision zones, the innermost of said intermediate zones adjoining said reading zone and the outermost of said intermediate zones adjoining said one face, the addition curved areas being formed to blend the addition zones gradually into one another and into the remaining area of said face to provide a smooth surface free of abrupt changes in direction joining the reading zone and the remaining area of said face.

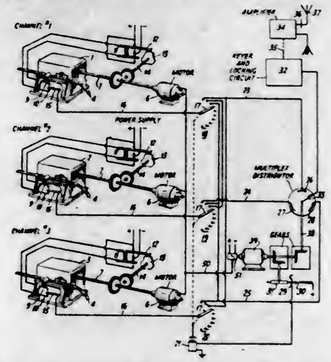
2,405,990
SPOTTING SUBMARINES
John T. Beechlyn, Worcester, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application May 22, 1943, Serial No. 488,320
4 Claims. (Cl. 116—26)



1. A method of spotting submerged submarines with a projectile having a negative buoyancy before striking the submarine and a positive buoyancy thereafter, which comprises firing a group of projectiles directed to drop substantially simultaneously into the water in a given area and descend and rise at known rates, measuring the time intervals between the firing and reappearance of the projectiles when they break the surface and noting their distance and bearing.

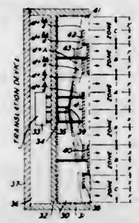
2,405,991
SECRECY SYSTEM
Harold H. Beverage, Riverhead, N. Y., and Richard E. Mathes, Westfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 31, 1940, Serial No. 348,756
12 Claims. (Cl. 178—22)

12. In a multiplex telegraph system wherein signals are composed of marking and spacing elements of unit length and multiples of unit length, the method of rendering communication secret which comprises periodically reversing the polarity of the impulses corresponding to said marking and spacing elements, assigning signal im-



pulses of one message at irregular intervals to different ones of a plurality of multiplex channels in the system, and assigning signal impulses of other messages at the same irregular intervals to the remaining ones of said channels.

2,405,992
DIRECTIVE ANTENNA SYSTEM
Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 19, 1944, Serial No. 518,791
15 Claims. (Cl. 250—11)



1. A phase shifter for passing a wave of given wavelength and for changing without reflection loss the phase of said wave, said shifter being composed of dielectric material and having at least two faces extending perpendicular to the direction of said wave, the path aligned with said direction and connecting said faces being equivalent to a multiple, including the integer one, of 90 degrees, and the difference between the dimension along said path of the material as measured in wavelengths in the material and the dimension as measured in wavelengths in the air being equivalent to a phase shift smaller or greater than 180 degrees.

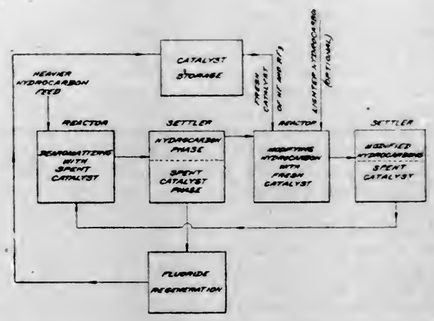
2,405,993
REACTIONS WITH ISOPENTANE IN THE PRESENCE OF A LIQUID CATALYST
Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 16, 1942, Serial No. 451,216
12 Claims. (Cl. 196—78)

1. A process of averaging a liquid petroleum fraction comprised primarily of normal hydrocarbons having at least six carbon atoms, with another petroleum fraction containing an appreciable amount of isopentane, in the presence of a catalyst comprised essentially of liquid hydrogen fluoride in which is dissolved not over 50 mol percent of boron trifluoride (based on the hydrogen fluoride) to provide a partial pressure of boron trifluoride of 5 to 550 pounds per square inch, and continuing the reaction under a pressure to maintain the hydrogen fluoride liquid thereby to form hydrocarbons intermediate said reacting petroleum fractions.

2,405,994
AVERAGING PROPANE AND PENTANE
Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 20, 1943, Serial No. 511,107
11 Claims. (Cl. 260—676)

1. A process of catalytically treating hydrocarbons, which comprises treating propane and pentane with a liquid catalyst comprising liquid hydrogen fluoride in which is dissolved not over 50 mol per cent of boron trifluoride (based on the fluorides) to provide a partial pressure of boron trifluoride of 5 to 550 pounds per square inch, and regulating the activity of the catalyst with reference to the conditions of the reaction by adjusting the partial pressure of the boron trifluoride to produce hydrocarbons having a boiling point intermediate said propane and pentane.

2,405,995
PROCESS FOR DEAROMATIZING AND MODIFYING HYDROCARBONS WITH HYDROGEN FLUORIDE AND BORON TRIFLUORIDE
Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
Application March 6, 1944, Serial No. 525,300
15 Claims. (Cl. 196—9)



1. A process which comprises treating a hydrocarbon mixture containing aromatic and non-aromatic hydrocarbons with a composition comprising liquid hydrogen fluoride containing boron trifluoride dissolved therein, whereupon aromatic hydrocarbons form a complex with said fluoride composition as the principal action; separating said fluoride composition containing said aromatic-fluoride complex as a heavier layer, and the hydrocarbons from which aromatics have thus been removed as a lighter layer; and then subjecting said dearomatized hydrocarbons, with-

out the removal of any fluorides remaining therein, to the action of a catalyst comprising liquid hydrogen fluoride containing boron trifluoride dissolved therein which acts to modify the chemical structure of the non-aromatic hydrocarbons.

2,405,996
PROCESS OF AVERAGING HYDROCARBONS
Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 5, 1944, Serial No. 529,681
20 Claims. (Cl. 196—9)

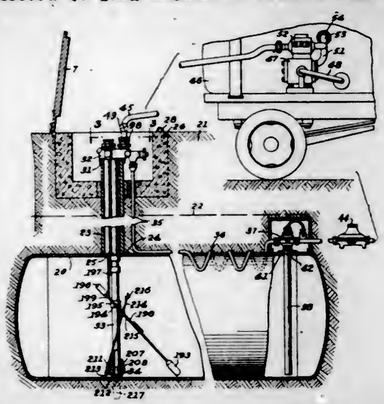
1. A process of catalytically averaging hydrocarbons which comprises reacting a light hydrocarbon fraction comprising normal hydrocarbons of not over six carbon atoms and a heavier hydrocarbon fraction comprising primarily hydrocarbons having at least two more carbon atoms than contained in said light fraction in the presence of a liquid catalyst, said catalyst comprising essentially liquid hydrogen fluoride in which is dissolved less than 50 mol per cent of boron trifluoride as the primary inorganic catalytic ingredients, and continuing the reaction under a pressure to maintain the hydrogen fluoride and the hydrocarbons liquid and at a temperature and for a period of time while regulating the activity of the catalyst by adjusting the partial pressure of the boron trifluoride to produce hydrocarbons intermediate said light and said heavier fractions resulting from a net consumption of said light normal hydrocarbons and said heavier hydrocarbons.

2,405,997
AVERAGING WITH PENTANE
Robert E. Burk, Novelty, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application August 9, 1944, Serial No. 548,807
10 Claims. (Cl. 260—683.4)

1. A process of catalytically averaging hydrocarbons which comprises reacting a normally liquid hydrocarbon fraction comprising paraffinic hydrocarbons having at least seven carbon atoms and a lighter hydrocarbon fraction comprising normal pentane, in the presence of a liquid catalyst the inorganic ingredients of which comprise essentially liquid hydrogen fluoride in which is dissolved not over 50 mol per cent of boron trifluoride, and continuing the reaction under a pressure to maintain the hydrogen fluoride liquid and at a temperature and for a period of time while regulating the activity of the catalyst by adjusting the partial pressure of the boron trifluoride to result in a net production of hydrocarbons intermediate said liquid hydrocarbon fraction and said normal pentane.

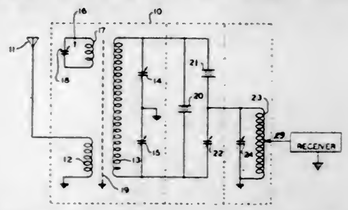
2,405,998
LIQUEFIED PETROLEUM GAS EQUIPMENT
William C. Buttner, Winnetka, and Savin L. Sundstrom, Chicago, Ill., assignors to The Bastian Blessing Co., Chicago, Ill., a corporation of Illinois
Application June 7, 1941, Serial No. 397,096
42 Claims. (Cl. 62—1)

1. In a liquefied gas dispensing system of the class described, a pressure storage tank receiving heat from an outside source, means for withdrawing liquid from the tank, a pressure regulator connected to said means to receive said liquid



and having a portion thereof disposed in heat exchange contact with the liquefied gas in the tank.

2,405,999
CRYSTAL FILTER CIRCUIT
Gleneth F. Collar and Richard C. Young, Seattle, Wash.
Application March 14, 1945, Serial No. 582,783
3 Claims. (Cl. 250—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

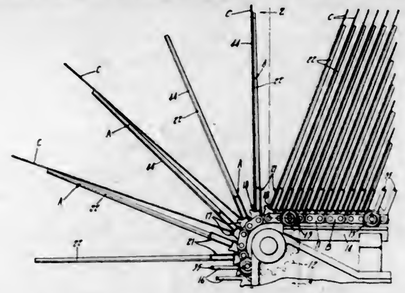


1. In combination with an antenna and a radio receiver having an input circuit, a filter comprising a first crystal circuit, resonant to an undesired signal frequency, interconnected between the antenna and receiver in a manner whereby said interfering signal is absorbed, a second crystal circuit resonant to a desired incoming frequency and interconnected between the antenna and receiver in a manner presenting a low impedance path solely to the desired signal, and an inductance-capacitance parallel resonant network across the output of said second crystal circuit, and means connecting the input circuit of said receiver across a portion of said resonant network whereby the selectivity of said second crystal circuit is adjusted to pass to the receiver the desired signal carrier and side bands only.

2,406,000
CONVEYER WICKET
George J. Dawn, Waukegan, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 2, 1944, Serial No. 552,505
17 Claims. (Cl. 198—134)

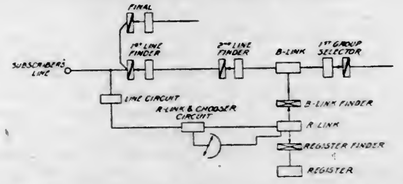
1. A sheet supporting wicket for use with oven conveyers, comprising in combination a hollow cross bar mountable on a conveyer, said cross bar having spaced top and bottom wall sections respectively provided with vertically aligned prong

receiving means thereon, and a plurality of separate prongs mounted on said cross bar in removable engagement with said prong receiving means and disposed in sheet supporting position, where-



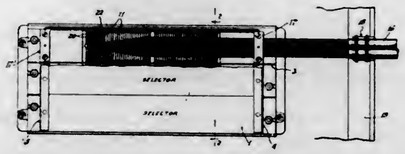
by said prongs may be readily replaced in a direction longitudinally of a said prong when the latter becomes bent or otherwise damaged while on the conveyer.

2,406,001
ELECTRICAL SIGNALING SYSTEM
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 24, 1944, Serial No. 523,626
28 Claims. (Cl. 179—18)



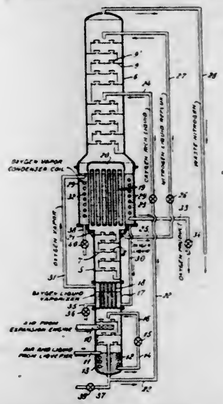
1. In an electrical signaling system, a signaling circuit, a uni-directional current conducting element, means for connecting said element in said signaling circuit, a source of alternating current, means for coupling said source of alternating current to said signaling circuit, means responsive to direction of current flow, means for connecting said last mentioned means to said circuit, means for intermittently reversing the connection of polarity of said uni-directional current conducting element in said circuit and selective means controllable by said means responsive to direction of current flow.

2,406,002
SELECTOR TERMINAL BANK
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 16, 1944, Serial No. 554,387
7 Claims. (Cl. 179—98)



1. In combination, a plurality of selectors, a multiple bank of terminals for said selectors, a set of wipers for each selector normally cooperating with said terminals, a cable, and means attached to wires of said cable removably connectible to the same portion of the terminal bank with which normally wipers may cooperate.

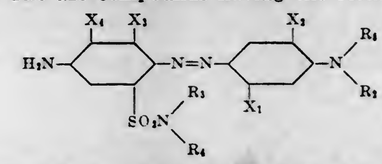
2,406,003
METHOD AND APPARATUS FOR OBTAINING PURIFIED LIQUID OXYGEN
Wolcott Dennis, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application October 1, 1943, Serial No. 504,578
5 Claims. (Cl. 62—175.5)



5. In an apparatus for recovering liquid oxygen from atmospheric air, means for maintaining two bodies of liquid oxygen at different levels, a connection whereby the body at the lower level is maintained under the static head of the liquid at the higher level, a condenser within the body at the higher level and means for delivering vapor from the body at the lower level to the condenser.

2,406,004
MONOAZO COMPOUNDS
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 20, 1942, Serial No. 443,718
6 Claims. (Cl. 260—205)

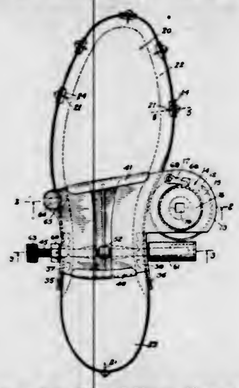
1. The azo compounds having the formula:



wherein R_2 and R_3 each stands for a member selected from the group consisting of hydrogen, a lower alkyl group, a lower alkoxyalkyl group and a lower hydroxyalkyl group, R_4 and R_5 each stands for a member selected from the group consisting of a lower alkyl group, a lower alkoxyalkyl group, a lower hydroxyalkyl group and a monocyclic group of the benzene series, X_1 stands for a member selected from the group consisting of hydrogen, a lower alkyl group, an acetamino group and a chlorine atom, X_2 stands for a member selected from the group consisting of hydrogen and a lower alkoxyl group, X_3 stands for a member selected from the group consisting of

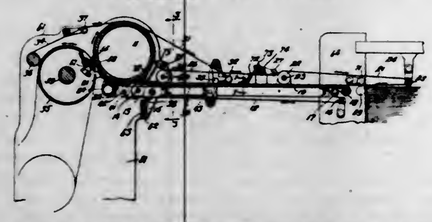
hydrogen, a lower alkyl group, a lower alkoxyl group, a chlorine atom and a bromine atom, and X_4 stands for a member selected from the group consisting of hydrogen and a lower alkyl group and wherein at least one of X_3 and X_4 must be hydrogen.

2,406,005
SOLE AND HEEL FORMER
William H. Doherty, Elmhurst, N. Y.
Application January 23, 1945, Serial No. 574,072
6 Claims. (Cl. 18—34)



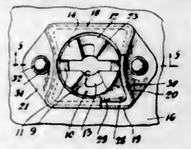
6. A device for moulding the sole, heel and shank of an article of footwear, said device comprising a unitary flexible band having overlapping ends, said band being adapted to conform to the marginal outlines of said sole, heel and shank, said band tapering at the shank from a relatively wide heel portion to a relatively narrow sole portion, a laterally adjustable shank core against which one of the ends of said band is pressure-held, a ratchet mechanism engaging the other end of said band and drawing said band into marginal conformity with the heel and sole, screw means for pressing the shank portions of said band against and in marginal conformity with said shank core, and tacking means for demountably attaching said band to said article of footwear, said shank core comprising a pair of longitudinally extending members which are transversely adjustable both with respect to each other and with respect to the article of footwear.

2,406,006
SHEET FEEDING MECHANISM
William K. Eckhard, Newark, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application March 27, 1943, Serial No. 480,741
19 Claims. (Cl. 271—50)



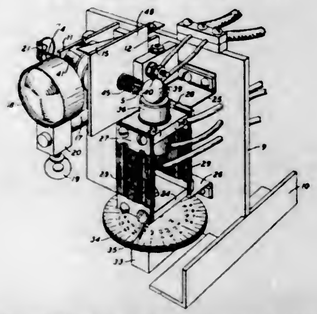
1. In a sheet feeding mechanism for a printing machine having a sheet receiving cylinder carrying grippers to hold the sheet, a sheet timing cylinder having sheet stops fixed thereon and continuously driven in timed angular relation with the sheet receiving cylinder and at a slightly higher peripheral speed, and sheet advancing means arranged to forward a sheet from a sheet supply device to the sheet timing cylinder at a slightly higher speed than the peripheral speed of the timing cylinder, whereby the sheet may be forwarded from the pile to the timing cylinder and taken in proper front register by the grippers carried by the sheet receiving cylinder without stopping the sheet.

2,406,007
FASTENER
Karl Eisele, Belleville, N. J., assignor to Camloc Fastener Corporation, New York, N. Y., a corporation of New York
Application October 15, 1943, Serial No. 506,391
3 Claims. (Cl. 24—221)



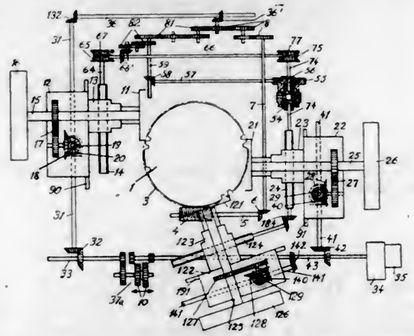
1. A receptacle including, in combination, a housing including a central portion having an aperture therein, flanges extending downwardly from said central portion, at least two opposite flanges bowing inwardly, ear portions extending laterally from said bowing flanges, a collar element disposed within said housing and including a body having its end projecting through the aperture in the central portion of the body, a base affixed to said body, at least two opposite side edges of said base bowing to correspond substantially to the curvature of said bowing flanges, the distance between said bowing edges being less than the distance between the inner surfaces of said bowing flanges, and means on said ear portions for securing said receptacle to a support.

2,406,008
JIG
Walter B. Ellwood, New York, N. Y., and Henry E. Hill, El Paso, Tex., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 29, 1941, Serial No. 421,084
10 Claims. (Cl. 200—87)



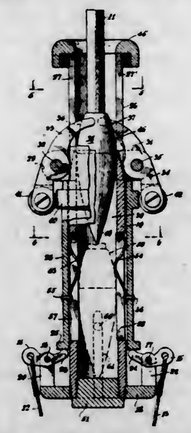
1. The method of manufacturing sealed tubes having magnetically movable elements therein which consists of securing a tube with one element sealed therein, inserting a second element secured to a clamp allowing a plurality of movements into said tube, mechanically adjusting said clamp until said element has been aligned with said first element without strain, securing said clamp, and sealing in said second element.

2,406,009
MACHINE FOR CUTTING CURVED, SELF-CONJUGATE INDENTATIONS
Albert Forster, Milanino, Italy, assignor to Buhler Brothers, Uzwil, Switzerland, a corporation of Switzerland
Application August 23, 1940, Serial No. 353,966
In Switzerland August 24, 1939
16 Claims. (Cl. 90—5)



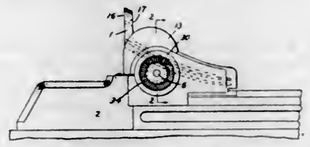
10. A machine for cutting selfconjugated curved indentations by continuous rolling, comprising a work table, a milling head, adapted to cut a face of the teeth, means operatively connecting said milling head with said work table, another milling head, adapted to cut the opposite face of the teeth, a planetary gear, operatively connected with said abovementioned means, other means, operatively connecting said planetary gear with said second mentioned milling head, a change speed gear, operatively connected with said work table and adapted to impress a control motion on said planetary gear, a source of energy, adapted to drive said work table and said milling heads, being operatively connected with said second mentioned means.

2,406,010
MECHANICAL RELEASE
Leonard P. Frieder, Rockville Centre, and Walter S. Finken, Brooklyn, N. Y.; said Finken assignor to said Frieder
Application March 10, 1945, Serial No. 582,126
7 Claims. (Cl. 294—83)



1. In a device of the character described, the combination comprising a bob and a bored member for connecting a load to a suspension line, operable arms pivotally mounted on said member and having jaws for engaging a bob located in the bore of said member and fastened to a suspension line, a sleeve slidable over said member and adapted to hold said arms in bob-engaging position, and displaceable means mounted on said member and operable by a load attached thereto to hold said sleeve in position on said member for engaging said arms and to be displaced from said position under the action of said sleeve when the force of the load thereon is relieved.

2,406,011
SIGHT
John C. Garand, Springfield, Mass.
Application March 17, 1944, Serial No. 526,955
2 Claims. (Cl. 33—56)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

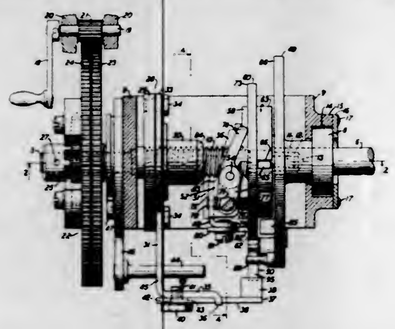


1. A firearm sight comprising a pair of spaced supports, a hollow windage knob journaled in one of said supports, an elevating pinion having one end journaled in said other support and the other end projecting thru said windage knob, an elevating knob secured to said projecting end, an annular cap having yardage graduations disposed about its periphery, means for securing said cap to said elevating pinion in any one of a plurality of angular positions with respect thereto, a sight base mounted between said supports and threadably engaged by said windage knob, whereby the position of said sight base may be varied transversely with respect to said supports, an aperture member slidably mounted in said sight base for movement along a path having a vertical component with respect to said sight base, and toothed means interconnecting said elevating pinion and said aperture member effective to move said aperture member along said path by rotation of said elevating knob.

2,406,012
MECHANICAL DRIVE DEVICE
Harold W. Goff, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 30, 1943, Serial No. 504,389
4 Claims. (Cl. 74—84)

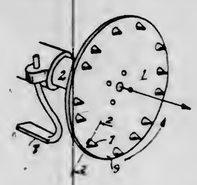
1. A mechanical drive device, operable as a means for drive connecting a first rotatable shaft to a second rotatable shaft in accordance with a predetermined program requiring that the first shaft shall be rotated a predetermined number of turns while the second shaft is held stationary and the second shaft shall be rotated in accordance with only some of the rotational movements of the first shaft, and comprising a first rotatable shaft, means to rotate said shaft, a second rotatable shaft, an apertured rotatable member secured to said first shaft, a block-equipped rotatable member secured to said second shaft, said rotatable members being supported by means of said shafts in spaced relation, a rocker mounted on said apertured rotatable member, a stem on one end of said rocker and extending into the aperture provided in said apertured rotatable

member, a screw thread on said first shaft and a traveler supported on said first shaft in screw threaded engagement with said screw thread and operable by means of said first shaft to move



along said first shaft and rock said rocker so that said stem will engage the block on said block-equipped rotatable member to transmit rotations of said first shaft to said second shaft.

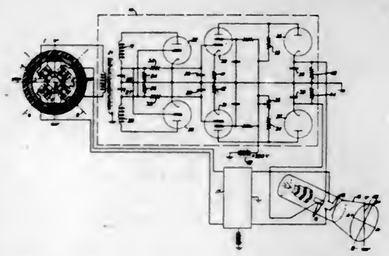
2,406,013
TOPPER FOR BEETS AND THE LIKE
Dolphis G. Grew, Saginaw, Mich.
Application September 25, 1943, Serial No. 503,736
3 Claims. (Cl. 55—107)



3. A rotor for beet toppers, weeders and the like comprising a flexible pliant disk rotatable in its own plane at speed appropriate to normally maintain by centrifugal action the rim portion of the disk in a plane perpendicular to its axis of rotation; and strikers projecting outwardly from the work-engaging face of the disk near its periphery only, said strikers being spaced apart in circular arrangement.

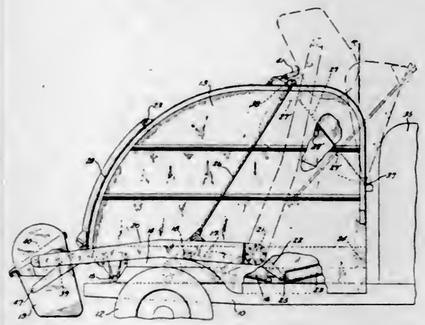
2,406,014
SYSTEM FOR LOCATING THE SOURCE OF AN EXPLOSION WAVE
William R. Harry, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of Delaware
Application December 28, 1943, Serial No. 515,889
7 Claims. (Cl. 177—352)

2. In a system for locating the source of an explosion wave, the combination with two directional microphones of the cosine type having their axes of sensitivity disposed in quadrature, apparatus for producing an indication in accordance with the magnitudes and polarities of the outputs of the microphones and a separate circuit connecting each microphone to the apparatus, of two condensers in each circuit, charging circuits for selectively charging the condensers of each circuit according to the polarity of the voltage generated by the microphone of that circuit in response to the first pulse of an explosion wave, and means controlled by the charged condenser in each circuit for preventing the other



condenser from being charged by a succeeding pulse of the wave.

2,406,015
REFUSE BODY
Joseph F. Heil and Arthur H. Samuelsen, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 18, 1945, Serial No. 594,422
15 Claims. (Cl. 214—67)

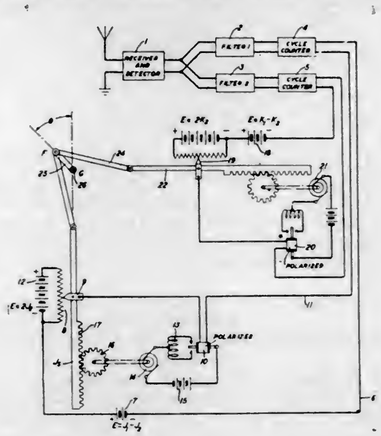


1. In a refuse truck body having an upper, forward loading opening therein, a refuse receiving bucket normally adjacent the lower rear portion of said body, power means for elevating said bucket and manipulating it so as to dump its contents into the body through said loading opening, a combination closure and material packing panel, and direct, positive connections between said panel and said bucket elevating power means for moving said panel into and out of the body relative to said loading opening.

2,406,016
INDICATING DEVICE
Raymond A. Heising, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 19, 1942, Serial No. 435,396
3 Claims. (Cl. 177—351)

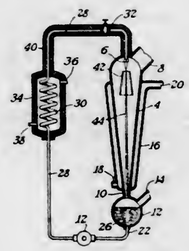
1. In an indicating system, two slidable bars mutually at right angles, a shaft at the intersection of the axes of said bars, a crank arranged to rotate said shaft, links individual to each bar connecting said bars to said crank, a first source of voltage varying with the sine function of a desired angle, a second source of voltage adjusted by the position of one of said bars opposing the voltage from said first source, reversible motor means controlled by the difference between the voltages from said sources to move said one bar

adjusting the voltage from said second source to equality with the voltage from said first source, a third source of voltage varying with the cosine function of said angle, a fourth source of voltage adjusted by the position of the other of said bars opposing the voltage from said third source,



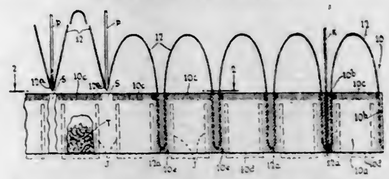
other reversible motor means controlled by the difference between the voltages from said third and fourth sources to move said other bar adjusting the voltage from said fourth source to equality with the voltage from said third source, whereby the conjoint movements of said bars rotate said crank to indicate the desired angle.

2,406,017
VACUUM APPARATUS
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application April 17, 1945, Serial No 588,750
6 Claims. (Cl. 230—101)



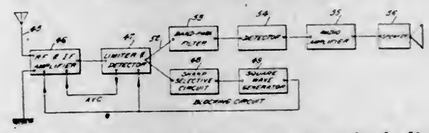
1. A vacuum pump adapted to evacute a closed system comprising in combination a closed chamber, a liquid jet nozzle located near one end of the chamber, and directed toward the opposite end of the chamber, an inlet for gases to be entrained or pumped, which inlet is positioned near to the liquid jet nozzle, means for guiding the vapors given off by the liquid jet which means is positioned so that it is between the liquid jet and the chamber wall, a collecting and separating means for liquid and entrained gases at the end of the chamber opposite to the nozzle, means for compressing and heating actuating liquid, means for conveying compressed and heated liquid to the nozzle for reuse and an exhaust port for removing the entrained gases from the collecting and separating means.

2,406,018
METHOD OF MANUFACTURING INFUSION PACKAGES
Hans O. Irmscher, East Hempstead, Long Island, N. Y., assignor to National Urn Bag Co., Inc., Long Island City, N. Y., a corporation of New York
Application October 14, 1942, Serial No. 461,968
5 Claims. (Cl. 93—3)



1. In a method of manufacturing of the character described, the steps of continuously moving and folding a strip of heat sealing bag sheet material to form spaced apart filled section units with closed bottoms, arranging a string in wave-like configuration with alternate loop and bight portions, inserting said bight portions into the sheet material between the section units, heat sealing said sheet material about each section unit for permanently embedding the inserted string bight portions in seam joint portions between said section units, and severing said seam joint and the bight string portions embedded therein centrally for completing successive individual packages each with loop string handle portion having the ends thereof permanently anchored in oppositely positioned heat sealed joints of each package to provide a bail handle.

2,406,019
PULSE MODULATION SYSTEM
Emile Labin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 1, 1941, Serial No. 386,282
12 Claims. (Cl. 250—6)

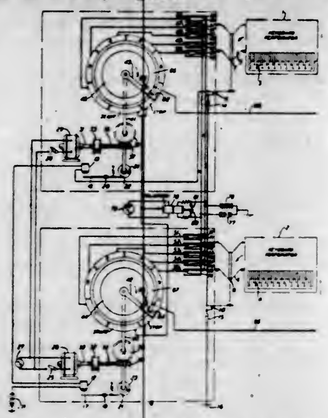


2. A radio communication system including a transmitter and receiver, said transmitter including impulse generator means for generating two series of impulses of the same impulse frequency, and means for time-modulating one of said series of impulses with respect to the other of said series, said receiver including filter means passing substantially only a band of frequencies immediately about an odd harmonic of the impulse frequency of one of said series, and amplitude-detection means.

2,406,020
TELEGRAPH SIGNAL ENCIPHERING MECHANISM
Wilmarth Y. Lang, Towaco, N. J., and Edward F. Watson, Larchmont, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1942, Serial No. 449,266
10 Claims. (Cl. 178—22)

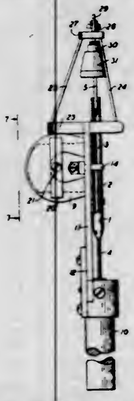
1. A mechanism for producing key tape for a permutation code telegraph system comprising a permutation code signal scrambling device, a key tape perforator controlled by said device and

means connected to said perforator for changing the setting of said device in response to the production of a single particular permutation code



signal combination defining a particular key character in said perforator, so as to scramble the signal elements comprising the key characters in a different manner, to promote secrecy.

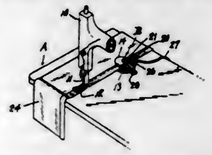
2,406,021
SEALED REED CONTACT DEVICE
John B. Little, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1941, Serial No. 400,702
5 Claims. (Cl. 200—87)



1. The method of manufacturing sealed tubes having magnetically movable elements therein which consists of securing a tube with one element sealed therein, suspending a second element in substantially its ultimate position, applying a magnetic field to said element to strain said first element by an amount equal to the desired final separation of said elements and sealing in said second element while said elements are under the influence of said magnetic field.

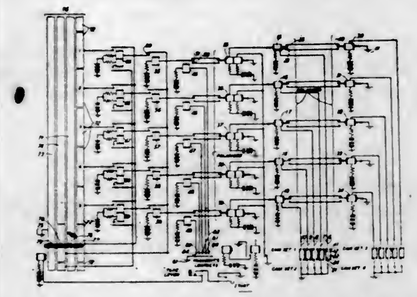
2,406,022
ELECTRIC HEM PRESSER FOR SEWING MACHINES
Mary R. Little, Harrisonburg, Va.
Application April 27, 1944, Serial No. 532,995
1 Claim. (Cl. 219—19)

A presser of the kind described, comprising a lower padded ironing section having curved sides, a rounded front edge and a straight rear edge, an upper presser head section conforming in shape to said lower section and swingingly connected to said lower section, means connected to the straight rear edges of said upper and lower



sections for urging the head section against the lower section, an electric heating unit embedded within the head section and a rest bottom on the lower section and having attaching means for securing said section in position for receiving a piece of work between it and the head section.

2,406,023
TELETYPEWRITER SIGNAL ENCIPHERING SYSTEM
George A. Locke, Glenwood Landing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 25, 1944, Serial No. 528,024
23 Claims. (Cl. 178—22)

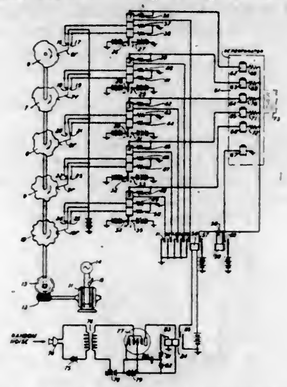


1. In a permutation code teletypewriter signal enciphering system, a permutation code signal enciphering transmitter, a teletypewriter receiver, a single transmission channel only interconnecting said transmitter and said receiver, means in said transmitter for producing permutation code teletypewriter receiver stunt signal combinations at random, means in said transmitter for preventing the transmission of said stunt signal combinations in a form to operate said receiver at random, means in said transmitter for producing other permutation code stunt signal combinations in an ordered sequence and means in said transmitter for transmitting said other stunt signal combinations from said transmitter over said single channel to said receiver so as to control said receiver in a manner to type neat copy.

2,406,024
KEY TAPE DEVICE FOR ENCIPHERING TELEGRAPH SIGNALS
Thomas A. McCann, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 28, 1942, Serial No. 444,832
7 Claims. (Cl. 178—22)

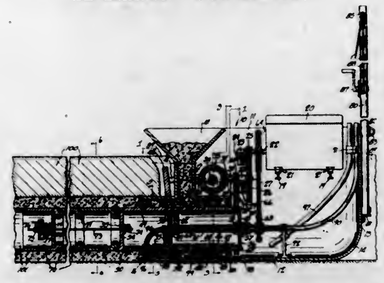
1. A device for punching a key tape for a ciphering system for permutation code telegraph signals comprising a tape punching mechanism

having a first control comprising a cam operated



contact and a second control comprising a random noise operated contact.

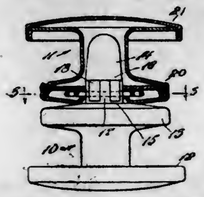
2,406,025
PIPE FORMING MACHINE
Herman L. Moor, Olive Township, St. Joseph County, Ind.
Application May 31, 1943, Serial No. 489,109
21 Claims. (Cl. 25—32)



1. A machine for forming a pipe in a trench, comprising a frame adapted for movement in said trench and having a lower cylindrical portion, a reduced diameter cylindrical rotatable member concentric with said frame cylinder and cooperating therewith to define an annular chamber, and means for feeding plastic material to and rearwardly through said chamber into said trench, said cylindrical member including an elongated portion formed of relatively rotatable articulated sections normally in frictional end engagement adjacent their circumference projecting rearwardly from said frame to continuously interiorly support said mix while the latter sets in said trench.

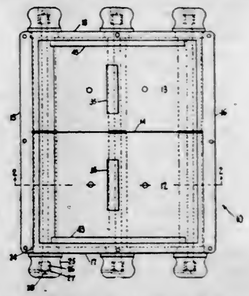
2,406,026
SEPARABLE MEMBERS
Eugene Morehouse, Providence, R. I., assignor to B. A. Ballou & Co., Inc., a corporation of Rhode Island
Application September 13, 1943, Serial No. 502,100
4 Claims. (Cl. 24—109)

1. Separable means comprising a cylindrical stud member having a plurality of notches equally angularly disposed about its axis and providing shoulders in substantially a plane at right angles to said axis spaced from one end thereof, and a socket member having an opening to receive said stud with a resilient wire bent to provide a plurality of protuberances equally angularly disposed about said opening to extend into said notches and engage said shoulders to prevent axial separation of said members, said protuberances being at least three in number, and said notches



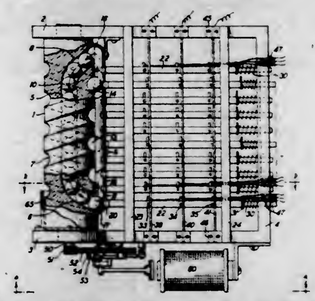
being provided in a number which is an integral multiple of the number of protuberances.

2,406,027
DATA EXHIBITOR
Gordon Munro, Bremerton, Wash.
Application January 6, 1943, Serial No. 471,457
3 Claims. (Cl. 40—86)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A data exhibitor comprising a window chart, a scroll movable beneath said window chart, said chart and said scroll having appropriate cooperating data thereon, means for moving said scroll so as to make selected data on said scroll visible through said window chart, means for holding said scroll against movement when the selected scroll data is in appropriate position, said holding means including a pressure plate beneath said scroll, yieldable means including an eccentric roller mounted beneath said pressure plate, said eccentric roller comprising a cylindrical spool, and an eccentrically mounted spring thereon.

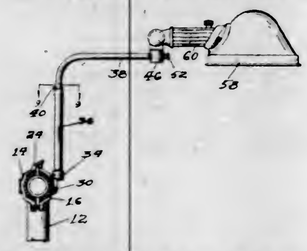
2,406,028
CIRCUIT MAKER AND BREAKER
Oscar Myers, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 1, 1944, Serial No. 561,400
7 Claims. (Cl. 200—1)



1. In a contact operating mechanism, a hollow shaft having a thread cut on the outside thereof, means for rotating said shaft, operating elements

inside said hollow shaft and in said thread, means for advancing said elements in a straight line by the thread as the shaft is rotated with the elements deposited into the shaft from the thread at one end and forced out from the other end into the thread, and contact springs so located in relation to the elements that succeeding sets are actuated by the elements advanced by the threads.

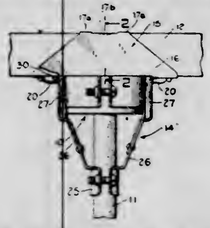
2,406,029
BED LAMP
Peter W. Nettesheim, Chicago, Ill.
Application February 2, 1945, Serial No. 575,745
2 Claims. (Cl. 248—230)



1. A bed lamp comprising a lamp, a handle therefor, a current carrying wire for the lamp and connected into the handle, means for adjustably and shiftably supporting the lamp on a bed, said means including a two-piece bracket adapted to clamp around a corresponding portion of a bed frame and cushioning means in the bracket, a supporting element adjustably and rotatably positioned on the bracket, the supporting element including a tubular upright, an L-shaped extension support rotatably and frictionally mounted in the tubular upright, means in the support for limiting the rotation thereof with respect to the upright, and a supporting element for the lamp positioned at the end of the L-shaped bracket, the supporting element including a rotatable and shiftable pivot means, the pivot means having an annular slot therein for locking relationship with its corresponding supporting element.

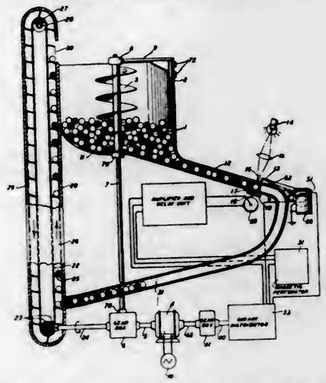
2,406,030
LOCKING DEVICE FOR ELECTRICAL CONNECTORS
Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application October 14, 1942, Serial No. 461,948
10 Claims. (Cl. 173—330)

1. Means for releasably securing an attachment plug to an outlet receptacle, comprising the combination with an anchor plate having side walls resiliently embracing the side walls of the outlet receptacle, flange means engaging with the rear walls thereof, and spaced pocket means disposed above the face of the receptacle, of a strap



for securement about the body of the attachment plug and spring means operatively associated with said strap and having free, springable ends terminating in outwardly directed hook members for engagement beneath the pockets of said anchor plate.

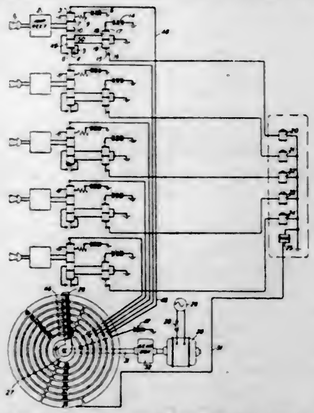
2,406,031
TELEGRAPH CIPHERING KEY TAPE MACHINE
Ralzemond D. Parker, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1942, Serial No. 443,909
8 Claims. (Cl. 178—22)



1. In a telegraph system, the method of preparing a key tape for enciphering permutation code telegraph signals which comprises: mixing equal numbers of two different forms of an object selecting at random a number of said mixed objects corresponding to the number of elements in the particular code and controlling the perforations of said tape in accordance with said selections.

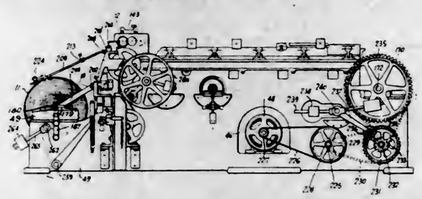
2,406,032
TELEGRAPH SIGNAL ENCIPHERING MECHANISM
Ralzemond D. Parker, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 23, 1942, Serial No. 466,645
9 Claims. (Cl. 178—22)

9. The method of producing permutated sets of two conditions which comprises selectively determining each condition of the set as a function of a characteristic at a given instant of a given



source of noise and combining the two conditions thus determined in permutations.

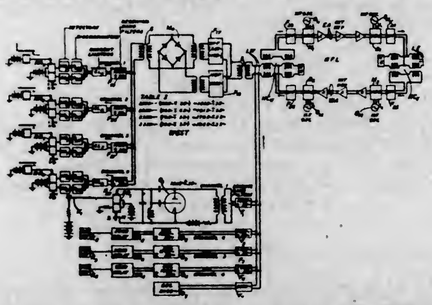
2,406,033
APPARATUS FOR THE MANUFACTURE OF CONVOLUTED RODS
Hiram A. Perkins, deceased, late of Rochester, N. Y., by Stuart L. Perkins, Rochester, N. Y., and Madeleine P. Hathaway, Essex County, N. J., executors, assignors to Setter Bros. Inc., Cattaraugus, N. Y., a corporation of New York
Original application August 31, 1940, Serial No. 354,945. Divided and this application January 19, 1944, Serial No. 518,827
8 Claims. (Cl. 93—1)



1. In a candy stick machine, means for convoluting paper sections to form loosely convoluted rolls, means including a rotatable paper supply roll for supplying and feeding said sections to the convoluting means, a mounting for the supply roll, means forming a passageway in which the rolls are further convoluted and compacted to form rods, a part of said last named means including a carrier, a cutter head forming with the carrier a substantial continuation of the passageway, knives carried by the cutter head and extending into the passageway so that the ends of the rods are cut off smoothly by rolling against and along the knives, and means active upon the supply roll and its rotatable mounting for axially displacing the supply roll to maintain a substantial end portion of each uncut rod on the outer side of each knife, said last named means being operative while the machine and all of said means are in normal operation.

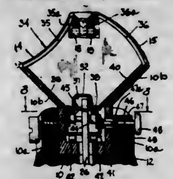
2,406,034
CARRIER WAVE SIGNALING SYSTEM
Walter A. Phelps, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 24, 1943, Serial No. 499,773
5 Claims. (Cl. 179—4)

1. In combination, a group of low frequency carrier communication channels and a separate pilot channel, means at a transmitting point for combining each of said channels with a high frequency carrier for transmission, means at a receiving point for combining the received high frequency waves with a carrier of nominally the same high frequency as the high frequency carrier at the transmitting point, to demodulate the



received communication channels and the received pilot channel, and modulating means for combining each of the demodulated carrier channels with the demodulated pilot channel to compensate for any frequency differences between the high frequency carriers at the transmitting and receiving points tending to distort the transmitted carrier communication channels.

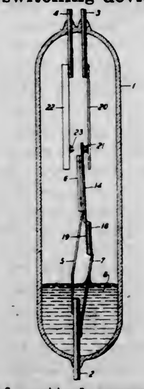
2,406,035
RAZOR
David Pinkas, Norwalk, Conn.
Application October 31, 1944, Serial No. 561,199
21 Claims. (Cl. 30—43)



5. In an electric shaver, a cutter head comprising two separate juxtaposed sets of stationary blades for engagement with the skin; sets of movable cutter blades connected together for simultaneous movement and associated respectively with the sets of stationary blades; and means, including a manually operable member, for causing either one of the sets of movable cutter blades to bear against its associated set of stationary blades and cooperate with same for cutting, the other set of movable cutter blades being thereby separated from its associated set of stationary blades so that friction between same is eliminated.

2,406,036
SEALED CONTACT DEVICE
Charles E. Pollard, Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1943, Serial No. 487,999
7 Claims. (Cl. 200—112)

1. An electrical switching device comprising an



armature, a set of wetted mercury contacts operated thereby, and a wetted mercury brake for controlling the movement of said armature.

2,406,037
CASING STRUCTURE FOR INTERNAL-COMBUSTION FREE PISTON ENGINES
Robert P. Ramsey, Hamilton, Ohio
Application March 17, 1945, Serial No. 583,334
14 Claims. (Cl. 123—46)

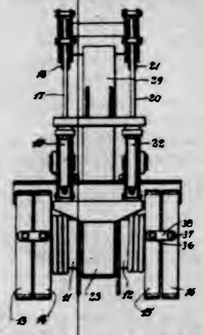
1. In an internal combustion free piston engine, a casing structure including a center frame part serving in part at least to form an open ended piston receiving power cylinder having an enlarged longitudinally extending cylindrical part

at each end and a liner for said extending part to provide a cylinder for receiving an air compressor piston and a removable head for each



of said latter parts forming a cylinder for receiving a bounce piston, a removal of said heads rendering access to the different cylinders.

2,406,038
SUPPORT FOR CLUTCH BANDS.
Gottfried Reuter, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, Milwaukee, Wis., a corporation of Delaware
Application May 27, 1944, Serial No. 537,717
8 Claims. (Cl. 188—77)



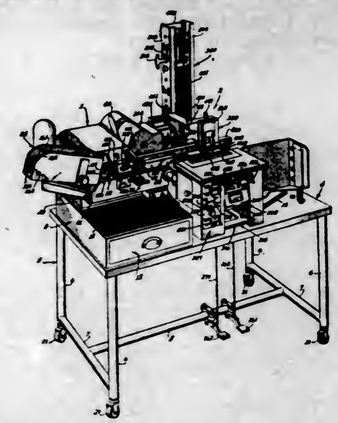
1. In a planetary transmission, the combination of: a clutch drum; a clutch band; a brake drum; a brake band, the two bands being selectively operable; and spring means connected solely to the two bands and in such manner as to tend to pull the clutch band clear of the clutch drum, when the clutch is released.

2,406,039
COATED METAL ARTICLE
Milton J. Roedel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 4, 1942, Serial No. 467,908
4 Claims. (Cl. 117—132)

1. A process for obtaining a metal article having a hard, adherent coating which comprises applying to the metal surface a film, not exceeding one mil in thickness, of a polymer of ethylene, and baking the coated metal at a temperature above 200° C. in contact with an oxygen containing gas until the film becomes insoluble in solvent for the untreated polymer.

2,406,040
PRINTING MACHINE
Commodore D. Ryan, Los Angeles, Frank J. Dempsey, Huntington Park, Fred A. Straub, Los Angeles, and Barnwell S. Tyler, Inglewood, Calif., assignors to Commercial Controls Corporation, a corporation of Delaware
Application November 2, 1940, Serial No. 364,052
14 Claims. (Cl. 101—57)

6. In a printing machine, printing means arranged in printing position in the machine, printing devices, normally inactive means for consecutively feeding the printing devices into printing position, normally active means for consecutively feeding matter to be printed into printing position, trip means rendered operable by each piece of matter moving into printing position for rendering the printing and devices-feeding means active and the matter-feeding means in-



active, and means for maintaining the devices-feeding means active and the matter-feeding means inactive until a printing device is moved into printing position, said trip means being normally conditioned for cyclical operation, said operation being suspended after tripping has taken place until a printing device reaches printing position.

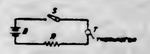
2,406,041
CHEMICAL PROCESS
Helmuth G. Schneider, Roselle, and James E. J. Kane, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 20, 1944, Serial No. 531,993
9 Claims. (Cl. 252—42.7)

1. The process of improving the water-sensitivity of a metal salt containing at least one grouping having the general formula

$$M—O—Ar(R)_n—Z_{n'}$$

where M is a metal connected through oxygen to an aromatic nucleus Ar containing one or more alkyl substituents R, n indicates the number of such substituents, Z is a member of the sulfur family, and n' indicates the number of Z radicals, which comprises blowing a solution of the said salt in an inert solvent with a weakly acid gas in the presence of H_2O.

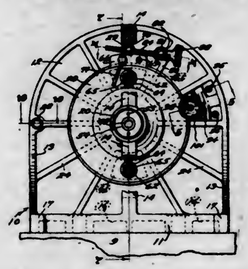
2,406,042
CARRIER TELEGRAPH SYSTEM
Roy B. Shanck, Douglas Manor, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1942, Serial No. 451,905
9 Claims. (Cl. 178—66)



1. A carrier telegraph transmitter adapted to impress on the line signals corresponding to marking and spacing conditions, means for changing gradually from the one condition to

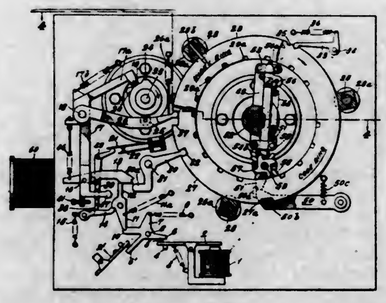
the other in going from marking to spacing and the reverse, the said means comprising relatively slow-acting thermistor elements and means to vary their temperatures between respective values corresponding to marking and spacing conditions.

2,406,043
FIXTURE FOR HOLDING AND MEASURING WORK AT SELECTIVE ANGLES
Otto E. Sorensen, Fairfield, Conn.
Application October 31, 1942, Serial No. 464,052
22 Claims. (Cl. 33—174)



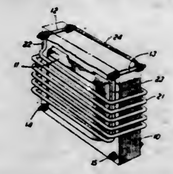
1. A measuring and layout device or the like for temporarily holding a work object firmly in selective and shiftable exact angular positions, embodying in combination, a support base carrying a stationary index indicium, a rotatable face plate equipped with means to fasten a work object fixedly thereto in arbitrarily inclined position, a wheel associated with said face plate in a manner to rotate relatively thereto and carrying a series of angle measuring indicia adapted to register with said index indicium, bearing means on said support base rotatably supporting said plate, and cooperative means united respectively with said face plate and support base excluding said wheel constructed and arranged releasably to fasten said plate directly to said support base while said wheel remains free for rotary movement relative to said plate and base.

2,406,044
SELECTING MECHANISM
James A. Spencer, Teaneck, N. J., and Leonhard F. Reinhold, Staten Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application June 30, 1944, Serial No. 542,926
19 Claims. (Cl. 178—34)



1. Orientation setting mechanism for a rotatable shaft, comprising a plurality of internally notched selector rings each corresponding to an element of a selective code signal, a motor adapted to run constantly during the operation of said mechanism, means for driving selected ones of said rings from an unselected to a selected position, said means including transmission gear and a positive clutch driven by said motor, tripping mechanism for causing the clutch to be engaged and to rotate through a single cycle, a cam rotatable with the intermittent element in said clutch, a reciprocating device including a plurality of coaxially pivoted thrust bars and a cam follower engaged with said cam, marking-code-signal-responsive storage means for selecting a permutational combination of said thrust bars, levers individually associated with said thrust bars and individually engaged with peripheral notches in respective ones of said code rings, control members in said storage means for selecting certain ones of said thrust bars for simultaneous actuation of said levers, an exploring arm mounted on said orientable shaft and arranged to seek and to be arrested by an alignment of code notches in said rings, a friction clutch driven by said motor for urging said orientable shaft to rotate, and a start-stop detent under control of the actuated code rings for releasing said exploring arm from a homing position, and for arresting the same after it has been arrested at, and been released from, a selected position of orientation.

2,406,045
INDUCTANCE DEVICE
Bruce E. Stevens, Demarest, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 30, 1944, Serial No. 538,065
9 Claims. (Cl. 175—356)

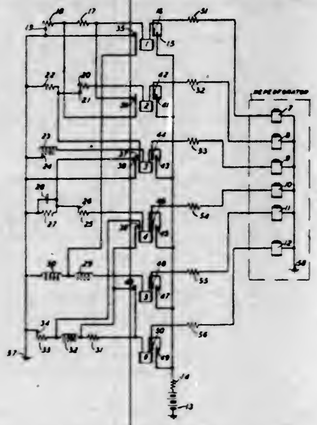


1. An inductance device comprising a magnetic core, a main winding wound only on one portion of said core and adapted to be traversed by alternating current of a definite frequency, said core having such a configuration that a second portion of said core external to said winding is traversed by a flux rich in harmonics of the fundamental frequency of said current, and means for reducing the stray field from said core, said means comprising a closed circuit of negligible resistance comprising an auxiliary winding surrounding said core and said main winding and coaxial with said main winding, a portion of said auxiliary winding being enclosed only by said second core portion, said auxiliary winding portion and the remainder of said auxiliary winding being so connected that the current flow in said auxiliary winding produced by the flux traversing said second core portion produces a magnetic field opposed to the stray field of said device.

2,406,046
TELEGRAPH SIGNAL ENCIPHERING KEY TAPE PRODUCING DEVICE
Burdette S. Swezey, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1942, Serial No. 443,908
8 Claims. (Cl. 178—22)

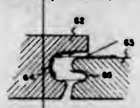
1. In a mechanism applicable for enciphering multielement permutation code telegraph signals,

a group of vibrating relays for determining the individual marking and spacing elements in the



multielement cipher code and a single vibrating relay for automatically controlling the registering of the elements determined by said group.

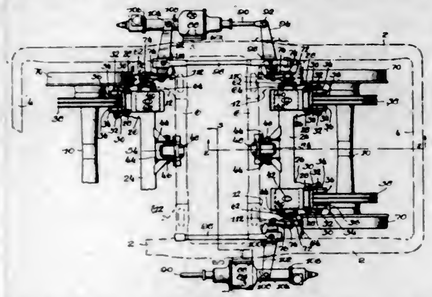
2,406,047
PROTECTION AGAINST BULLET SPATTER
Willard E. Swift, Jr., Worcester, Mass.
Application February 18, 1943, Serial No. 476,362
1 Claim. (Cl. 109—78)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A door joint comprising, in combination, a hatch member having a hatch way with an arcuate shaped recess on the inner side thereof, a hatch cover having an extending marginal portion for overlapping the marginal portion of the hatch in said hatch member when it is engaged therewith, the underside of said projecting overlapping portion receding into the arcuate contour of a recess in the outer side of said hatch cover, said arcuate shaped recess having the bottom side thereof in substantially the same horizontal plane with the bottom portion of the recess in the inner marginal portion of said hatch member.

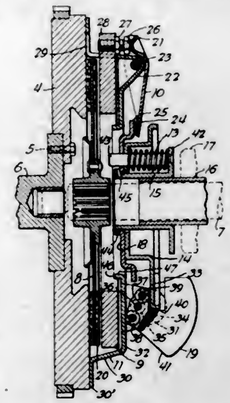
2,406,048
RAILWAY BRAKE
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 4, 1943, Serial No. 504,821
29 Claims. (Cl. 188—53)

1. In a brake arrangement for a railway car truck, a truck frame having spaced side rails and spaced transoms connected therebetween, a gusset formed at the juncture of each transom with each of said side rails, a pair of brackets depending from each gusset, wheel and axle assemblies supporting said frame and comprising spaced axles with wheels mounted thereon, levers carrying friction means for engagement with the peripheries of said wheels, a brake support member adjacent each of said assemblies, friction means on said support members for engagement with braking surfaces on said assemblies, each end of each of said support members having a lug for reception within one of the adjacent pair of said brackets, said levers being received within the other of said brackets, and pivot means securing said levers to said lugs within the associated brackets, said pivot means comprising a



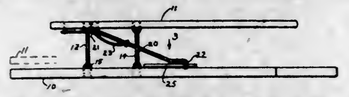
rigid member extending through each of said levers and through the adjacent of said lugs, the connection between said lugs and said rigid members comprising means affording relative lateral movement between the truck frame and said support members.

2,406,049
AUTOMATIC CLUTCH
W. Vincent Thelander, Auburn, Ind.
Application May 3, 1944, Serial No. 533,817
15 Claims. (Cl. 192—105)



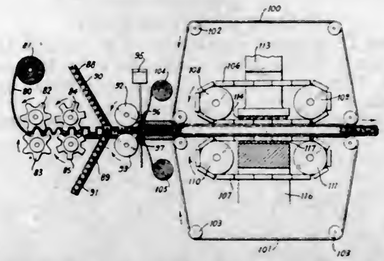
11. In a clutch actuating mechanism for a lever controlled clutch mechanism, the combination with the levers, a back plate, and a throw-out means movable toward and away from the back plate, of a pressure transmitting element arranged to engage, move, and transmit pressure to the levers to engage the clutch, spring means for applying pressure to the pressure transmitting element, a spring loading ring operatively associated with said spring means, forked projections on the back plate slidably receiving therebetween peripheral portions of said spring loading ring for movement toward and away from the back plate, and centrifugal fly-weights having pivotal cross-head portions slidably pivotally mounted in said forked projections and arranged by engagement at its opposite ends with the back plate and said peripheral portions of the spring loading ring to force the latter away from the back plate in the spring loading direction when said weights swing outwardly under centrifugal force.

2,406,050
IRONING BOARD
Max Tronic, Worcester, Mass.
Application October 7, 1944, Serial No. 557,642
2 Claims. (Cl. 38—137)



1. A folding ironing-board comprising a base, a board, parallel links connecting said board in swinging relation to said base, a brace rod pivoted at the under side of said board and having a down-turned locking end, and a guide-plate on said base having an angularly disposed guiding flange for said brace and having an opening to receive the locking end of said brace when said board is in raised and operative position, said guiding flange being positioned to be engaged by said locking end and to automatically direct said locking end transversely of said guide-plate into said opening as the board is raised to operative position.

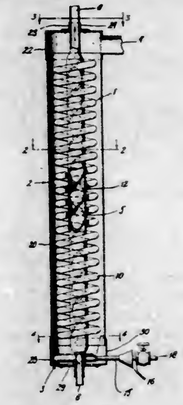
2,406,051
APPARATUS FOR PRODUCING CORRUGATED STRUCTURES
Gerhart Weiss, Sunnyside, N. Y., assignor of twenty-five per cent to Paul Porzelt, New York, and twenty-five per cent to Fritz Lunzer, Kew Gardens, N. Y.
Application June 26, 1943, Serial No. 492,409
1 Claim. (Cl. 154—30)



An apparatus for continuously producing corrugated material which comprises means for preshaping fibrous sheet material, a second means for shaping said sheet material into rectangular corrugated form, means for introducing core members into the corrugations formed in said corrugated material, means for advancing said corrugated material containing said core members, means for pressing liner elements in contact with said corrugated material containing said core members, said means for advancing said corrugated material moving at a greater rate of speed than said means for pressing liner elements onto said corrugated material.

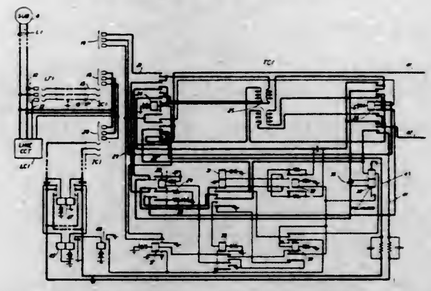
2,406,052
SIDE ARM HEATER
Celestin Eugene Willig, Buffalo, N. Y.
Application February 19, 1945, Serial No. 578,781
2 Claims. (Cl. 122—245)

1. In a side arm water heater, a coil assembly comprising a substantially straight vertical central water tube of relatively large diameter, a water inlet pipe of smaller diameter than said central tube extending axially from the lower end of said central tube, a water outlet pipe of smaller diameter than said central tube extending axially from the upper end of said central tube, a second water tube of smaller diameter than said central tube and having a series of convolutions surrounding said central tube in spaced relation thereto and generally concentric therewith, means connecting the upper and lower ends of said second water tube with the upper and lower ends, respectively, of said central tube



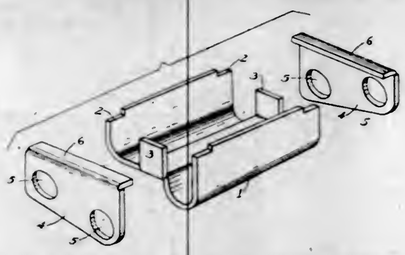
whereby the water flows upwardly through said two water tubes in parallel, and a helically twisted ribbon in and extending substantially the full length of said central tube and impeding the flow of water therethrough thereby to divert an increased proportion of water through said second water tube.

2,406,053
TELEPHONE SYSTEM
Paul L. Wright, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 2, 1944, Serial No. 552,403
10 Claims. (Cl. 179—27)



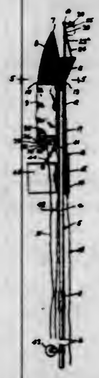
1. In combination in a telephone system, a trunk circuit including an attenuation pad comprising resistors normally connected in series with the talking conductors of said trunk circuit, an operator's cord connected to said trunk circuit, a pad control relay for short circuiting said resistors, means including a normally high impedance element connecting said relay to one of said talking conductors, a direct current source connected to the talking conductors of said cord, a ringing current source, and a ringing key in said cord for connecting said ringing current source to the talking conductors of said cord in place of said direct current source, the voltage of said direct current source being insufficient and the voltage of said ringing current source being sufficient to effect the operative energization of the winding of said relay.

2,406,054
SILO AND TANK LUG
Clarence S. Anderson, Des Moines, Iowa
Application July 26, 1944, Serial No. 546,701
2 Claims. (Cl. 217—95)



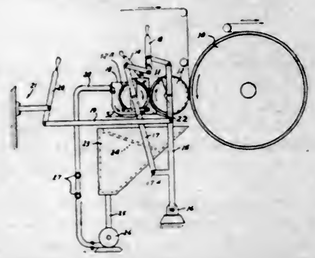
2. In a silo and tank lug, a formed sheet metal open-ended channel body member having two individual channels tilted at opposite angles to receive tank band ends, the free edges of the outer walls of said channel member being notched at their ends, and a separate closure member secured to each end of said channel member, each closure member having an inturned flange extending across said channels and lying in said notches, each of said closure members having a hole aligned with each channel.

2,406,055
FRUIT PICKER
Lonnie Barber, Danville, Va., assignor of twenty per cent to Dubose Younger and twenty per cent to William Glaise, both of Danville, Va.
Application December 4, 1943, Serial No. 512,925
1 Claim. (Cl. 56—340)



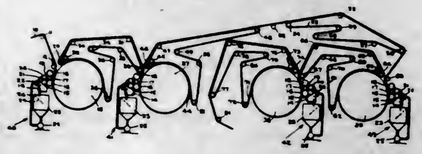
A fruit picking device, comprising, a pole, a funnel-shaped chute carried by one end of said pole, sloping at its top, inwardly and downwardly in a plane disposed at an acute angle to the axis of the pole, a half-conical guide also carried by the end of said pole, and open at its top and along a side confronting the opening in the chute, a container carried by the chute and into which fruit from the chute is received, said container being open at its bottom, a movable closure at the bottom of the container, a guide on said pole, a rod carried by said pole and extending longitudinally thereof through said guide and slidable along said pole, a picking element at the end of the rod adjacent said chute, a spring, operatively engaging the rod and pole to maintain the picker in extended position and operating means connected to the rod.

2,406,056
MEANS FOR COATING PAPERS
William Barrett, International Falls, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application November 24, 1943, Serial No. 511,753
12 Claims. (Cl. 91—49)



1. An apparatus for coating a continuous web of paper or analogous material, a web carrying roll; a resilient surfaced applicator, a fountain having an open side directed toward the applicator roll so that the said applicator roll and fountain form a coating material compartment, a doctor roll mounted in the fountain for cooperating with the applicator roll in controlling the amount of coating material applied to applicator roll, and means for supplying coating material to the fountain at a point in a plane between the middle of the doctor roll and the top of the fountain.

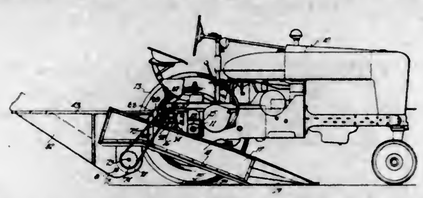
2,406,057
COATING APPARATUS
William H. Barrett and Bernard K. Asdell, International Falls, Minn., assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application November 30, 1944, Serial No. 565,926
12 Claims. (Cl. 91—49)



1. In a coating unit including a backing means, an applicator roll for transferring coating material to a material to be coated supported by the backing means, a fountain having an open side directed toward the applicator roll so that the fountain and the applicator roll form a coating container, a metering roll mounted in the fountain at a selected distance from the applicator roll, and a doctor roll above the applicator roll at a selected distance therefrom.

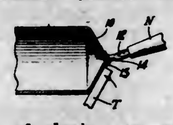
2,406,058
COTTON HARVESTING MACHINE
Claude T. Boone, Sr., Dallas, Tex.
Application September 3, 1943, Serial No. 501,070
9 Claims. (Cl. 56—33)

1. A cotton harvesting machine including an inclined frame adapted for sliding engagement with the ground at its forward end, a pair of guides having curved, confronting edges defining a passageway, one of said guides being yieldable with respect to the companion guide, a pair of relatively parallel rollers rotatably mounted in said frame and spaced apart to define a continuation of said passageway, a trough on each side of the roller assembly, means for rotating said rollers in counter directions, a coupling of resilient material connecting one of said rollers at one end to said driving means, a collar embracing the roller adjacent said resilient coupling and held under constant spring tension to main-



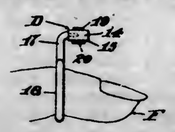
tain spaced relationship of said rollers, spring means for mounting the opposite end of said roller for yielding movement relative to its companion, a tapered conveyor disposed in said troughs below the axes of said rollers for receiving material harvested thereby and conveyor means for receiving the discharge of said tapered conveyors.

2,406,059
PROCESS OF SPINNING HOLLOW ARTICLES
Charles J. Burch, Plainfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application June 10, 1943, Serial No. 490,295
2 Claims. (Cl. 29—148.2)



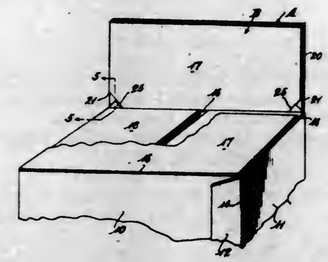
1. A method of closing an end of a tubular metal article which comprises rotating said article about its longitudinal axis while initially applying a group of heating flames longitudinally to a portion of the article extending back from the open end to be closed; applying pressure inwardly against such heated end portion while the article is rotating, to spin inwardly said heated portion and the periphery of its end edge and thereby progressively close said end of said article; and, before said end is completely closed and while continuing such rotation and such application of inward pressure, directing an auxiliary flame, separate from said group of flames, against said end edge and the part adjacent thereto, to provide sufficient additional heat to melt metal along said edge at the final closing zone, whereby oxide inclusion is eliminated from said closing zone as said end is completely closed during the continuance of such rotation and such application of inward pressure.

2,406,060
HAIRPIN SPREADER
Eve Byron, South Gate, Calif.
Application August 30, 1944, Serial No. 551,935
4 Claims. (Cl. 132—1)



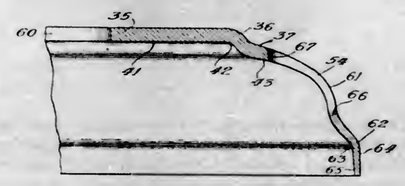
1. A spreader for hair pins of the normally closed type comprising a wedge-shaped spreader element adapted to be introduced between the side members of a hair pin to spread the latter, a split finger ring, and an extension of said ring at one side of its split carrying said spreader element in outwardly and laterally offset spaced relation to the ring.

2,406,061
SIFTPROOF CARTON
Thomas F. Cass, Jr., Wayne, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application April 28, 1944, Serial No. 533,128
4 Claims. (Cl. 229—14)



1. A folding carton formed from a sheet of paperboard having a sheet of lining material adhesively secured to its entire inner surface including a plurality of adjacent side wall panels and a plurality of closure flaps integrally joined to said panels along a score line, said closure flaps being defined from adjacent flaps by cuts extending completely through said sheet of paperboard substantially to said score line and extending through said sheet of lining material only to points slightly but substantially removed from said score line.

2,406,062
METHOD FOR MAKING DISHED DISK WHEELS
Dana R. Cornell, East Chicago, Ind., assignor to Standard Forgings Corporation, Chicago, Ill., a corporation of Delaware
Application August 24, 1944, Serial No. 550,959
1 Claim. (Cl. 29—159.01)



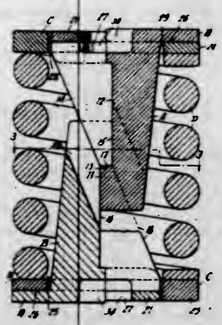
The method of making a deeply dished disk wheel having a relatively flat hub center and axially dished web portions terminating in a cylindrical rim portion, which comprises the step of preforming a relatively flat forged steel disk with an annular hub portion of substantially uniform thickness surrounded by an annular rim portion and a relatively thickened annular portion between the hub and rim portions, yieldably clamping the periphery of the rim portion while initially bending the disk axially at said thickened portion and utilizing the metal of said portion to make the thickness of the bend substantially

conform with that of the hub portion, and also bending the peripheral rim portion as it gradually slips from between the clamping means preventing wrinkling of the metal as the diameter and circumference of the disk are reduced, thus providing the disk with two axially curved concentric major bends connected by a frusto-conical web portion in the initial bending operation, simultaneously punching a central aperture in the hub center portion and a plurality of hand holes in the web portion, and finally bending and axially curving the web portion while maintaining the concentric bends substantially as formed, whereby the disk is deeply dished and the periphery of the rim portion is disposed substantially at right angles to the hub portion.

2,406,063
DENTAL CEMENT
Walter S. Crowell, Melrose Park, Pa., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
No Drawing. Application August 19, 1944, Serial No. 550,322
4 Claims. (Cl. 106—35)

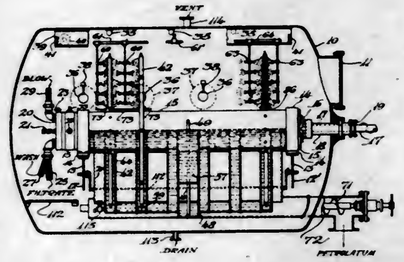
1. A dental cement liquid adapted to be mixed with a cement powder to produce a cavity filling, comprising a liquid solution which includes eugenol and a relatively low percentage of acetic acid.

2,406,064
SHOCK ABSORBER
George E. Dath, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 4, 1943, Serial No. 512,862
7 Claims. (Cl. 267—9)



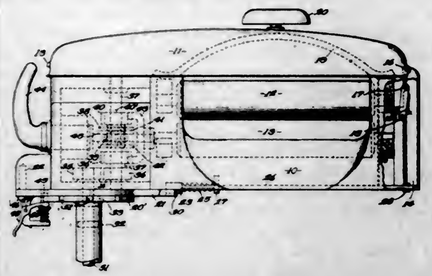
1. In a shock absorber, the combination with a pair of lengthwise slidable friction posts having shouldered engagement with each other to limit lengthwise separation thereof, said post having a supporting base portion provided with a flange at one side and a lateral projection at the opposite side thereof; of a pair of follower plates cooperating respectively with said posts, said plates bearing on the projections of said base portions of said posts, each follower plate having a flange, with a portion of said flange in overlying shouldered engagement with the flange of the base portion of the corresponding post, said base portion extending through the corresponding follower plate and projecting outwardly beyond the same and a coil spring surrounding said posts, said spring bearing at its opposite ends on the flanges of said follower plates respectively.

2,406,065
CONTINUOUS DISK FILTER
John T. Dickinson, Basking Ridge, and Arthur R. Moorman, Alpine, N. J., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application January 31, 1942, Serial No. 429,044
12 Claims. (Cl. 210—200)



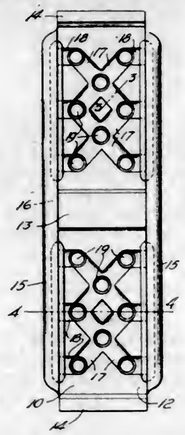
1. In a continuous rotary disk filter comprising a casing, a substantially horizontal rotatable shaft in said casing, a plurality of filter sectors mounted on said shaft to form a plurality of filter disks, interconnected slurry tanks for the lower part of said disks, a filter cake discharge means between adjacent slurry tanks, deflector blades for deflecting filter cake from said disks into said discharge means, means for mounting said deflectors for movement toward and away from the filter disks and also for movement in a radial plane of the filter disk and resilient means for holding each end of said deflectors against the filter disks.

2,406,066
PIVOTAL FRAME WRINGER
Nicholas L. Etten, Waterloo, Iowa
Application September 3, 1943, Serial No. 501,180
6 Claims. (Cl. 68—263)



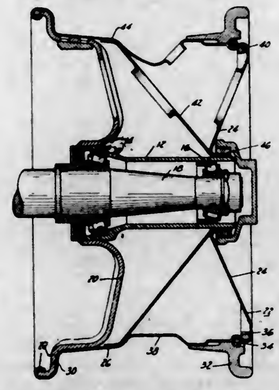
1. In a wringer, the combination of a wringer frame including a plurality of rolls rotatively mounted in said frame, pressure means for the rolls, a drive shaft, a reversing gear mechanism connected with the drive shaft, a gear housing portion constituting a single side wall thickness surrounding the reversing gear mechanism, a mounting plate, and a vertical pivot mounted on the mounting plate and connecting with said plate the wringer frame and gear housing, the entire wringer frame and gear housing being pivotally mounted on the mounting plate at a point substantially spaced away from the end of the gear housing opposite the roll supporting frame, so that all portions of the gear housing and frame are arranged for and subject to movement by exterior forces applied to any point on the gear housing or frame; and a release actuating mechanism operatively interconnecting the shiftable portions of the frame and gear housing with the relatively stationary mounting plate and adapted to operate in response to pivotal movement between the frame and the plate, said release actuating mechanism including a detent adapted to releasably secure the frame in predetermined position with respect to the plate.

2,406,067
AIR-COOLED BRAKE SHOE
Carl C. Eurit, Tulsa, Okla.
Application January 23, 1945, Serial No. 574,117
4 Claims. (Cl. 188—264)



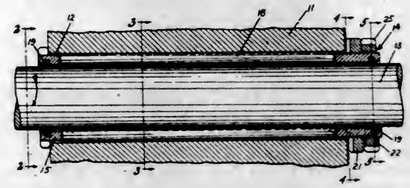
1. A brake shoe having a body provided with a series of ventilating perforations, and air gathering baffles extending along and spaced from the sides of said body.

2,406,068
WHEEL CONSTRUCTION
Frederick C. Frank, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 20, 1944, Serial No. 545,769
1 Claim. (Cl. 301—63)



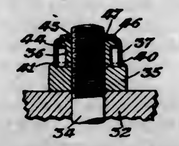
In a wheel structure having a hub and a supporting disc secured to the hub at one side of the wheel, a unitary member constituting both the rim of the wheel and a supporting disc at the opposite side of the wheel, said member being secured to the hub at one end and to the outer portion of the first-mentioned supporting disc at the other end, and a ring-shaped reinforcing member located inside said unitary member at the curved surface between the rim and supporting disc portions of said unitary member, said ring-shaped reinforcing member constituting a support for the edge of said unitary member, and said rim having an annular depression to lock said reinforcing member against axial displacement.

2,406,069
BEARING
Walter R. Freeman, St. Louis County, Mo.
Application November 1, 1944, Serial No. 561,397
7 Claims. (Cl. 308—184)



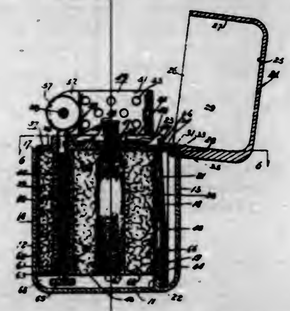
1. In a bearing for cooperation with a shaft and a surrounding support, a cage having circumferentially spaced elongated members, means for securing the members from relative movement, rollers having yieldable surfaces with each roller being positioned between two members and confined thereby, said rollers being of a diameter greater than the radial thickness of the members and capable of contacting the shaft and support for rolling engagement on their surfaces, radially extending slotted shoulder means carried by one end of the elongated members and a removable radially slotted nut carried by the other end of the elongated members.

2,406,070
LOCK NUT
Rudolph Funk, Warminster, Pa.
Application April 28, 1944, Serial No. 533,215
6 Claims. (Cl. 151—21)



1. A self-retentive nut, comprising a body having, therethrough, a bore which is screw-threaded throughout its working length, a portion of the bore being located within a non-deformable and form-retentive part of the nut body, another part of the nut body being deformable but resiliently influenced so as to be urged constantly to recovery of its normal form, in which form it is contracted and the portion of the nut bore located therein is incidentally constricted to an appreciable degree, whereby, when the nut is placed on the bolt or other element, said contracted part of the nut body is expanded but is reactive to create and maintain a self-retentive clamping effect of the nut upon the bolt or other element to which it is applied around the circumference thereof, and a resilient member confining said contracted part of the nut body and reacting to return this nut body part to its normal form, said resilient member having an intermediate portion spaced from said nut body.

2,406,071
CIGAR AND CIGARETTE LIGHTER
Jack Galter, Chicago, Ill.
Application July 9, 1945, Serial No. 603,893
1 Claim. (Cl. 67—7.1)



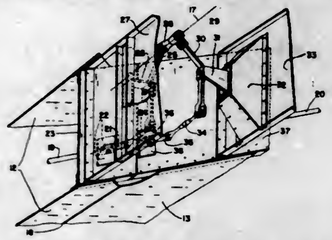
In a cigar and cigarette lighter a casing having closed bottom, front, back, outer and inner side walls and an open top, a pair of spaced ribs formed in the front and back walls, said ribs slightly spaced from the inner side wall, and a connecting member connecting the bottom portions of said ribs, said ribs, connecting member and adjacent portions of the inner side wall, the front, back and bottom walls forming a chamber, a leaf spring positioned within said chamber, said spring bent on itself about a third from its bottom, with the double portion of the spring positioned in the lower portion of said chamber, the lower end of said spring bent to contact said ribs, the upper end of said spring extending slightly beyond the open top of said casing, said front and back walls having integral ears extending from their upper inner corners, a cover having corresponding closed top, front, back and inner and outer side walls, a cam extending beyond and formed integrally with said inner side wall, pivot pins embedded in said cam and extending within said ears to pivotally hinge said cover to said casing, said cam having a radius adapted to engage said spring for holding said cover in desired open and closed positions, said hollow interior of said casing adapted to removably receive a fuel can, said chamber confining said spring and preventing its entry into said hollow interior and interference with the free ingress and egress of the fuel can.

2,406,072
ELECTRODEPOSITION OF METALS AND BATH COMPOSITION THEREFOR
Kenneth M. Gaver, Columbus, Ohio, assignor, by mesne assignments, to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio
No Drawing. Application February 15, 1941, Serial No. 379,127
22 Claims. (Cl. 204—49)

1. A plating bath for the electrodeposition of metal comprising an aqueous solution providing ions of the metal to be deposited and a metal starchate addition agent comprising the reaction product of starch and an alkali metal.

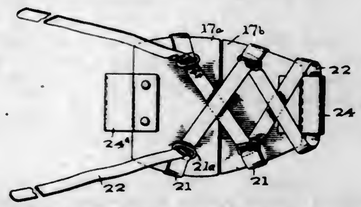
2,406,073
FORCE AND MOTION TRANSMITTING MECHANISM
Gale Griswold and Charles H. Cannon, Jr., Columbus, Ohio, assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application February 1, 1944, Serial No. 520,702
10 Claims. (Cl. 244—49)

1. The combination with cooperating members, one of which is connected to the other for pivotal movement about a predetermined axis, of a pivotally mounted lever carried by one of said members and having a predetermined range of movement, means carried by said last mentioned member for actuating said lever, a pivotally mounted lever carried by the other of said members, means carried by said last mentioned mem-



ber which is adapted to be actuated by said last mentioned lever, and a swivel connecting said levers, the axis of said swivel being and remaining substantially coincident with said first mentioned axis throughout said range of movement but moving to a substantial extent in an axial direction in moving through said range of movement.

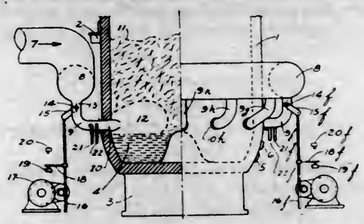
2,406,074
ICE CREEPER
Michael L. Georgopoulos, Washington, D. C.
Application December 30, 1944, Serial No. 570,726
6 Claims. (Cl. 36—7.7)



1. In a quickly attachable and detachable ice creeper for use over either shoes or overshoes, the combination of a pair of substantially rigid plates seating over the sole of the shoe or overshoe, and each having a multiplicity of prongs, a transverse hinge connecting said plates to give flexibility, said hinge being disposed approximately midway of the entire area covered by said plates to permit of folding the plates in overlying position for convenience in transportation when detached, and a strap interlaced over the top of the shoe to permit the foot to be quickly slid into place under the strap, loops secured near the edges of the plates and through which loops the strap is threaded, the strap terminating in free ends of sufficient length to be fastened around the heel and over the ankle to secure the device to the foot.

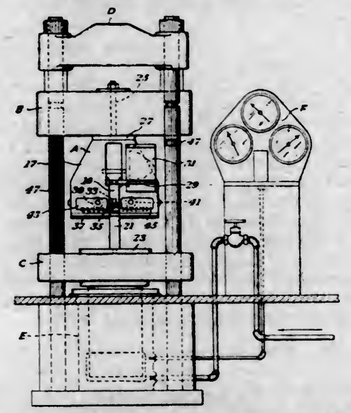
2,406,075
FLUID CONTROL DEVICE
Will Tom Graves, Jr., and Thomas E. Curtis, Birmingham, Ala.
Application June 5, 1944, Serial No. 538,858
10 Claims. (Cl. 266—30)

1. In combination with a blast furnace, a multiplicity of ducts conducting compressed air from a common source into the furnace, a motor-operated air-controlling device associated with each duct, automatic control means responsive to variations of air-flow through each duct and operable to cause energization of the motors to regu-



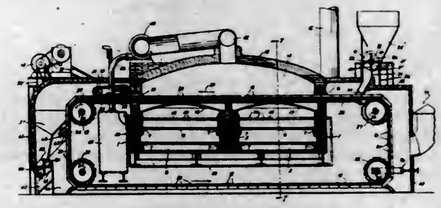
late the air-flow in all ducts, together with means to interrupt the said energization of the motors at regular predetermined intervals.

2,406,076
APPARATUS FOR DETERMINING WELDABILITY
Julius Heuschkel, Mount Lebanon, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application June 9, 1943, Serial No. 490,212
2 Claims. (Cl. 73—89)



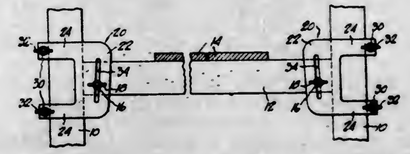
2. Apparatus for determining the weldability of metals, which comprises, in combination, a frame adapted to be attached to a platen of a testing machine operating in compression, a crosshead slidably mounted in the said frame and adapted to move vertically in the said frame under deforming pressures exerted on a welded specimen of metal received in the said crosshead, spaced-apart deforming instrumentalities rigidly but removably mounted in the frame and adapted to be engaged by the specimen, means for applying deforming forces against the said specimen, means for indicating amounts of the said forces, a scale secured to the said crosshead and extending horizontally therefrom, the said scale being graduated into values corresponding to the amounts of deforming forces applied to the specimen, the said crosshead and scale being vertically movable responsively to deformation of the said specimen, the said movement being an indication of the amount of deflection of the specimen under deformation thereof, and a chart support located in a plane parallel to movement of the scale, and adjacent to the said scale, whereby the said deforming forces may be manually plotted against deflection during deformation of the specimen, thereby producing an energy-absorption curve corresponding to amounts of energy absorbed by the specimen during deformation thereof until ultimate deformation of the specimen is reached.

2,406,077
COAL DEVOLATILIZER
Andrew F. Howe, University City, Mo., assignor to Centrifugal & Mechanical Industries, Inc., St. Louis, Mo., a corporation of Missouri.
Application June 15, 1944, Serial No. 540,512
7 Claims. (Cl. 202—26)



1. The method of reducing the volatile content of slurry coal, which consists in depositing a layer of slurry coal upon a moving conveyor, moving said conveyor and the layer of loose and unpressed slurry coal thereon into and through a heated oven containing only air and the volatile and gases emanating from said coal, withdrawing said air and said volatile and gases emanating from said coal during movement of said coal through said oven, and compressing and applying pressure to form said layer of coal into solid bodies or briquettes after said layer has been moved through said oven by said conveyor.

2,406,078
SCAFFOLD BRACKET
Clarence W. Hushower, South Bend, Ind.
Application April 21, 1945, Serial No. 589,600
11 Claims. (Cl. 304—32)



1. A scaffold bracket for securing a horizontal scaffold member to a post, comprising a pair of flat C-shaped plates adapted to bear against opposite side faces of a post, said plates having thickened terminal portions providing vertically aligned shoulders engaging the outer face of said post and a vertical central web slotted in spaced relation to the inner face of said post and inclined downwardly and outwardly relative to the plane of said shoulders, means securing said terminal portions together, and securing means carried by said horizontal member and slidable in said inclined slots to guide said horizontal member into firm end abutment with said post upon downward movement of said member relative to said post and bracket.

2,406,079
WASHER LUG
Fred G. Krueger, Norwood, Ohio
Application January 19, 1944, Serial No. 518,860
2 Claims. (Cl. 173—269)

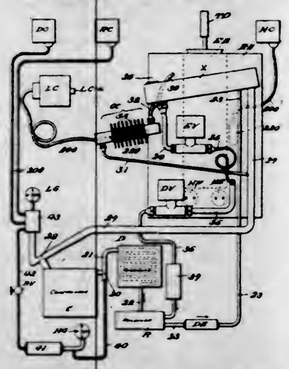
2. As a new article of manufacture, a washer lug comprising a pair of head elements each having an aperture therein to receive a fastener, a flexible elongated connecting neck portion joining the head elements and adapted for bending transversely thereof in folding one head element over the other into substantial parallel adjacency,

the neck portion being sufficiently long with a uniformity of width to impart uncertainty as to the location of the line of bending when one head element is folded over the other as stated, said neck portion being transversely weakened to es-



tablish a definite line of bending and thereby obviating the uncertainty aforesaid, so that the head apertures are induced to align for reception of a fastener without the exercise of special care in performing the bending operation.

2,406,080
TESTING ASSEMBLY
James Madison Laird, Charleston, W. Va.
Application July 18, 1942, Serial No. 451,509
18 Claims. (Cl. 257—3)

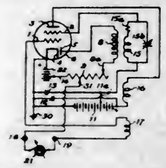


13. In an apparatus for producing in a chamber rapid transitions between selected temperatures, means for heating said chamber, a first means for cooling said chamber and including a refrigeration system, and a second cooling system for delivering a cooling liquid for heat exchange with said chamber independently of the operation of said first cooling means, said second cooling system including discharge means for freeing said cooling system of cooling liquid during times when the heating means or the first cooling means are in operation for establishing respectively high or low temperatures, whereby the second cooling system can be made effective for provoking a rapid transition from a high to a low temperature without load on the said refrigeration system and whereby the said second cooling system places essentially no load upon the heating means and first cooling means when either of the same is in service.

2,406,081
POLYMERIZATION OF OLEFIN HYDROCARBONS
William A. La Lande, Jr., and Heinz Heinemann, Upper Darby, Pa., assignors to Porocel Corporation, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application November 7, 1944, Serial No. 562,405
9 Claims. (Cl. 260—683.15)

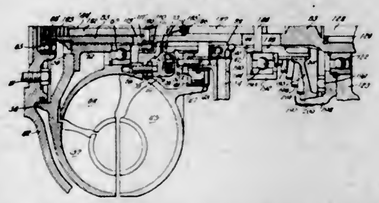
1. The method of polymerizing normally gaseous olefins to liquid hydrocarbons, which comprises contacting said olefins at a polymerizing temperature below 350 degrees F. with bauxite which has been activated by heating at a temperature between 700 degrees F. and 1800 degrees F. to a residual moisture content of not more than 6% by weight.

2,406,082
ELECTRONIC FREQUENCY-CONTROL DEVICE
Edward H. Lange, Baltimore, Md.
Application October 30, 1943, Serial No. 508,367
17 Claims. (Cl. 250—36)



16. The combination with a thermionic amplifier of a current-limiting device for limiting the amplitudes of cathode-anode alternating currents, said amplifier having a thermionic tube with a cathode, an anode, and a grid for controlling thermionic currents between said anode and said cathode, a conductive input-impedance connected between said grid and said cathode, and an output-impedance connected between said anode and said cathode, said current-limiting device comprising a closed conductive circuit serially including a diode-anode with said cathode, a constant bias-voltage source, a transfer-impedance, and a coupling means coupled with said output-impedance, said bias-voltage negatively biasing said diode-anode from said cathode, and a second coupling means coupled with said transfer-impedance, connected in series with said input-impedance between said grid and said cathode, for transferring alternating voltages from said transfer-impedance to said grid.

2,406,083
TRANSMISSION
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Original application July 10, 1943, Serial No. 494,439. Divided and this application February 23, 1944, Serial No. 523,773
5 Claims. (Cl. 60—54)



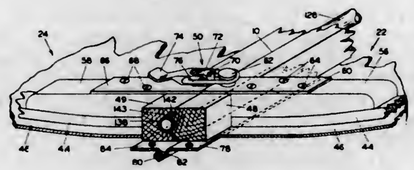
1. In a transmission, a housing containing a fluid unit and a transmission, said unit including an impeller, a stator free to turn in a forward direction, and a turbine, a shaft driven by said turbine, a sliding hub adjacent said stator and having ratchet teeth, said hub having helically splined engagement in said housing, means carried by said stator including ratchet teeth, and means carried by said stator engaging said hub and operable upon reverse rotation of said stator for engaging said ratchet teeth to prevent said rotation.

2,406,084
SHIP OR VESSEL
Abraham J. Levin, Detroit, Mich.
Application March 24, 1945, Serial No. 584,607
9 Claims. (Cl. 114—77)



1. An assembled vessel comprising a hull member having its amidships section considerably below its prow and stern sections, the hull generally being substantially free of variable load factors so as generally to have a substantially non-variable buoyancy, the hull normally floating with its amidships section well below the water level and with its prow and stern sections well above the water level, and a plurality of cargo-containing tank members, each being hollow and buoyant and each being capable of being floated into the hull to occupy the space therein above the amidships section, and to fit between the prow and stern sections, the hull and the tanks being individually buoyant, before, during, and after assembly, each member floating at substantially the same level after assembly as before and during assembly with all members floating at substantially the same level, the tanks having means for permitting their buoyancy to be adjusted so that they can float free of the hull even after assembly, the tanks and hull being so shaped that when relatively assembled they form a vessel, all of whose members float, and means for relatively securing the tanks and hull against relative separation when relatively assembled with the tanks and hull individually floating.

2,406,085
SECTIONAL CANOE OR THE LIKE
Edwin A. Link, Binghamton, N. Y.
Application May 19, 1944, Serial No. 536,293
5 Claims. (Cl. 9—2)

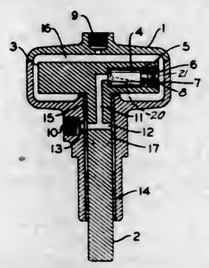


1. A sectional canoe comprising a plurality of separable transversely opposite hull sections, means within said hull sections for securing said transversely opposite hull sections in their proper relative positions when the sections are assembled, and a member hook-shaped in cross-section and extending substantially the entire length of one of said hull sections attached to the outside of one of said hull sections and arranged to cooperate with a member hook-shaped in cross-section and extending substantially the entire length of the transversely opposite hull section and attached to the outside of the transversely opposite hull section for forming a keel and at the same time holding said hull sections in their proper relative positions when the sections are assembled.

2,406,086
ALKYLATION OF ISOPARAFFINIC HYDROCARBONS
Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 16, 1943, Serial No. 502,664
7 Claims. (Cl. 260—683.4)

1. An alkylation process which comprises reacting an isoparaffin with an olefin in the presence of a liquid hydrogen fluoride catalyst to which has been added a minor proportion of hydrogen cyanide.

2,406,087
VALVE
Marion Mallory, Detroit, Mich.
Application June 18, 1942, Serial No. 447,566
2 Claims. (Cl. 137—140)

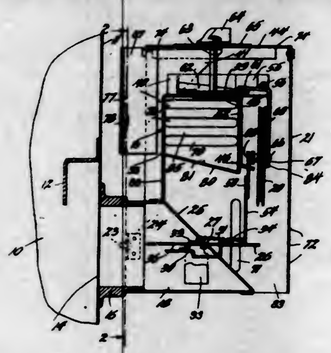


1. In combination, a rotor comprising a shaft having an axial passageway, an outlet in said shaft, a passageway extending from said outlet inwardly into communication with the axial passageway, a cylinder mounted on said shaft and extending transversely of the axis of rotation of the shaft, an inlet into said cylinder, a communication between the said cylinder and the axial passageway in the shaft, a valve controlling said inlet, a piston mounted for reciprocation in said cylinder and carrying said valve, said piston and valve being located between said inlet and the communication between said cylinder and said axial passageway, a passageway establishing communication between opposite ends of the piston, resilient means opposing the closing of said valve, said valve throughout one range of rotational speed of the rotor remaining closed to thereby close the inlet port and throughout another range of rotational speed of said rotor remaining open to thereby permit the air to flow through the inlet, passageway, axial passageway and out of the said outlet, the said valve and piston being centrifugally unbalanced and arranged to close in a direction opposing the flow of air from the inlet to the outlet.

2,406,088
HEAT REGULATOR
Perry S. Martin, Harrisonburg, Va.
Application December 6, 1941, Serial No. 422,012
8 Claims. (Cl. 236—95)

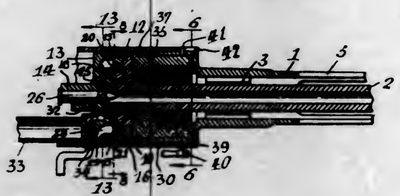
1. In a draft regulator for solid fuel burning space heaters, a horizontal draft tube, a draft damper controlling the flow of air therethrough to the heater, a vertical baffle above the draft tube, a reflector cooperating with the vertical baffle to form a vertical passageway adjacent the heater, walls forming a second vertical air passage spaced from the previously mentioned passageway, walls forming a horizontal air passage

communicating with the upper ends of the two vertical passageways, a thermostat within the second passageway, and a sloping wall directing heated air from the spaced passage to a point just above the draft tube, whereby when the damper is open heated air will pass upwardly



between the baffle and the reflector and thence downwardly past the thermostat, thus making the thermostat more responsive to changes in the heater temperature when the damper is open and the room is cool than it would be if the heated air were not thus circulated.

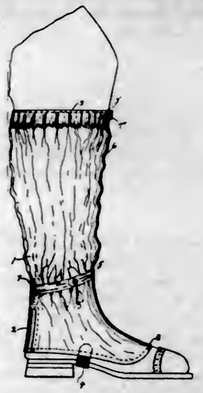
2,406,089
ROTARY BARREL GUN
Joseph Albert Euclide Martineau, Penticton, British Columbia, Canada
Application April 8, 1944, Serial No. 530,100
In Canada April 24, 1943
9 Claims. (Cl. 89—1)



1. In a gun, a casing, a barrel rotatably mounted therein, a rearward breech extension for the barrel, said extension providing a firing chamber, a rotor fixed to said barrel, and means for communicating gas from said chamber to said rotor to actuate the latter.

2,406,090
PROTECTING SHIELD
George N. Mas, Washington, D. C.
Application September 15, 1943, Serial No. 502,537
3 Claims. (Cl. 36—2)

2. A protecting tubular shield comprising a body of light loosely fitting material, said shield having reinforcing means at least at its lower end, a reinforcing means arranged intermediate the ends of the shield and secured thereto, one end of said shield defining a lower portion, said lower portion being interrupted by an elastic vertically arranged gusset, said gusset being reinforced vertically, an elastic shank strap having its ends secured to the lower portion of said shield, separable fasteners on and extending the full length of said shield whereby said shield may be opened and closed along a suitable longitudinal line of said shield, said shield being provided with an ankle portion located above said lower



portion and wherein said intermediate reinforcing means is located at the ankle portion.

2,406,091
SHOE PLATFORM
Colin W. Mathieson, Sedalia, Mo., assignor of thirty per cent to Jules Q. Strong, Ladue, Mo., and fifteen per cent to P. H. Lamphere, Denver, Colo.
Application November 27, 1944, Serial No. 565,212
6 Claims. (Cl. 36—30)

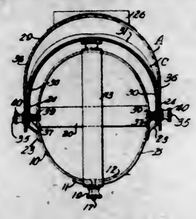


1. In a sole construction, a unitary assembly for use as a resilient foundation means to which can be attached an upper and an outsole, said assembly comprising a sheet of resilient material, shoulder means of relatively firm material surrounding said resilient sheet, said shoulder means and the resilient sheet having overlapping portions and the outer marginal edge of the sheet extending to adjacent the outer marginal edge of the shoulder means on the top side thereof to thus present a top resilient surface extending the entire width of the assembly, and a sheet of nonstretchable material overlying the said top surface of the sheet of resilient material and secured thereto.

2,406,092
AUXILIARY EYESHIELD AND WELDING HOOD
Roger E. Meyer, St. Paul, Minn.
Application February 13, 1943, Serial No. 475,751
4 Claims. (Cl. 2—8)

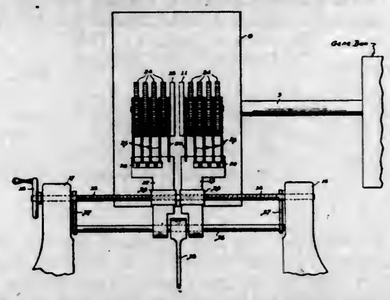
2. A combined welding hood and eye shield comprising a harness designed to fit the head of a welder, opposed clips on said harness, an eye shield including arms projecting into engagement

with said clips, a welding hood extending over said clips, pivot means supported by said clips extending through said arms, said clips, and said welding hood, said clips embracing said pivot means between said arms and said hood to independently pivotally attach said eye shield and



said welding hood to said clips, said hood and said shield being pivotal into position above said harness, and resilient means on said pivot means urging the arms and the hood against said clips for resisting pivotal movement between the pivotally attached elements.

2,406,093
TIRE BUILDING APPARATUS
Edwin Miller, Jeannette, Pa.
Application September 22, 1944, Serial No. 555,264
7 Claims. (Cl. 154—10)



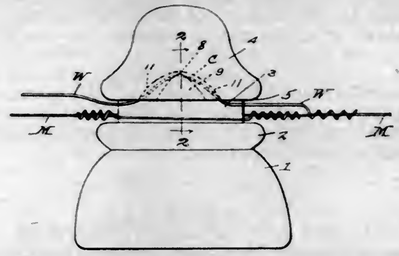
1. Tire building apparatus comprising a rotatable drum for receiving fabric plies, a pair of stitching discs positioned to press the plies on the drum, means for simultaneously shifting the discs in opposite directions, from mid points on the drum face, toward the ends thereof, a pivotally mounted tacking element associated with each stitching disc in position to move in advance thereof, and arranged to effect incomplete adhesion of the plies to one another, and a spring for yieldably transmitting working pressure to the tacking element.

2,406,094
KNIFE AND SCISSOR SHARPENER
Joseph M. Miller, Littleton, Colo., assignor to J. D. Cochran, Grass Lake, Mich.
Application May 17, 1945, Serial No. 594,187
1 Claim. (Cl. 76—87)



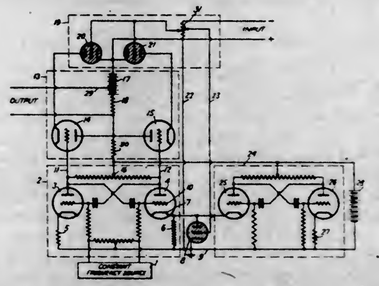
A knife sharpener comprising a substantially triangular base having one of its corners notched and its sides, adjacent to the notch formed with upstanding ears aligned angular scissor guides formed integral with the upper edge of said ears, and spaced from each other at the ends thereof, upwardly extending knife guide portions extending upwardly from the ends of said guides and shaped on the inner sides thereof to conform to the shape of a knife to be sharpened thereby, a sharpening disc pivotally secured to each ear, and the periphery of one of the sharpening discs being in close proximity with the face of the cooperating sharpening disc.

2,406,095
INSULATOR
Martin D. Mathews, Indianapolis, Ind.
Application September 27, 1944, Serial No. 556,017
1 Claim. (Cl. 174—211)



An insulator for preventing the drainage of moisture from a main wire to a duplex wire joined thereto, said insulator comprising a single piece of insulating material providing a body, a neck on the body, and a cap on and having a marginal portion extending outwardly beyond the neck, said neck and cap defining an annular groove for the reception of a portion of a main wire and of a tie wire joined to the main wire, and a node in the cap defined by an arcuate slot opening outwardly under the marginal portion of the cap and into the groove, said slot being curved upwardly and inwardly within the cap, the top of the node constituting an elevated seat for the arched portion of a duplex wire when extending within the groove and upwardly within the slot in the cap.

2,406,096
ELECTRONIC REGENERATIVE REPEATER
Montford Morrison, Upper Montclair, N. J.
Application October 23, 1943, Serial No. 507,424
7 Claims. (Cl. 178—70)



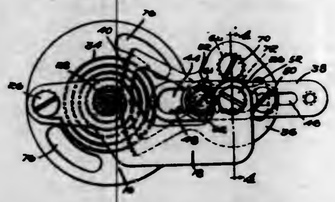
1. In an apparatus for regenerating signal currents in an equal-unit-code telegraph system, an input circuit adapted to receive distorted signal currents in a code of equal-units at random combinations, two electrically associated multi-vibrator circuits, an output circuit, means electrically associated with said output circuit for fixing under operation by said random combinations the period of duration of each of said units in said output circuit by the half-period length of one of

said electronic multi-vibrator circuits, and means for fixing the period of the sum of the total said units of a single operation in said output circuit by the whole-period length of the other of said electronic multi-vibrator circuits.

2,406,097
METHOD FOR PRODUCING WHITE SODIUM ROSINATES
Avery A. Morton, Watertown, Mass.
No Drawing. Application January 21, 1942, Serial No. 427,679
8 Claims. (Cl. 260—105)

3. A process for dividing white alkali metal rosinate from dark alkali metal rosinate characterized by the step of subjecting a heterogeneous mixture of alkali metal rosinates to the solvent action of a solution of rosin in a petroleum solvent, in which the rosin-petroleum solution holds in solution all dark rosinate of the mixture, by its affinity for dark rosinate in preference to white rosinate, while some white rosinate of the said mixture remains undissolved.

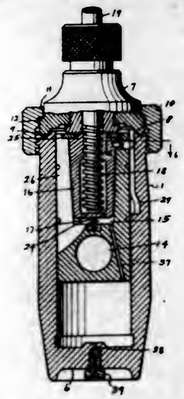
2,406,098
INDEX ACTUATING MECHANISM
Howard George Musgrave, Newton, and Nils G. Olson, Boston, Mass.
Application November 27, 1944, Serial No. 565,312
9 Claims. (Cl. 74—90)



1. Index actuating mechanism, comprising a frame, a two-part member mounted for pivotal movement thereon, one part comprising a segment having arcuately disposed teeth on its outer end and the other part comprising an actuating arm, positive actuating means for adjusting the arm radially of and angularly about the pivot axis of the member and relative to the segment, and releasable means for securing the segment and arm together against relative movement.

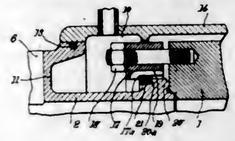
2,406,099
VALVE ASSEMBLY
Arthur J. Penick, Houston, Tex.
Application October 16, 1943, Serial No. 506,610
2 Claims. (Cl. 251—71)

2. A valve assembly comprising, a valve casing having a passageway therethrough for fluid, a controlling assembly in the casing embodying a sleeve valve which is transversely expansible, at one end, and having a transverse bore, at the other end, an expander in the expansible end of the valve having an external socket, a pin slidably mounted in the valve and whose inner end is adapted to project into said socket and whose outer end extends out beyond the valve; means connected with the expander for moving the controlling assembly to one position to align the bore with the passageway and to another position to align the valve with the passageway, said casing having a longitudinal inside, groove whose inner end is outwardly turned, means on the outer end of the pin engageable in and slidable along said groove for retracting the pin from said socket as the controlling assembly moves to said last named position to release the expander to allow its



further movement to expand the valve into close contract with the casing walls around said passageway.

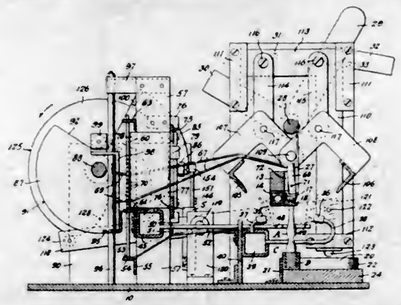
2,406,100
CYLINDER CONSTRUCTION
Raul Pateras Pescara, Lisbon, Portugal
Application April 6, 1944, Serial No. 529,829
In France August 6, 1943
14 Claims. (Cl. 309—2)



5. A cylinder for an opposed-piston engine, comprising in combination a central annular member adapted to form part of the engine combustion chamber, two tubular lateral members coaxial with said central member and disposed each side thereof, said lateral members having collars formed at their inner ends; two split rings adapted to be passed over said collars and to fit radially respectively on one end and the other of said lateral members in the vicinity of the inner ends thereof but behind said collars with respect to said central member, and to abut axially against said collars, each of said split rings having an outer diameter larger than the outer diameter of the corresponding collar; two crowns adapted to fit radially on one and the other of said split rings to press same radially against said lateral members, said crowns being shouldered inwardly, the shoulder having an inner diameter larger than the outer diameter of the corresponding collar, but smaller than the outer diameter of the corresponding split ring and being so disposed as to abut axially against said split ring to press same towards said central member; and means to press said crowns towards said central member.

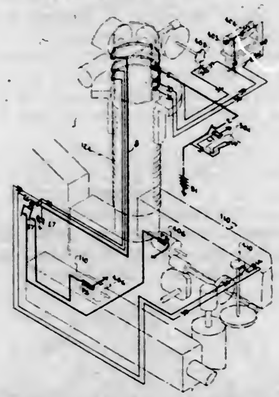
2,406,101
AMPOULE SEALING MACHINE
Alf Pipping, Bloomfield, N. J.
Application April 7, 1943, Serial No. 482,196
5 Claims. (Cl. 49—7)

3. In a machine for sealing filled ampoules made of a fusible material, means for supporting and retaining the ampoule in fixed position, a nozzle opening toward said ampoule for directing a flame in surrounding relation to the neck thereof, a conduit having an opening directed toward the path of the flame adapted to direct a jet of air for intercepting and discontinuing the application of the flame to the neck of the ampoule, means for cutting off the supply of the air passing through said conduit, a swingably



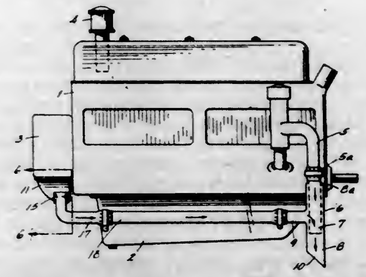
mounted arm disposed with one end thereof in engagement with the ampoule retaining means, a reciprocatory bar engaging with the opposite end of said arm and with said air jet cutting off means and rotary driven means engaging with said reciprocatory bar for actuating the same to cut off said jet of air.

2,406,102
TRIGGER SYSTEM FOR GUN TURRETS
George W. Pontius, III, Arthur P. Wilson, and Frank V. Kuzmitz, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 20, 1942, Serial No. 439,622
2 Claims. (Cl. 89—27)



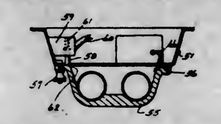
1. In combination, a turret movable in azimuth, guns mounted on said turret for movement therewith in azimuth and relative thereto in elevation, an electrical system comprising a source of current, a firing circuit including a firing device for each gun, a first circuit normally open and including a manually operated switch for closing the aforesaid first circuit, means controlling the firing circuit and including a relay coil in the first circuit, said means being responsive to closing the first circuit to thereby close the firing circuit, a cam constructed and arranged to follow the guns in azimuth, said cam having notches therein corresponding to positions of the guns in azimuth where it is desirable to disconnect said devices, a first means in said first circuit arranged to cooperate with the notched portions of the cam for opening the first circuit, a second cam constructed and arranged to follow the movement of the guns in elevation, said second cam having notches therein corresponding to positions of the guns in elevation where it is desirable to disconnect said devices, a second circuit normally open and including said relay coil and said manually operated switch for closing said circuit, and a second means in the second circuit connected in parallel with said first means, said second means arranged to cooperate with the notched portions of said second cam for opening the second circuit, whereby the firing devices are disconnected from the firing circuit only if said first and second means are cooperating with the notched portions of said first-named cam and said second cam respectively.

2,406,103
CRANKCASE SCAVENGER
Clark C. Randall, Oak Park, Ill.
Application September 19, 1945, Serial No. 617,201
3 Claims. (Cl. 123—171)



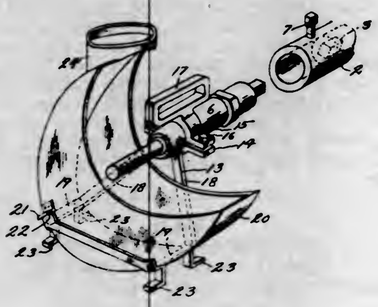
1. A crank case scavenger for an internal combustion engine provided with a breather system for the crank case and having a flywheel with teeth on its periphery, comprising an air scoop attachment adapted to be positioned adjacent the teeth of the flywheel for receiving the air moved by said teeth, a Venturi attachment adapted to be connected with the outlet portion of the breather system and a conduit connecting said air scoop attachment with said Venturi attachment whereby the air moved by the teeth of the flywheel will be directed past the outlet of the breather system to withdraw fumes from the crank case.

2,406,104
ELECTRICAL SYSTEM AND APPARATUS
Percival K. Ranney, Lakewood, Ohio
Application September 20, 1944, Serial No. 554,956
9 Claims. (Cl. 315—84)



1. In a gaseous tube lighting system, the combination of a gaseous tube having primary and secondary circuits associated therewith, a support for the tubes, a switch in series with the primary circuit, a member detachably positioned on the support for locking the tubes in position thereon, said member being arranged to close said switch automatically whenever the member is applied to the support in tube holding position, and to open said switch automatically whenever the member is detached sufficiently to effect removal of said tube.

2,406,105
MEAT GRINDER ATTACHMENT
Edwin W. Rogers and Raymond Rogers, Alexandria Bay, N. Y.
Application June 12, 1945, Serial No. 598,980
2 Claims. (Cl. 51—241)



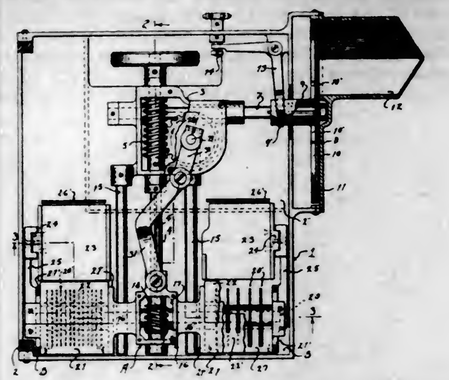
1. A grinding attachment adapted to be attached to a motor, said attachment comprising a rotatable shaft, said shaft being rotatably mounted in a stationary sleeve adapted to be attached to a driving motor, the outer end of said shaft being adapted to receive a grinding wheel, a combined support for said sleeve and shaft and a shield, said support comprising a separable bracket member carried by the sleeve, said bracket member having downwardly diverging arms, the lower ends of said arms terminating in a forwardly off-set cradle, an arcuate shield supported in said cradle and support engaging legs carried by said cradle and adapted to support the shaft in a horizontal position.

2,406,106
TERPENE DERIVATIVES
Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 8, 1943, Serial No. 513,483
10 Claims. (Cl. 260—617)

10. As a new product a substituted hydrobenzyl alcohol selected from the group consisting of dimethyl(butyl)hexahydrobenzyl alcohol, isohexenyl tetrahydrobenzyl alcohol and isohexyl hexahydrobenzyl alcohol.

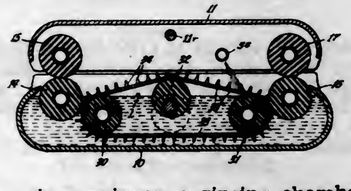
2,406,107
MACHINE FOR CUTTING FOOD PRODUCTS
Peter F. Quinn, Racine, Wis.
Application April 4, 1945, Serial No. 586,571
2 Claims. (Cl. 146—78)

1. A food product slicing and splitting machine, including a hopper, the slicing and splitting means comprising a spline driven shaft, guide-rods upon opposite sides of the shaft, a carriage mounted upon the guide-rods, having a pocket therein, a bottom pad for the hopper carried by the carriage and adapted to travel back and forth under said hopper, a blade extending cross-wise of the pad, spaced above and rearwardly of the edge of said pad, a cross-shaft journaled in the carriage, extending through the pocket portion thereof, a worm wheel carried by the cross-shaft within the pocket, a feathered worm slidably mounted upon the spline drive shaft in mesh with the cross-shaft worm wheel, a gang of splitting wheels carried by said cross-shaft rearwardly of, and in juxtaposition to the knife blade, a countershaft in gear connection with the drive



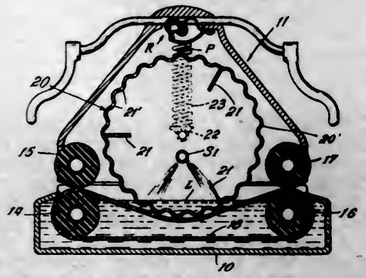
shaft, and a crank arm carried by the countershaft in pitman connection with the carriage.

2,406,108
RINSE WRINGER
Albert Schellenberg, Joliet, Ill.
Application May 15, 1941, Serial No. 393,521
6 Claims. (Cl. 68—22)



2. In a rinse wringer, a rinsing chamber, an endless conveyor belt mounted in said rinsing chamber for moving garments therethrough, said belt being of non-rigid material and having the surface thereof perforated, and flexible fingers upstanding from the surface of said belt and integral therewith.

2,406,109
RINSE WRINGER
Albert Schellenberg, Joliet, Ill.
Application May 15, 1941, Serial No. 393,522
6 Claims. (Cl. 68—22)

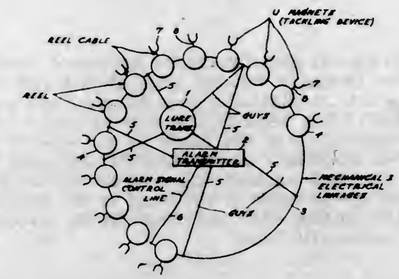


5. In a rinse wringer, a rinsing chamber, an upper frame mounted on the rinsing chamber, a pair comprising upper and lower intake rolls at one side of the rinsing chamber, a pair comprising upper and lower discharge rolls at the opposite side of the rinsing chamber, a conveyor belt extending between the lower rolls of said pairs of rolls, and roller means mounted on the upper frame between the pairs of rolls coacting with said belt to agitate and rinse garments, said roller means comprising a hollow impeller roll having peripheral corrugations, said corrugated periphery being perforated at intervals therearound.

2,406,110
MANUFACTURE OF HYDROCARBONS
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 31, 1943, Serial No. 481,281
11 Claims. (Cl. 260—683.6)

10. A process for manufacturing branched chain paraffin hydrocarbons which comprises reacting a mono-olefinic hydrocarbon with a methyl halide in the presence of lead oxide to produce a higher molecular weight mono-olefin and hydrogenating said mono-olefin to the corresponding paraffin.

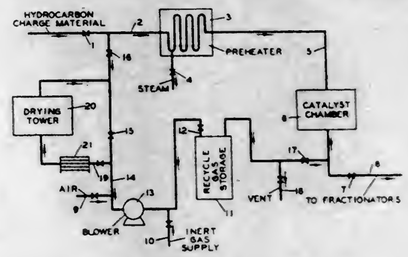
2,406,111
RADIO SUBMARINE LURE AND TRAP
Berthold Sheffield, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 10, 1943, Serial No. 513,665
9 Claims. (Cl. 35—25)



1. A submarine lure and alarm system comprising a lure device having means to radiate radio frequency oscillations to attract a submarine to its location, an alarm device located near and coupled to said lure, said alarm device having magnetic means to attach itself to the attracted submarine and means to then radiate radio frequency oscillations which are operated at a different frequency value from the frequency radiated by said lure.

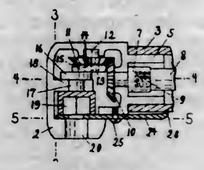
2,406,112
PROCESS FOR CATALYTIC HYDROCARBON CONVERSION
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 10, 1942, Serial No. 430,282
6 Claims. (Cl. 196—52)

1. A process for the catalytic conversion of a hydrocarbon fluid which comprises contacting said fluid in admixture with water vapor as a diluent and heat carrier, at conversion conditions of temperature, pressure, and flow rate, with a water-resistant contact catalyst to effect conversion of a substantial proportion of said hydrocarbon fluid; interrupting the hydrocarbon flow at the end of the conversion period and after the deposition of a deactivating proportion of carbonaceous material upon said catalyst; purging the catalyst space of hydrocarbons; reactivating the catalyst by passing therethrough an oxygen-containing reactivation gas under combustion conditions at a temperature, pressure, and flow rate chosen to prevent production of combustion temperatures harmful to the catalyst for the removal of said carbonaceous material by combustion with the concomitant formation of water vapor as a product of said combustion; substantially



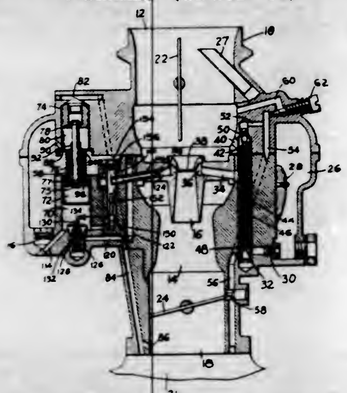
completely dehydrating the reactivated catalyst, and removing water formed during the reactivation therefrom, by passing through the catalyst subsequent to said reactivation a substantially dehydrated gas at elevated temperatures, and thereby improving the activity of the catalyst for a subsequent conversion of hydrocarbon fluid in the presence of water vapor; and utilizing said reactivated and dehydrated catalyst in said subsequent conversion.

2,406,113
METHOD OF GRINDING TEETH
Samuel R. Silver, Brooklyn, N. Y.
Application January 16, 1945, Serial No. 572,988
3 Claims. (Cl. 32—26)



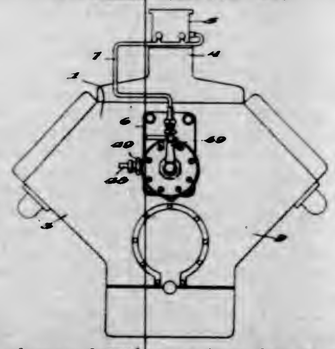
1. An instrument for dental grinding operations comprising a casing having an entrance opening at its lower end, a tubular neck extending rearwardly from said casing about an opening in the casing, a web in said casing, a tool-receiving socket in said casing aligned with said entrance and having a neck journaled through the web and a disk at the inner end of the neck, a pin projecting from said disk eccentric to the neck, a bevelled gear in said casing rotatably mounted for turning about an axis offset from the axis of the socket and its neck rearwardly of the casing and turning in a plane parallel to the disk, a pin projecting from the gear in eccentric relation thereto, a bar between the gear and the disk extending radially thereof and formed with sockets rotatably receiving the pins and imparting oscillating movement to the socket during rotation of the gear, and a gear in the casing meshing with the first gear and having a neck rotatably mounted through the opening at the rear of the casing and carrying a socket at its outer end located in the neck of the casing for engagement with a terminal of a flexible drive shaft.

2,406,114
CARBURETOR
Robert W. Sloane and Elmer M. Bimberg, Detroit, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 5, 1942, Serial No. 445,864
7 Claims. (Cl. 261—34)



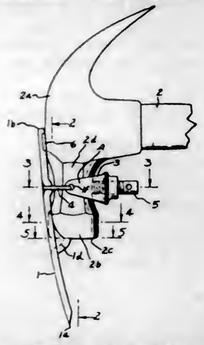
7. In a carburetor having an induction passage controlled by a throttle valve: an acceleration device including a fuel cylinder; a piston operable therein; a vacuum cylinder connected with the induction passage posterior to the throttle; a vacuum piston operative therein; a rod connecting said pistons; a fixed member; a spring reacting between said fixed member and the fuel piston; a sleeve slidable relative to said rod and adapted to engage the fixed member; a second spring adapted to react between the sleeve and fuel piston; said sleeve being so arranged that the vacuum piston will engage one end of same as it reaches a predetermined position adjacent the end of its discharge stroke thereby rendering said second spring inoperative for further discharge movement; an auxiliary fuel system; and a valve controlling same, said valve being opened by the fuel piston upon discharge movement beyond said predetermined position.

2,406,115
CHARGE FORMING SYSTEM
Fritz Stephan, Minneapolis, Minn., assignor to Herbert G. Benz, St. Paul, Minn.
Application December 20, 1941, Serial No. 423,772
9 Claims. (Cl. 261—37)



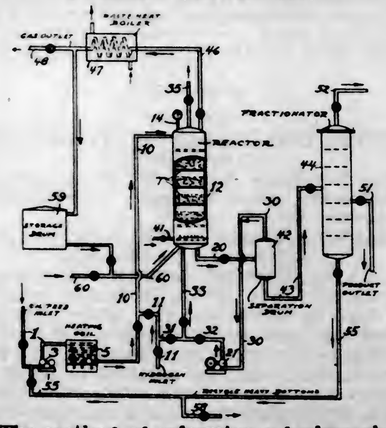
1. A charge forming system for an internal combustion engine comprising means defining a charge forming chamber and an air intake delivering to the chamber, a manual control, a fuel nozzle discharging into said chamber, a fuel pump means having a variable delivery controlled by said manual control to deliver fuel to said fuel nozzle at a varying rate independently of pump operating speed, an automatic throttle valve controlling delivery of air to the charge forming chamber at a variable rate, spring means biasing said air throttle valve to closed position, and means independent of the manual control and responsive to the pressure of fuel delivery to the fuel nozzle to control the position of the air throttle valve.

2,406,116
ADZ ATTACHMENT FOR HAMMERS
Leland M. Van Slyke, North Hollywood, Calif.
Application May 24, 1943, Serial No. 488,174
2 Claims. (Cl. 7—8.1)



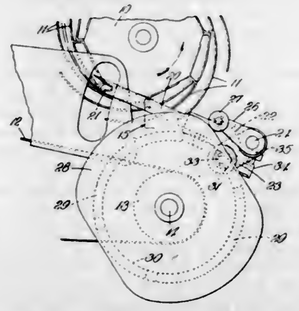
1. In an adz attachment for hammers, a blade member having a cutting edge at one end and a ledge intermediate the ends adapted to receive the face of the head of the hammer, said ledge being pressed from the blade to one side of the plane of the blade, and means for clamping the blade member against the various portions of the side of the neck of the head of the hammer with the cutting edge positioned in the direction of but beyond the head.

2,406,117
REFORMING
Albert B. Welty, Jr., Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 2, 1943, Serial No. 504,661
9 Claims. (Cl. 260—668)



1. The method of reforming a hydrocarbon in the presence of a catalyst which consists essentially of a reducible metal oxide of group VI of the periodic system carried on an alumina-containing base and added free hydrogen in which operation the reaction takes place under superatmospheric pressure and which operation requires periodic regeneration of the catalyst, the improvement which comprises subjecting the catayist after regeneration to a purging operation with free hydrogen or free hydrogen-containing gas carried out at pressures substantially less than those employed during the said reforming operation.

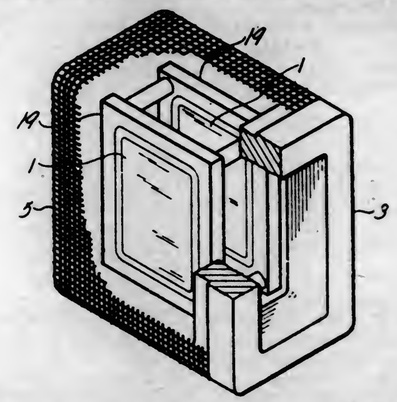
2,406,118
COUNTING MECHANISM
William Arnold Whitehead, Preston, England, assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application September 16, 1943, Serial No. 502,574
In Great Britain September 28, 1942
3 Claims. (Cl. 93—93)



1. In a delivery apparatus for papers movable downwardly in timed relation, the combination of a receiver, delivery means serving normally to deposit the papers in regularly piled arrangement on said receiver, a rock shaft, a pair of arms arranged at opposite sides of the path of travel of the papers and movable upwardly and downwardly by the shaft and pivoted to the shaft to swing laterally inwardly and outwardly, said arms having pockets to receive in the uppermost and inward lateral positions of the arms a leading edge portion of a selected paper and to carry said paper downwardly into changed position on said receiver as compared with the position at which the other papers are deposited on said receiver, a laterally sliding rod, links coupling the same to the arms to swing the arms laterally, and a cam device operative on the shaft and rod for moving said arms downwardly to remove said selected paper from the delivery means, then moving the arms laterally outward to release said selected paper from the pockets and deposit it on the receiver and to bring the arms laterally clear of the previously deposited copies, and then moving the arms upwardly and laterally inwardly to receive leading edge portions of the next selected paper being delivered by the delivery means.

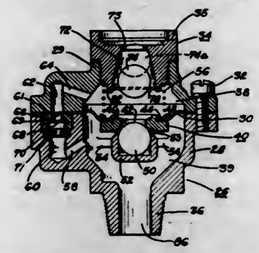
2,406,119
MICROPHONE
Alfred L. W. Williams, Cleveland Heights, and Alfred P. Dank, Cleveland, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application March 11, 1942, Serial No. 434,158
11 Claims. (Cl. 179—110)

1. In a close speaking microphone assembly: at least two pressure gradient microphones each having a sound sensitive element so placed with respect to each other that their planes of zero response are spaced apart, means for electrically connecting the said two microphones together with such polarity that their outputs tend to cancel when the assembly is subjected to a plane



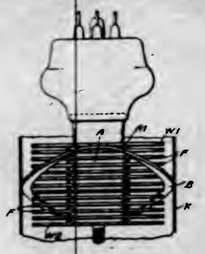
low frequency wave, means associated with said two microphones for directing between the said two microphones sound waves which originate near-by whereby the outputs from the said two microphones are added for said sound waves which originate near-by.

2,406,120
VENTING MEANS
Emil O. Wirth, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 17, 1943, Serial No. 495,123
3 Claims. (Cl. 277—50)



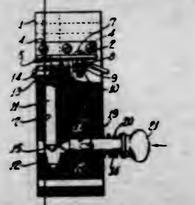
2. In a fuel supply system including a fuel tank: a pressure control device comprising a hollow casing; a diaphragm separating the interior of the casing into a pressure chamber and an atmospheric chamber; an inlet passage communicating with the pressure chamber; a valve seat carried by the diaphragm and having an orifice therethrough; a fixed valve member in the pressure chamber, of generally spherical shape adapted to close the orifice in the valve seat; yielding means urging the valve seat to the closed position with a predetermined force; a by-pass between the pressure chamber and atmospheric chamber; a vacuum valve controlling the by-pass; relatively light yielding means normally urging the vacuum valve to the closed position; a vent passage between the atmospheric chamber and atmosphere; and a valve adapted to close said passage upon inversion of the control device, said valve being disposed on the atmospheric side of said first and second mentioned valves, and when closed, shutting off communication between the inlet passage and atmosphere.

2,406,121
HEAT TRANSFERRING MEANS SUITABLE FOR THERMIONIC DISCHARGE APPARATUS
Arthur James Young, Danbury, England, assignor to Radio Corporation of America, a corporation of Delaware
Application January 22, 1943, Serial No. 473,172
8 Claims. (Cl. 250—27.5)



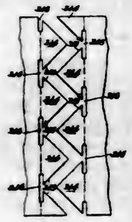
1. A heat transferring device for effecting transference of heat between a stream of fluid and a cylindrical metallic body, of the kind in which a plurality of circular cooling fins are disposed coaxially about and in heat exchanging contact with the body, the fins being mutually spaced apart, and in which the body and its fins are accommodated in a cylindrical duct of larger diameter and cross sectional area than the outside diameter and cross sectional area of the fins and through which duct the stream of fluid flows, characterized in that there is provided between the wall of the duct and secured to different positions on the outer edges of all of the circular cooling fins at least one continuous barrier whereby fluid entering the duct at one end thereof on one side of the barrier is constrained to pass between the fins in order to reach the other side of said barrier and so to reach the outlet at the other end of said duct.

2,406,122
LOW-VOLTAGE HIGH-CURRENT SWITCH
Lloyd L. Young, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1942, Serial No. 431,917
3 Claims. (Cl. 200—163)



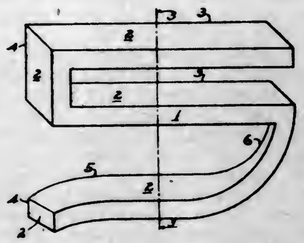
1. A low voltage high current electrical switch comprising a block of solid insulation material having an open transverse slot, a pair of fixed contacts each one of which is secured to a side of said block of insulation material adjacent said slot, said block having two circular apertures therein, a rod-like member having a conical pointed end arranged to move within one of said apertures, a movable contact member secured to the end of said rod-like member opposite its pointed end and arranged to move in said slot, and means including another rod-like member having a conical pointed end located within the other aperture of said block and arranged for the pointed ends to engage each other for moving said first mentioned rod-like member to complete an electrical circuit between said fixed contacts.

2,406,123
CONTAINER, MATERIALS AND PARTS THEREFOR
Philip Zalkind, New York, N. Y.
Application March 14, 1942, Serial No. 434,649, which is a division of application Serial No. 196,139, March 16, 1938. Divided and this application February 18, 1944, Serial No. 522,853
1 Claim. (Cl. 24—204)



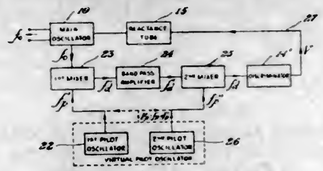
A formation for the edge of a sheet of fibrous material for joining such edge to a similarly formed edge; such formation comprising tongues extending from such edge and lugs extending from the side edges of said tongues, the tongues of the similarly formed edge being juxtaposed opposite the lugs of the first edge, the lugs of each edge being foldable to pass between the tongues of the opposite edge and being thereafter arrangeable to extend in surface to surface relation behind said tongues, the tongues in each edge being substantially equal in width to the spaces between the tongues; the lugs substantially filling said spaces, said tongues being substantially triangular in shape; said lugs comprising portions of said triangular tongues.

2,406,124
DISPLAY CHARACTER
Anthony Zicke, San Bruno, Calif.
Application May 31, 1943, Serial No. 489,143
1 Claim. (Cl. 40—140)



A display character comprising an integrally formed body provided with substantially parallel spaced front and back faces of substantially equal area equally offset horizontally and vertically with respect to each other and each having spaced edges outlining a character of the class of letters and numerals, and substantially parallel inclined surfaces connecting the spaced edges of the front face with the corresponding edges of the back face along the entire outline of the character, said inclined surfaces having light reflective properties varying with their inclination relative to the front and back faces at various points therealong, whereby the front face is bounded at all points along opposite edges thereof by inclined surfaces having different light reflective properties due to their relative inclination.

2,406,125
FREQUENCY STABILIZING SYSTEM
Marc Ziegler, Juan Francisco Visscher, and Luis Jose Cavallero, Buenos Aires, Argentina, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 17, 1943, Serial No. 514,710
6 Claims. (Cl. 250—36)



1. A method of stabilizing an adjustable main oscillation on some nominal frequency differing by a main nominal frequency difference from the nominal frequency of a virtual pilot oscillation, comprising the steps of subtractively mixing said main oscillation successively with a first and a second pilot oscillation to obtain said main frequency difference, the sum of the nominal frequencies of said pilot oscillations being equal to the nominal frequency of said virtual pilot oscillation, transforming said main difference frequency into electrical impulses of like sign and constant amplitude and area, integrating said electrical impulses to obtain an electrical control quantity proportional to the deviations of said main difference frequency from its nominal value, and selectively amplifying the secondary frequency difference obtained between said main and said first pilot oscillation over a predetermined frequency range to obtain a main stabilizing and a secondary equilibrium point corresponding to a substantially zero and a predetermined magnitude, respectively, of said electrical control quantity, and shifting the frequency of said main oscillation to a frequency corresponding to the falling-back zone of the system in response to the predetermined amplitude of the said electrical control quantity, so that the said main oscillation will be stabilized on its frequency corresponding to said main stabilizing point.

2,406,126
BLADE ARRANGEMENT FOR AXIAL COMPRESSORS
Otto Zweifel, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application June 7, 1943, Serial No. 489,978
In Switzerland March 21, 1942
3 Claims. (Cl. 230—122)

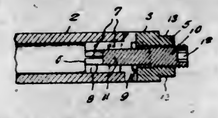


1. In an axial flow gas compressor, the combination with a plurality of compressor stages comprising alternately arranged rows of rotating and of stationary blades of geometrically similar profile, of a first compressor stage preceding said plurality of compressor stages; said first compressor stage comprising a row of stationary blades of the same profile as the rows of stationary blades of said plurality of compressor stages, and rotating blade means preceding said row of stationary blades for imparting a circumferential component to the gas as it enters said first compressor stage and for discharging the gas therefrom at substantially the same angle as that at which gas is discharged from the rotating blades of each of said plurality of compressor stages, said rotating blade means having an entrance angle more acute with respect to the axial direction of gas flow than the corresponding entrance angle of the rotating blades of said plurality of compressor stages and having a discharge angle identical with the corresponding discharge angle of the rotating blades of said plurality of compressor stages.

2,406,127
PROCESS OF FABRICATING TAPE
Johannes Alfthan, New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 25, 1944, Serial No. 537,366
7 Claims. (Cl. 18—47.5)

1. Process of fabricating polytetrafluoroethylene tape which comprises pressing finely divided polytetrafluoroethylene powder into a preform, baking said preform at a temperature above 327° C. and below 500° C. until said preform is sintered throughout, cooling the resulting sintered preform, shaving tape from said preform, heating said tape to a temperature above 327° C. and below 500° C., and quenching said tape.

2,406,128
EXTENSION PLUG
Walter Billman, Philadelphia, Pa.
Application November 22, 1944, Serial No. 564,626
1 Claim. (Cl. 279—2)

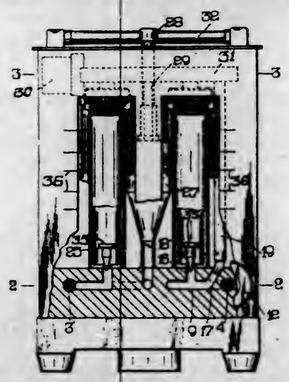


An extension plug for tubular machine tool holder shanks used in turret lathes and the like, said plug comprising a tubular member having an interiorly threaded head section and also having a foot section adapted to be inserted into the inner end of the tubular shank and terminating in a base part integral with the head section and overlying said end of the tubular shank and having at its inner end a recess communicating with the threaded bore of the head section, said foot section being provided with longitudinal slots forming expansible cylindrical segments, the inner surfaces of the segments being tapered with an inward flare, said plug further comprising screw means engaging the interior threads of said head section and also provided with an inwardly tapered stem on the inner end thereof, the taper of said stem being less than the interior taper of the foot segments, the free end of said screw means having a non-cylindrical socket for a turning wrench and the exterior surface of the free end of the head section being non-cylindrical for engagement by a holding wrench.

2,406,129
ANESTHETIZING METERING APPARATUS
John Henry Blease, Liverpool, England
Application October 28, 1943, Serial No. 508,019
In Great Britain December 11, 1942
2 Claims. (Cl. 73—198)

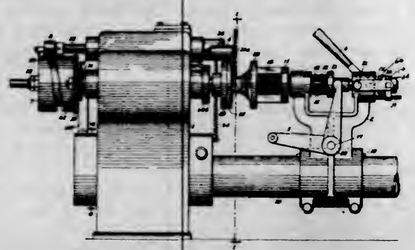
1. An anesthetizing apparatus having a body structure with a nitrous oxide inlet and an out-

let for delivery of gas to the patient, an inlet passage leading from said inlet, a metering valve effective for controlling flow from the inlet into the said inlet passage, a flow meter connected to an intermediate point of the length of said inlet passage, a bypass leading from a point of said passage farther from said inlet than the said flow meter connection, an outlet passage connected to said outlet, a channel connecting said flow meter to said outlet passage at an intermediate



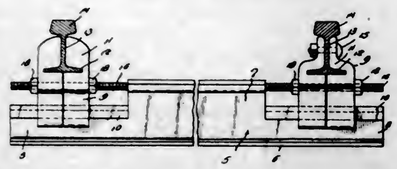
point of the length of said outlet passage, said bypass opening into said outlet passage at a point thereof farther from the said outlet than said channel connection, said flow meter and bypass being in parallel to one another and each being effective to provide a communication between said passages with the path of communication from inlet to outlet being shorter through the flow meter than the path through the bypass, said valve providing a common control of gas flow in said flow meter and said bypass.

2,406,130
COIL WINDING APPARATUS
Edward D. Boyce, Little Falls, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 12, 1942, Serial No. 458,110
3 Claims. (Cl. 140—92.2)



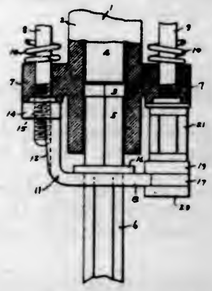
1. In coil winding apparatus, the combination, with a pair of winding forms, one having a spirally extending track of diminishing diameter and the other a circular track of a diameter corresponding to the least diameter of the first-mentioned track, of means for rotating said forms in unison, means operative during such rotation for feeding a single wire onto said spiral track and then causing the adjacent length of wire to be wound upon said circular track in superimposing fashion, means for stopping the winding operation when the number of turns wound on said circular track equals the number of turns wound on the spiral track, means for compressing the spirally wound turns into a substantially flat formation corresponding to the substantially flat formation of the portion of the coil that was wound on the circular track, and means slidable along the axis of rotation of said forms for thereafter axially displacing the first-named form with respect to the second-named form so as to produce a free space for transverse removal of the coil, as wound, from the winding apparatus, while all parts of the apparatus remain in assembled relationship, one to the other.

2,406,131
RAILROAD TIE
Beldon Branham, Springfield, Ohio
Application February 1, 1944, Serial No. 520,650
3 Claims. (Cl. 238—288)



1. In a railroad tie, an elongated body including a medial portion of I-beam construction in cross section and end portions of modified I-beam construction of reduced height and having downturned upper edges, pairs of rail clamps slidably mounted longitudinally on the end portions to receive and grip rails, means on said pairs of rail clamps interlocking in the downturned upper edges of the end portions for holding said clamps in their mounted position and fastening means securing the clamps on the rails and to the medial portion of the body.

2,406,132
TOOL RETAINER
Anthony J. Calaman, Oswego, N. Y.
Application June 14, 1945, Serial No. 599,479
1 Claim. (Cl. 279—19.1)

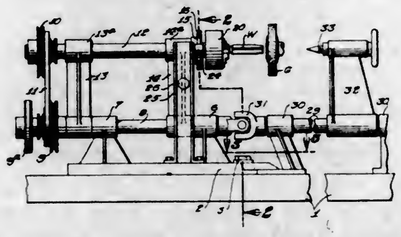


In combination, a tool retainer for a power operated hammer comprising a holding arm having one end thereof pivotally attached to the hammer, a connecting sleeve secure to the hammer, a pair of spaced jaws carried by said connecting sleeve for receiving the free end of said holding arm, a spring actuated latching member connecting with said sleeve and shiftable in the latter for securing and releasing said free end of said holding arm, said latching member being provided with a pair of circumferentially extending grooves disposed adjacent to respective ends thereof, a spring controlled locking rod mounted in one of said pair of jaws and normally operable for engaging in one of said pair of grooves for holding said latching member in the secured position and in the other of said grooves for holding the latching member in the released position, and means mounted in said sleeve for adjusting the spring actuating said latching member.

2,406,133
PROCESS FOR OBTAINING PROVITAMIN D
William S. Calcott, Woodstown, N. J., and George E. Holbrook and Stockton G. Turnbull, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 11, 1942, Serial No. 450,632
7 Claims. (Cl. 167—81)

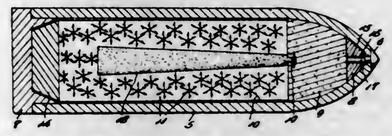
7. In a process of obtaining the unsaponifiable fraction from shell fish the step which comprises treating the whole broken open shell fish with caustic alkali to saponify the saponifiable constituents and liquefy the shell fish meat.

2,406,134
TOOL GRINDING MACHINE
Joseph A. Cameron, Los Angeles, Calif.
Application July 5, 1943, Serial No. 493,550
1 Claim. (Cl. 51—101)



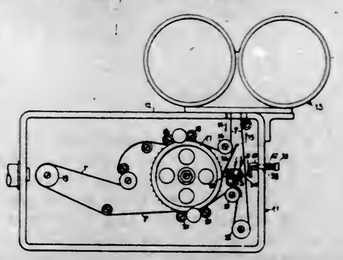
A grinding machine, comprising a headstock base structure pivotally mounted near one of its ends about a vertical axis, means for releasably securing said base structure in its angularly adjusted positions about its pivotal axis, a rockable shaft carried by said base structure and projected at one end over said pivoted base structure end, a headstock unit swingably secured to said rockable shaft above said headstock base structure whereby to be swung laterally of the axis of said rockable shaft upon a forced rocking movement of said shaft, a rotatable spindle journaled on said headstock unit with its axis parallel to the axis of said rockable shaft, a control cam carried by and rotated with said spindle, a roller abutment positioned peripherally opposite said control cam and fixed stationarily with respect to the headstock base structure, spring means interposed between said roller abutment and said headstock unit for maintaining the control cam forcibly but yieldably in engagement with said roller abutment whereby said headstock unit is caused to swing in accordance with the peripheral configuration of said control cam, means on said headstock spindle for supporting and rotating a workpiece about the axis of said spindle, a grinding element cooperatively positioned and arranged and adapted for peripheral grinding engagement with the workpiece as supported on the spindle of said headstock unit in whatever angular position the headstock base structure may be adjusted about its pivotal axis, a laterally swingable tailstock unit, said tailstock unit being mounted on a rockable shaft supported and arranged as a continuation of the first-mentioned rockable shaft and normally in axial alignment therewith, and a universal coupling between said first-mentioned and said last-mentioned rockable shafts, said coupling having its center in alignment with the pivotal axis of the headstock base structure.

2,406,135
EXPLOSIVE SHELL
Reinaldo C. Chavez, Santa Rosa, N. Mex.
Application April 12, 1943, Serial No. 482,746
2 Claims. (Cl. 102—92)



1. An explosive shell comprising a shell casing having an open rear end and a tapering nose provided with a percussion cap, a frangible shrapnel container in the casing, an explosive charge in front of the container, a closure for the rear end of the casing and adapted to be removed together with the container upon ignition of the charge, an explosive charge in the container and having a fuse communicating with said charge, a fuse leading from the percussion cap to said charge, and multi-pronged missiles in the container having an anesthetic coating thereon.

2,406,136
ANTIBUCKLING DEVICE FOR FILM FEEDING MECHANISMS
James Patrick Corcoran, West Los Angeles, Calif., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif., a corporation of New York
Application April 17, 1944, Serial No. 531,510
2 Claims. (Cl. 200—52)



1. In a power driven machine for handling motion picture film or the like, a feed sprocket for passing film through said machine, a switch for controlling the power for said machine near said feed sprocket, and a stripper plate associated with said feed sprocket arranged to strip film from said feed sprocket when said film leaves its customary path with respect to said feed sprocket and force the stripped film to operate said switch.

2,406,137
INFUSION BAG
Lewis B. Eaton, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application October 18, 1944, Serial No. 559,161
2 Claims. (Cl. 99—77.1)

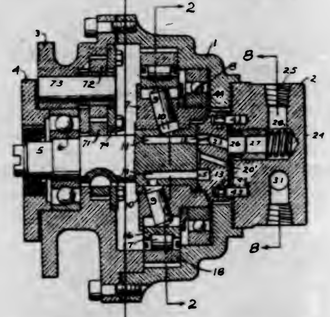
1. An infusion bag comprising a flat pillow type bag having a handle comprising a tag and a length of twine connecting the tag and the bag

of a length slightly greater than twice the length of the bag, said bag having a metal fastener connecting one end portion of the twine thereto, the portion of the twine intermediate the tag and the bag being wound about the bag and overlying the tag, the other end portion of the twine extending beyond the connection of the twine



to the tag and being frictionally held under the aforesaid metal fastener of the bag whereby to dispose the tag and the twine in proximity to the bag for packing purposes and to enable said extended end portion of twine to be drawn from under the bag fastener to extend the intermediate portion of the twine when the bag is ready for use.

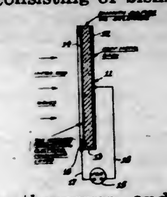
2,406,138
HYDRODYNAMIC MACHINE
Walter Ferris, Milwaukee, and Adolf R. Grad, Wauwatosa, Wis., assignors to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 14, 1942, Serial No. 426,702
22 Claims. (Cl. 103—161)



1. In a hydrodynamic machine, the combination of a rotatable cylinder barrel having a plurality of cylinders arranged therein with the outer ends of said cylinders arranged approximately in a circular row and alternate cylinders in said row inclined in opposite directions in respect to the axis of said cylinder barrel to thereby reduce the space required for said cylinders, means for connecting each cylinder to opposite sides of a circuit alternately as said cylinder barrel rotates, a cylindrical reaction member encircling said cylinder barrel and arranged eccentric thereto when the machine is performing useful work, and a piston fitted in each cylinder and having the outer end thereof in contact with said cylindrical member to be reciprocated thereby during rotation of said cylinder barrel.

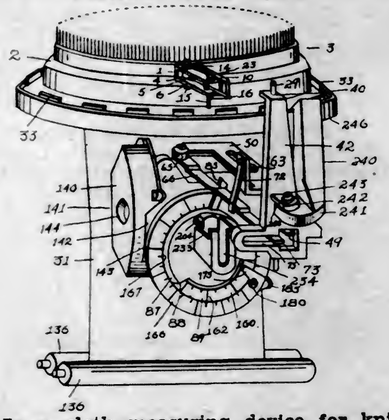
2,406,139
PHOTOCELL FOR MEASURING LONG WAVE RADIATIONS
Colin G. Fink, New York, N. Y., and Johnstone S. Mackay, Prospect Park, Pa.
Application February 27, 1941, Serial No. 380,868
7 Claims. (Cl. 136—89)

1. A photovoltaic cell having about 80% of its photoactivity in the infrared region and comprising a conducting base, a layer of material selected from the group consisting of bismuth sulfide and



bismuth selenide thereover, and a thin translucent electrically conducting film over said layer.

2,406,140
CLOTH MEASURING DEVICE
Joseph A. Firsching, Utica, N. Y.
Application April 4, 1944, Serial No. 529,535
7 Claims. (Cl. 66—167)



1. In a cloth measuring device for knitting machines, a cloth contact wheel, a gear turned by said wheel, a cup shaped disk, means for holding said disk to turn with said gear, a rod held latched in inoperative position for actuating the stop motion of a knitting machine, and a member carried by said disk, whereby to release said rod.

2,406,141
GAS FLOW RESISTANCE
George E. Fredericks, Meadowbrook, Pa., assignor to George E. Fredericks Company, Bethayres, Pa., a corporation of Pennsylvania
Application June 13, 1944, Serial No. 540,166
2 Claims. (Cl. 138—40)

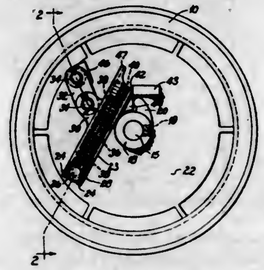


2. A gas flow resistance, comprising a glass tube, and a metal rod in the bore of the tube and providing a gas flow resistance space between the wall of the tube and the wall of the metal rod, the size of the space being determined by the difference of contraction between the two materials when cooled from a heated state.

2,406,142
OVERLOAD RELEASE COUPLING
Sever C. Gebert, Chicago, Ill., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application October 28, 1944, Serial No. 560,878
4 Claims. (Cl. 192—56)

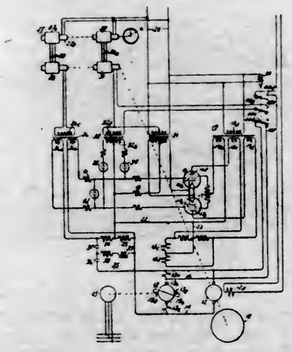
1. An overload-sensitive clutch of the character described, comprising in combination with

driving and driven members, a clutch element on said driven member, a toggle structure on said driving member and including a tubular element, a clutch pawl carried by and extending laterally of said tubular element, means coacting with one end of said tubular element to support the tubular element for both pivotal and bodily movements relative to the driving member, a link swingably carried by the driving member and pivotally connected to said tubular element intermediate the ends of the latter, a closure for the opposite end of said tubular element, and a tog-



gle loading spring arranged longitudinally in said tubular element between said means and said closure, said toggle structure affording displacement of said tubular element between a position of engagement of said pawl with said clutch element and a position of toggle collapse wherein the pawl is removed from said engagement, and said spring effectively loading said toggle in the position of the tubular element wherein the pawl is in engagement with said clutch element, so as yieldably to retain the tubular element in such position to a predetermined load limit.

2,406,143
FOLLOW-UP CONTROL SYSTEM
Sidney Godet, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 5, 1942, Serial No. 445,949
3 Claims. (Cl. 172—239)



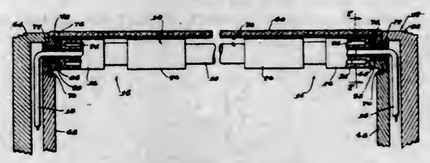
1. A follow-up control system comprising in combination, a pilot device, a driven object, an electric motor for driving said object, means responsive to disagreement of said pilot device and driven object for producing a signal voltage corresponding to said positional disagreement, amplifier means responsive to said signal voltage for supplying a voltage to said motor to cause said motor to drive said object toward correspondence with said pilot device, an antihunt means comprising a high pass filter having a cutoff frequency substantially lower than the frequency of the natural period of oscillation of said system and connected between the armature terminals of said motor and the input to said amplifier.

2,406,144
CONTACT BLADE ASSEMBLY
William P. Herman, Providence, R. I.
Application June 14, 1941, Serial No. 398,098
2 Claims. (Cl. 173—361)



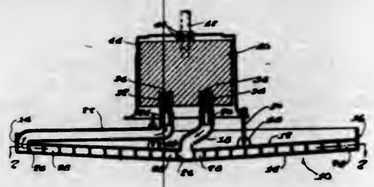
1. In combination, a contact blade for an electrical contact plug comprising a flat, one-piece, rigid stamping of generally elongated form and having two spaced transverse slots extending inwardly from opposite side edges adjacent the upper portion of said blade, the lower slot extending inwardly at an upward angle, and an insulated cord lead wire having its bared end fixed to one side of said blade adjacent the upper slot and extending upwardly above the upper slot, said insulated wire passing alternately through the upper and then the lower slots and being bent to extend upwardly in alignment with said blade.

2,406,145
FLUORESCENT LIGHTING UNIT
John E. Holmes, Auburndale, Mass.
Application March 8, 1944, Serial No. 525,531
6 Claims. (Cl. 240—6)



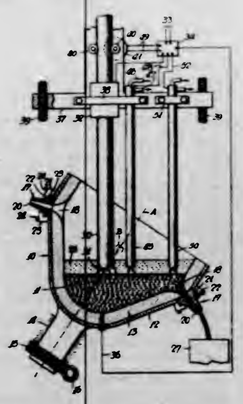
1. In a fluorescent lighting unit for use in a show case or the like having top and front glass panels and hollow end panels, a pair of safety housings comprising extensible shielding members for operatively supporting the ends of a fluorescent lamp, means for supporting said safety housings comprising a pair of receptors attached to said hollow end panels, said hollow end panels being arranged to receive and conceal the wiring from the unit, a reflector rail comprising the front rail of the show case frame attached to said receptors and disposed in close proximity to said safety housings, said front rail having provision for supporting the adjacent edges of said top and front glass panels, live conducting elements of relatively high voltage supported within said housings, the arrangement being such that said safety housings may be longitudinally contracted to permit insertion of said lamp and thereafter extended into operative position, with all conductive material within said housings shielded at all times.

2,406,146
FLUORESCENT LIGHTING UNIT
John E. Holmes, Auburndale, Mass.
Application March 8, 1944, Serial No. 525,532
1 Claim. (Cl. 176—122)



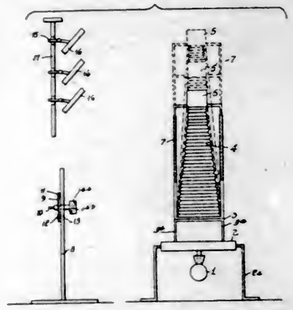
A fluorescent lighting unit, comprising: a closed generally circular disc-shaped casing having flat upper and lower walls spaced apart a distance so that the diameter of said casing is substantially greater than its height, at least the lower of said walls being of a light conducting material; a continuous partition member extending between said upper and lower walls and arranged so as to form a spiral chamber within said casing containing an ionizable gas, one of the ends of said spiral chamber being positioned substantially at the center of said casing and the other adjacent the periphery thereof; and a pair of hollow extensions communicating with each end of said spiral chamber and extending in a direction substantially parallel to the upper wall of said casing and adjacent thereto to points relatively closely spaced and symmetrically located with respect to the center of said disc-shaped casing, said extensions terminating in upwardly extending parallel electrode containing portions substantially perpendicular to the upper wall of said casing.

2,406,147
APPARATUS FOR PRODUCING METAL
Robert K. Hopkins, New York, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application May 9, 1944, Serial No. 534,828
4 Claims. (Cl. 13—10)



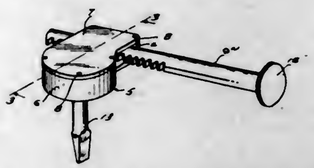
1. In combination, a metallurgical vessel having two duplicate discharge openings, a heating electrode in said vessel, and means for rotating said vessel to bring either one of said openings into pouring position below said electrode while moving the other opening out of pouring position.

2,406,148
ARRANGEMENT FOR THE DISTANT VIEWING OF RADIOSCOPIC IMAGES
José Jany, Sao Paulo, Brazil
Application July 17, 1943, Serial No. 495,203
In Brazil June 14, 1943
2 Claims. (Cl. 250—77)



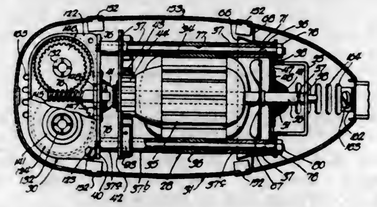
1. An arrangement for the distant viewing of radioscopic images comprising in combination with an X-ray apparatus including an X-ray tube, a radiological table, a fluorescent screen and a bellows having one end thereof attached to said fluorescent screen and being extensible along the optical axis of said X-ray apparatus, the latter being capable of assuming a position in which its optical axis is disposed in a horizontal plane, an upright lead sheet covered partition wall disposed in a plane parallel to the optical axis of said X-ray apparatus and provided with a horizontal slot the longitudinal edges of which are equidistantly spaced from said horizontal plane containing the optical axis of said X-ray apparatus, a lead sheet protected carriage slidable lengthwise of said slot, a telescope supported by said carriage with its optical axis disposed in said horizontal plane at right angles to said partition wall, and an optical device mounted at the other end of said bellows to divert the light rays passing from said luminous screen along said optical axis of said X-ray apparatus through said bellows at right angles towards said partition wall.

2,406,149
SCREW DRIVER
Jesse B. Jenni, Festus, Mo.
Application February 17, 1944, Serial No. 522,805
2 Claims. (Cl. 145—66)



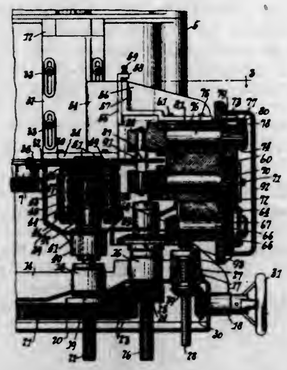
1. A tool of the character described comprising a housing, a gear in the housing, said housing having a guide portion having an opening therein adjacent the periphery of said gear, through which the teeth of the gear extend, a rack bar disposed through the guide portion and engaged by said gear, a tool projecting from the gear, said rack bar being rotatable to engage or disengage its teeth with the teeth of the gear, said guide portion and said rack bar being of non-circular cross section to limit rotation of the rack bar when disengaging from the gear.

2,406,150
POWER UNIT
Verne C. Kennedy, Evanston, Ill., assignor to A. F. Dormeyer Mfg. Company, a corporation of Illinois
Application May 25, 1942, Serial No. 444,314
10 Claims. (Cl. 172—36)



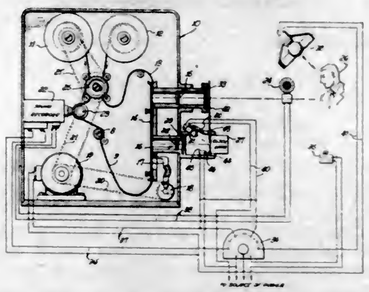
1. In a food mixer a power unit comprising a transmission housing, an armature journalled at one end on the transmission housing, a member spaced from said transmission for journalling the other end of the armature, elongated elements interconnecting said transmission and member in supported relation, a stator core carried by the elongated elements, a brush holder carried by the elongated elements, a shell supporting the transmission and the spaced member at spaced points, a deflector carried by said spaced member, an air baffle in said shell closing the space between the deflector and shell, and air circulating means driven by the armature and disposed within the deflector.

2,406,151
CAN END MARKING MEANS
Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Original application December 7, 1940, Serial No. 369,110. Divided and this application November 24, 1943, Serial No. 511,611
8 Claims. (Cl. 101—6)



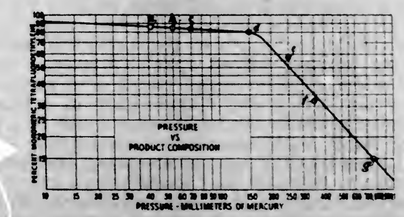
1. In can end closure marking means, a pair of rotary shafts disposed in parallel spaced relation and connected by intermeshing gears of like diameter mounted thereon, means providing a bearing for each shaft, said last named means including a bearing bore and an eccentric sleeve surrounding one said shaft as a bearing sleeve and having rotary bearing contact in said bearing bore and being adjustable about said one shaft for altering the spaced relation of the shafts, a worm gear portion on said sleeve intermediately of the ends thereof, a captive screw engaging said worm gear portion for imparting movements of adjustment to said sleeve, and marking elements carried by the shafts and opposed for engaging in rolling contact with end closures passed between said elements.

2,406,152
RECORDING CAMERA
William Levine, Los Angeles, Calif.
Application July 13, 1945, Serial No. 604,895
5 Claims. (Cl. 88—16.2)



1. A system for recording data on a film strip comprising a case including a reel for unexposed film, a reel for exposed film, a film exposure gate having a pair of apertures and a motor drive, a sound recording device having means thereon for receiving the film and a microphone independent of the case connected to said recording device, a step by step film advancing mechanism attached to said motor drive, an object lens system in alignment with one of said apertures having a shutter synchronized with said film advancing mechanism, a data lens system communicating with the other of said apertures having a shutter synchronized with said film advancing mechanism, a data lens system communicating with the other of said apertures having a camera shutter, a time record positioned opposite said data lens system and a lamp in position for illuminating said record, an electric circuit incorporating said data lamp, an object lamp and an alternate switch whereby when one lamp is in circuit the other lamp is out of circuit, and a time operated multiple switch having a manual starting device, said time switch having in circuit with respective parts thereof said sound recording device, said motor drive, and said alternate light switch.

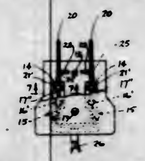
2,406,153
DEPOLYMERIZATION OF POLYMERIC TETRAFLUOROETHYLENE
Ernest E. Lewis, Lyndhurst, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 23, 1944, Serial No. 541,821
5 Claims. (Cl. 260—653)



1. Method of producing monomeric tetrafluoroethylene which comprises heating polymeric

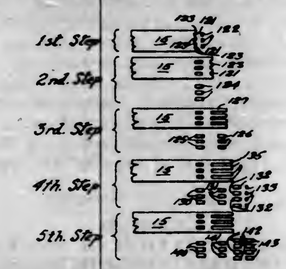
tetrafluoroethylene at a temperature above its decomposition point under a reduced pressure not exceeding about 150 millimeters of mercury and collecting the resulting monomeric tetrafluoroethylene gas formed.

2,406,154
FUSED ELECTRICAL PLUG
Milton Medlin, Brooklyn, N. Y.
Application October 12, 1944, Serial No. 558,344
3 Claims. (Cl. 200—115.5)



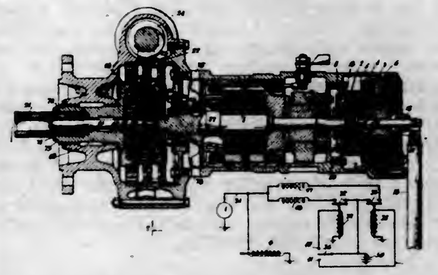
1. In a fused electrical plug, a sectional casing of insulation material having its sections releasably connected together and having recesses formed between their contacting faces, clips for holding one of the ends of fuses mounted upon and within the recesses of one of said sections, and prongs for engaging an electric connector mounted upon and within the recesses of said section, each of said prongs comprising a metal strip bent upon itself and having its ends within said section and separated and formed into clip portions for holding the other end of one of said fuses, and one of the arms of each prong having an offset portion engaging complementary portions of said recesses for holding the prongs from coming out.

2,406,155
MEANS AND METHOD FOR MAKING STRIP BLANKS FOR CANS FROM LONG AND WIDE METAL STOCK
Robert W. Messenger, Salisbury, Md.
Application November 8, 1944, Serial No. 562,546
15 Claims. (Cl. 164—17)



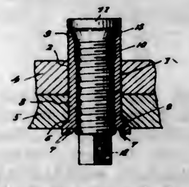
4. Those steps in the method of producing strip blanks of like length from coil strip stock with the longitudinal axes of the blanks extending longitudinally of the stock, which consists in fabricating the stock to provide a plurality of parallel tongues extending from the stock, each of a width equal to a potential blank and of a length equal to the combined length of two potential blanks, and said tongues spaced apart a distance equal to the width of a potential blank, and elongate, side by side, holes in the stock each of a length and width equal to the length and width of a potential blank, said holes being located with their major axes parallel and intersecting the spaces between the roots of said tongues and located a distance inwardly of the stock equal to the length of a potential blank whereby the holes extend longitudinally in a first series of spaced zones, longitudinally of the stock, for potential blanks, and said tongues extend in a second series of alternate spaced zones, longitudinally of the stock, for potential blanks; and then simultaneously cutting two blanks from each of said tongues, punching blanks from said stock in said first zones, between the leading ends of said holes and the space between the tongues and punching blanks from said stock in said first zones, a distance from the trailing ends of said first mentioned holes, equal to the length of a potential blank.

2,406,156
CONTROL DEVICE FOR HOISTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 17, 1942, Serial No. 458,744
7 Claims. (Cl. 188—180)



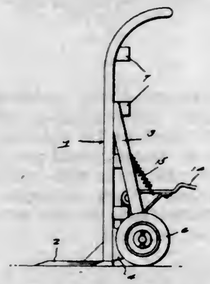
1. In mechanism for raising and lowering a load: a motor having a rotatable armature operable for raising or lowering the load; brake means operatively associated with said armature to normally preclude rotation of the latter, when the motor is deenergized; electrically operated means disposed in circuit with said motor and effective, upon energization of said motor, to render said brake means ineffective thus affording rotation of said armature; and speed actuated means responsive to the rotational speeds of said motor armature and operatively associated with said brake means for progressively applying a pressure to the latter to thereby limit the rotational speed of said motor armature.

2,406,157
RIVET
Richard E. Nelson, Spokane, Wash., assignor to Universal Development Company, Spokane, Wash.
Application July 12, 1943, Serial No. 494,393
3 Claims. (Cl. 85—40)



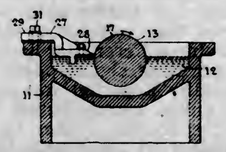
1. A rivet comprising a tubular sleeve having its front end portion formed with a radially projecting frusto-conical head, said head having an outstanding marginal flange serrated to form teeth whereby the sleeve may be held against turning in an opening formed through plates to be secured, the bore of said sleeve being threaded from its front end for a major portion of its length and the rear portion of the sleeve having its wall internally reduced in thickness and internally beveled at its extremity to provide the bore with a flared mouth at its rear end, and a screw threaded through the bore of said sleeve and having a head at its rear end corresponding in diameter to the external diameter of the sleeve, the head of said screw having a forwardly tapered frusto-conical neck for fitting snugly in the mouth of said sleeve, and said screw having a wrench engaging head at its front end whereby the screw may be advanced forwardly through said sleeve with its head expanding the rear end portion of the sleeve to form a head for cooperating with the head at the front end of the sleeve to clamp plates firmly against each other between the heads.

2,406,158
HAND TRUCK
Alba Newport, Kokomo, Ind.
Application May 25, 1945, Serial No. 595,794
3 Claims. (Cl. 214—82)



1. A hand truck comprising a load-supporting frame, wheel means adjacent the lower end of the frame adapted to support said frame during transportation of the load, a lever member pivotally mounted on a transverse axis adjacent the lower end of the frame but spaced above said wheel means, said lever member comprising a first normally depending arm and a second normally rearwardly extending arm said first arm being adapted to exert a forward thrust on the load responsive to depression of the end of said second rearwardly extending arm, and spring means for biasing said first arm to a position substantially in the plane of said load-supporting frame.

2,406,159
STATIONARY SCRAPER ON SOLDER ROLL
James H. O'Neil, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 10, 1943, Serial No. 513,762
1 Claim. (Cl. 113—62)



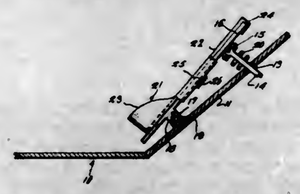
A soldering mechanism for applying solder to the side seam of can bodies comprising a solder bath containing molten solder, a solder applying roll partially immersed in the solder bath and rotating therein, means for feeding can bodies along said roll with the side seam contacting with said roll so that solder carried by the roll will be applied to the side seam, said roll having a series of sections for applying solder to the side seam and a series of similar sections at the delivery end of the bath for removing solder adhering to the face of the can body in the region of the seam, a scraper blade lengthwise of said last-named sections and contacting therewith above the solder bath for stripping the solder adhering to the surface of the sections therefrom as they emerge from the bath and before they contact with the can body at the side seam, whereby surplus solder adhering to the surface of the side seam will be taken therefrom by said last-named solder roll sections and returned to the bath.

2,406,160
RAZOR BLADE HOLDER
Otto Carl Otteson, Racine, Wis.
Application October 26, 1944, Serial No. 560,421
2 Claims. (Cl. 30—335)



1. A holder for using otherwise discarded safety razor blades comprising a body including a handle and a shank projecting from one end of said handle, said shank having an adapter notch formed in one edge and face thereof, this to accommodate a razor blade, and a notch and blade covering and retaining plate removably secured to one side of the shank and having a major portion thereof covering said notch and a part of the blade therein, said major portion of the plate being provided with set-screws to press against the blade and to assist in lodging it firmly in the notch.

2,406,161
MOTOR VEHICLE ATTACHMENT
Joseph Paymer, Brooklyn, N. Y.
Application February 19, 1945, Serial No. 578,733
1 Claim. (Cl. 74—513)

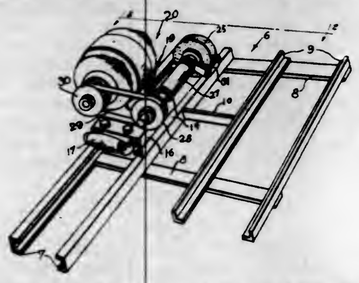


In a device of the character described, a base plate, a heel sustaining member at one end of the base plate, a pair of tines at the opposite end of the base plate, an extension on each side of the base plate intermediate its ends, a tongue on one of said extensions and a slot in the opposite extension for the reception of the tongue, said extensions being adapted to be bent around the accelerator pedal of a motor vehicle and the tongue entered in the slot.

2,406,162
LAWN MOWER SHARPENER
Rasmus P. Pedersen, Cody, Wyo.
Application June 6, 1945, Serial No. 597,784
3 Claims. (Cl. 51—34)

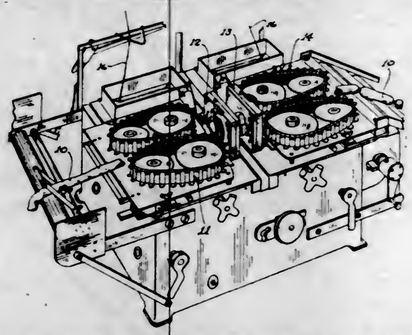
1. In a lawn mower sharpener of the class described, a base having track means, a pair of spaced parallel angle irons, said angle irons constituting seating chairs for the usual wheels on

a standard type lawn mower, a carriage slidable in said track means, said carriage being provided with a hand grip to assist in shifting it to and fro in relation to the lawn mower reel, an electric motor on said carriage, a bearing carried by said



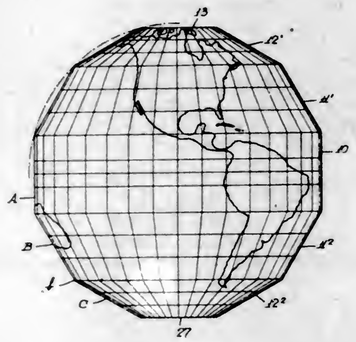
carriage, a shaft mounted for rotation in said bearing, a pulley on said shaft, said motor being provided with a pulley, a belt trained over said pulleys, and an abrasive wheel on said shaft, and an L-shaped depth gauge and blade guide mounted on said shaft adjacent the abrasive wheel.

2,406,163
SAUSAGE LINKING MACHINE
James J. Prohaska, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application September 18, 1943, Serial No. 502,948
11 Claims. (Cl. 17—34)



1. A string cutting means for a machine for linking a stuffed casing with string delivered from a supply means and having means for carrying a string around a casing and drawing it tight, said means for carrying the string including clamping means for engaging the string to hold the free end while the string is being wrapped around the casing, said clamping means being operative to then release the free end and engage the string at a point between the supply and the casing, comprising an anvil having a shearing edge projecting across the path the string follows in being wrapped around the casing, a cam having a surface to direct the string around the end of the shearing edge during the wrapping step, said shearing edge being positioned to engage the string at a point intermediate the casing and the clamping means when wrapping of the string around the casing is complete, a movable means having thereon a second shearing edge for cooperating with said first named edge to effect severance of the string, and means to drive said movable means over the anvil to drive said second edge against the first named edge after wrapping of the string around the casing has been completed.

2,406,164
KNOCKDOWN GLOBULAR SHELL
Erwin Raisz, Cambridge, Mass., assignor to Global Press, Inc., New York, N. Y., a corporation of New York
Application September 1, 1944, Serial No. 552,251
7 Claims. (Cl. 35—46)



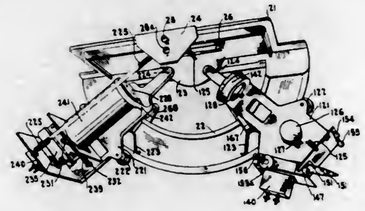
1. A hollow, knock-down globe-like structure of sheet material, comprising a median hollow band flanked at each of its sides by a sequence of frustro-conical bands, said bands being releasably interlocked in a self-sustaining structure, the junction lines between consecutive bands lying substantially in the enveloping geometrical spherical surface.

2,406,165
COMMUNICATION SYSTEM
Alfred C. Schroeder, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application July 1, 1944, Serial No. 543,176
11 Claims. (Cl. 179—15)



11. The method of effecting communication between a plurality of stations effectively connected to points on a single pulse-transmitting circuit, including the following steps: (1) Generating in said circuit regularly-recurring synchronizing pulses, (2) Adjusting each station of the system to a predetermined period in the intervals between said pulses, said period bearing a predetermined time relation to said pulses and said relation being different for each of said stations, (3) Generating signal pulses at one station, (4) Selecting a period for the occurrence of said signal pulses corresponding to the period assigned to a responding station, (5) Modulating said signal pulses in amplitude in accordance with the communication to be effected, (6) Applying said modulated pulses to said circuit, (7) Diverting synchronizing and signal pulses applied to said responding station into separate channels, (8) Detecting signal pulses diverted to one of said channels and occurring during the period assigned to the responding station.

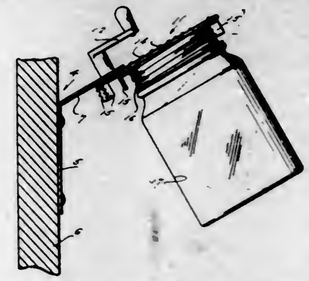
2,406,166
INSTRUMENT FOR MEASURING REFLECTANCE
William Edwin Scott, Drexel Hill, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 25, 1942, Serial No. 452,325
8 Claims. (Cl. 88—14)



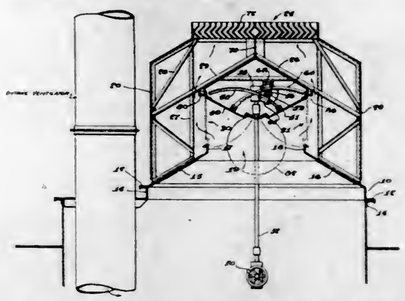
1. In an instrument for evaluating photoelectrically the light reflected from a surface, a support having an outer face for providing a plane in which to dispose the surface, said support having an aperture therethrough opening inwardly from said face, a light source, a collimator disposed to direct light from said source within the area of said aperture, means for mounting said collimator for movement arcuately in a plane perpendicular to the plane of said surface, a light receptor, means for mounting said receptor for movement arcuately in said plane and independently of said collimator and light source, the center of the light source and receptor arcuate paths being in the plane of said surface and within the area of said aperture, said light source being mounted to direct light through said collimator toward said aperture, an arcuate portion of said support disposed in a plane perpendicular to said outer face and extending inwardly for supporting the outer ends of said collimator and receptor, the center of curvature of said arcuate portion being in the plane of said surface, an intermediate support disposed between said arcuate portion and said surface having a bearing surface in a plane perpendicular to said face for supporting the inner ends of said collimator and receptor, said arcuate portion being formed with an arcuate track at its outer edge and with a radial flange projecting outwardly from said track, bearing members mounted on the collimator and receptor and disposed on each side of the collimator and on each side of the receptor, said bearing members being disposed to bear against said track and flange, an inner bearing member on each of said collimator and receptor disposed for bearing engagement with the surface of said intermediate support, and means for maintaining said bearing members in bearing engagement with said supports.

2,406,167
JAR CAP APPLYING AND REMOVING DEVICE
Kyrle Francis Seals, Lamar, Colo.
Application April 3, 1944, Serial No. 529,258
2 Claims. (Cl. 81—3.30)

1. In a screw cap applying and removing device of the class described, a wall fixture including a plate having selectively usable keeper slots, a hand crank mounted for operation on said plate and provided with a crank arm, a chain unit, one of the end links of said chain unit being connected with said crank arm, the opposite end link being provided with a headed stud for selective use in the slots, said chain links being rigid, overlapping one another, pivotally connected together, and provided with lateral toothed cap engaging lugs.



2,406,168
VENTILATING APPARATUS
Lucky J. Shumaker, Bellevue, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 5, 1943, Serial No. 485,719
5 Claims. (Cl. 98—42)



1. A ventilating unit comprising a base provided with an opening forming the ventilator throat, a ventilator cap supported a substantial distance above the ventilator throat providing lateral air exhaust openings between it and the ventilator base, said ventilator cap having side portions projecting outwardly beyond the opening of said ventilator throat, opposed dampers having one of their side edges pivotally mounted at the side edge portions of said cap and arranged to swing outwardly into a position to close said openings and inwardly until the opposite edges thereof are in substantially abutting position to form deflectors for the air emerging from said throat, said dampers extending upwardly and outwardly in opposite directions from their substantially abutting edges and operating to prevent entrapment of the outgoing air under the ventilator cap, and a suction band mounted upon the base and surrounding said cap and spaced a substantial distance therefrom to form an air passage communicating with said lateral air exhaust openings, said band extending above the cap and below said ventilator throat, and terminating at its upper end in an opening.

2,406,169
PUSHCART
Guarling F. Sirman, North Miami, Fla.
Application July 24, 1945, Serial No. 606,744
2 Claims. (Cl. 280—58)

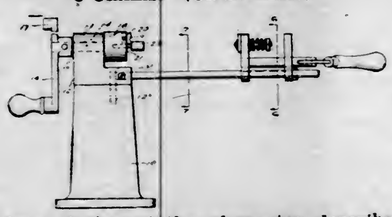
1. A wheeled vehicle of the push cart and barrow type, comprising diagonally trussed side frames and a crossed truss member, each frame

including an elongated bar element, a portion of which constitutes an elongated handle extension, each side frame having a strut element inclined downwardly and inwardly from the forward upper corner of the frame and joined to the forward end of the aforesaid elongated diagonal truss element and further including a leg member attached at its upper end to the intermediate part of said elongated diagonal truss member and extending substantially perpendicularly thereto and having its lower end attached to the lower inner end of said crossed truss member of the side frame, a flat main body panel having cleats on its under side and contiguous to its longitudinal side edges, said cleats being respec-



tively secured at their outer ends to the forward upper corners of the side frames and at their inner ends to the intermediate portion of the respective elongated truss elements of the frames and adjacent to the upper ends of said leg members, and an elongated cylindrical roller element disposed transversely of the vehicle and overhung fully by the forward end portion of said main body panel, said roller element having an axle extending therethrough and fixedly attached thereto so as to rotate thereby and therewith, the outer end portions of said axle being journaled in bearings provided therefor on the side frames of the vehicle adjacent the lower forward corners thereof.

2,406,170
CARTRIDGE CASE TRIMMER
Gerald Thomas Smiley, San Fernando, Calif.
Application November 1, 1944, Serial No. 561,446
3 Claims. (Cl. 29—1.32)



1. In a device of the character described in combination, a base, a frame extending from said base, a rotatable blade carried by said base, and means on said frame for clamping a cartridge in juxtaposed relation to said blade, said means including a block on said frame, a plate having an aperture therein adjacent said block, resilient means biasing said plate toward said block, and means for separating said plate and block.

2,406,171
MECHANICAL PENCIL
Blanchard Drake Smith, Atlanta, Ga., assignor to Scripto Manufacturing Company, Atlanta, Ga., a corporation of Georgia
Application August 17, 1943, Serial No. 498,952
6 Claims. (Cl. 120—18)

6. A mechanical pencil structure comprising in combination: a central cylindrical body member formed with a marking-element receiving bore, with a longitudinal slot opening to said bore and to the surface of the body, and with a second slot diametrically opposite the first named slot and opening to said bore; the width of said slots being less than the diameter of said bore; an internally screw-threaded cylinder member surrounding said body member; said members associated for relative rotation; marking-element clutch means mounted to travel in said slots; marking

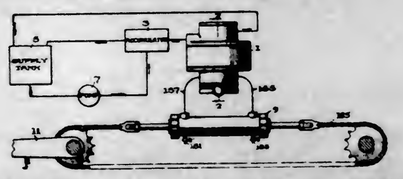


element drive means also traveling in at least one of said slots and having screw thread segments coacting with said internal screw threads; and means coacting between said drive and clutch means to cause movement of a marking-element gripped by said clutch means.

2,406,172
PLATINUM OR ALLIED METALS, OR THEIR ALLOYS, AND ARTICLES MADE THEREFROM
Colin James Smithells, Rugby, England, assignor, by mesne assignments, to Baker and Co. Inc., Newark, N. J.
No Drawing. Application March 9, 1943, Serial No. 478,552. In Great Britain February 7, 1942
6 Claims. (Cl. 75—22)

1. A material in the form of a compacted and sintered agglomerate of a metal chosen from the group consisting of platinum, rhodium, iridium, ruthenium, palladium and alloys of these metals, and a refractory oxide, the constituents being initially in a finely divided condition.

2,406,173
SERVOMOTOR AND CONTROL THEREOF
William T. Stephens, Cleveland, Ohio, assignor to Hydraulic Control Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1943, Serial No. 483,312
13 Claims. (Cl. 121—41)



1. In a hydraulic control system for use with a source of high pressure liquid, in combination, a double-acting servo-motor having similar liquid displacement at the two ends thereof, a control valve element movable to selectively deliver high pressure liquid directly to either end of the motor, a double acting valve motor having two

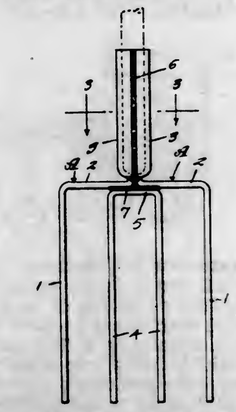
chambers, a second valve element associated for movement by said valve motor and providing a follow-up for the first valve element, means to deliver all of the liquid discharged from the inactive end of the servo-motor to that chamber of the valve motor which will cause movement of the follow-up valve element to close off flow to the servo-motor, and means to maintain said last mentioned chamber closed during said delivery whereby said follow-up is instantaneous.

13. Valve means for use with a servo-motor control system including in combination a multiple control valve having a manually movable element assembly and a fixed element, passages in said element and assembly adapted for alignment to conduct fluid, said members when in "off" position having lap to prevent leakage, a scale part, a pointer part to cooperate with said scale to indicate the actual amount of relative movement of said parts after said lap has been passed, means securing one of said parts to a stationary portion of the valve, and means providing a lost motion connection for the other part to said movable valve element, the amount of lost motion provided being just sufficient to compensate for said lap.

2,406,174
BACTERIAL PROCESSES
Jacob L. Stokes, Scotch Plains, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application October 1, 1942, Serial No. 460,423
7 Claims. (Cl. 195—96)

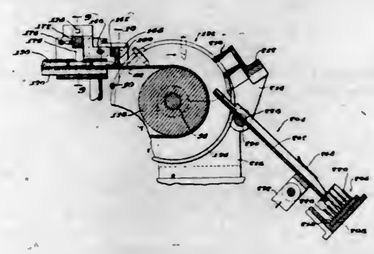
1. In a process for obtaining an anti-bacterial substance the step that includes cultivation of strains of *Bacillus brevis*, under aerobic submerged conditions, in an aqueous medium containing as a source of nitrogen a substance selected from the group consisting of β-alanine, dl-phenyl alanine, dl-aspartic acid, glycine, dl-α-alanine, laevo-hydroxyproline, dl-threonine, dl-serine, dl-valine, dl-glutamic acid, dl-leucine, laevo-proline, laevo-histidine monohydrochloride and dl-isoleucine.

2,406,175
SPADING FORK
Benjamin F. Talley, Culver City, Calif.
Application September 11, 1945, Serial No. 615,641
1 Claim. (Cl. 294—49)



A fork comprising two substantially duplicate side members, each including a tine, an inwardly disposed arm at one end portion of the tine and an outwardly disposed arm at the outer extremity of the first arm, said arm being substantially semicircular in cross section, the marginal portions of the arms being in close contact, means for rigidly connecting said marginal portions, and an intermediate member substantially U-shaped in form, the side arms of which constitute tines and the intermediate connecting member having close contact from below with the adjacent end portions of the first-named arms of the side members, and means for rigidly securing said intermediate connecting member to said first-named arms.

2,406,176
BULLET HANDLING APPARATUS
Robert William Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application January 21, 1943, Serial No. 473,092
6 Claims. (Cl. 198—33)

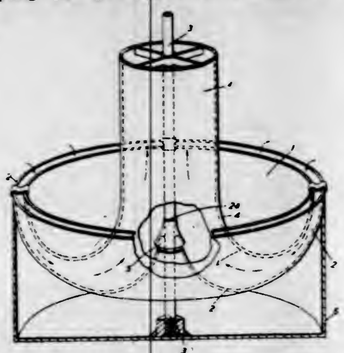


1. In a bullet handling machine, the combination with means including an endless conveyor for feeding bullets in adjacent horizontally disposed longitudinal rows end to end without discrimination as to whether the pellet ends point forwardly or rearwardly, of orienting mechanism comprising spaced rotary disks between which said conveyor passes and by which the bullets are fed in a horizontal position to be engaged along their sides in a manner such as to permit swiveling of the bullets as they are carried between said rotating disks whereby to dispose the heavier or pellet end of each bullet downwardly, and a delivery chute disposed on the opposite side of said spaced disks and having a plurality of fingers extended between the disks disposed to cause the bullets to be discharged with their pellet ends foremost.

2,406,177
DUST REMOVER AND FILTER
Cecil Gordon Vokes and Edward Arthur Stokes, London, England; said Stokes assignor to Vokes Limited, London, England
Application December 21, 1943, Serial No. 515,172
In Great Britain December 14, 1942
3 Claims. (Cl. 183—79)

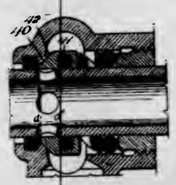
1. In an air cleaner of the centrifugal type, a tube through which air is exhausted upwardly, the lower end of said tube being flared back substantially 180 degrees, said flared portion beginning and terminating in a common plane normal to the axis of said tube, means forming a wall spaced along said axis from the flared end of said tube, said wall and flared end having their outer edges spaced and substantially concentric of said axis, said spacing gradually increasing toward said axis, said wall terminating inwardly in an aperture within said tube below said plane, a

deflector cap positioned above said aperture and overlapping the periphery thereof, and a dust



receptacle fitted to said wall and extending below said aperture.

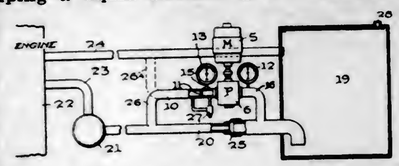
2,406,178
RELIEF VALVE
Herbert H. Walley, Jr., Providence, R. I.
Application September 2, 1943, Serial No. 501,018
2 Claims. (Cl. 137—53)



1. In a valve device automatically operated by a predetermined rise in fluid pressure, a conduit comprising an open ended tubular member provided with a plurality of circumferentially aligned openings therein, a valve body surrounding said conduit and provided with an annular seat surrounding and spaced from said conduit and adjacent said openings, packings engaging the body and conduit on either side of the said openings and seat to seal fluid from escape from the body, said body having a port leading therefrom, an annular valve slidably engaging said conduit and having a surface engaging said annular seat, a packing round in cross section engaging said valve and said conduit sealing the escape of fluid between said valve and said conduit, the adjacent surfaces of said annular seat and said conduit being so selected as to present a predetermined area of the valve to the pressure fluid and a spring urging said valve to engage said seat against said pressure fluid with a predetermined force.

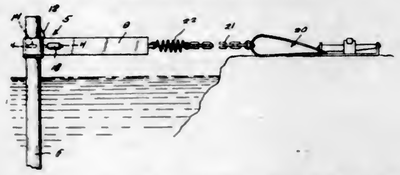
2,406,179
METHOD AND APPARATUS FOR MEASURING AIR ENTRAINMENT
Bruce R. Walsh, Wilkinsburg, and George S. Peterson, Penn Township, Allegheny County, Pa., assignors, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York
Application November 24, 1943, Serial No. 511,604
7 Claims. (Cl. 73—53)

1. The method of continuously indicating the percentage of gas in a liquid-gas mixture which comprises preparing a calibration chart of a positive displacement pump driven at constant speed and discharging through a constant resistance, in which pump discharge pressures are plotted against pump inlet pressures for liquids containing various known percentages of entrained gas, thereby obtaining a series of characteristic curves, pumping a liquid containing an unknown per-



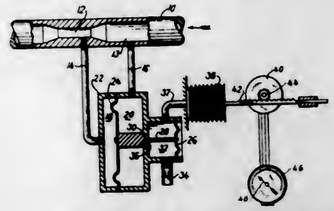
centage of entrained gas with said pump at said speed and through said resistance, determining the inlet and outlet pressures of the liquid and noting the percentage of entrained gas in the liquid represented on the chart by the curve having the nearest comparative corresponding pressure readings.

2,406,180
TRAPPER'S STAKE
Ivan W. Wampler, Cambridge City, Ind., and Quinton P. Morgan, Arnoldsburg, W. Va.
Application October 9, 1944, Serial No. 557,826
2 Claims. (Cl. 43—96)



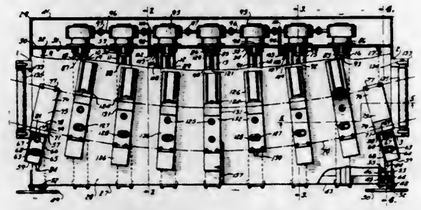
1. A trapper's stake comprising a post, a rotatable arm on the post, trap attaching means at the outer end of the arm, said post being provided with an off-shore located recess, said arm being provided with a spring-pressed latch member for entering the recess when the arm is moved to an off-shore position.

2,406,181
FLOWMETER
Francis J. Wiegand, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application January 14, 1943, Serial No. 472,409
3 Claims. (Cl. 121—41)



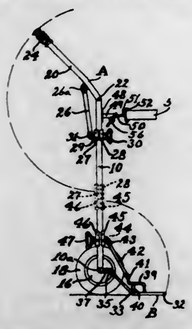
1. In apparatus for transforming a small pressure differential into a larger pressure differential, the individual pressures of said small pressure differential both being greater than atmospheric pressure, a housing, a first movable member dividing said housing into a pair of opposed chambers, means for subjecting said member and chambers to said small pressure differential, the wall of the high pressure chamber removed from said member having an opening therethrough into a third chamber, a second movable member in said third chamber connected to said first member for joint movement therewith by means extending through said opening, said second member being of smaller effective area than said first member, a valve element formed on said connecting means for cooperation with said opening, the other side of said second member being subjected to atmospheric pressure, a restricted vent for said third chamber, and means responsive to the pressure differential across said second member.

2,406,182
BENDING APPARATUS
Arthur H. Zeitz, Kansas City, Mo., assignor of one-half to Charles S. Foreman, Kansas City, Mo.
Application September 11, 1943, Serial No. 501,965
6 Claims. (Cl. 153—32)



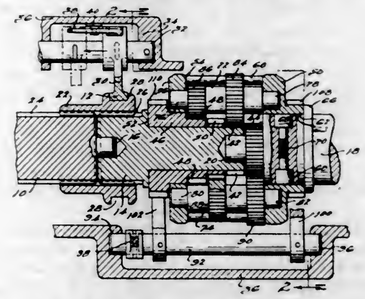
1. In a pipe bending machine, a frame adapted to receive a pipe to be bent, a plurality of guides arranged transversely of said frame, pipe engaging bucks movably mounted in the respective guides, the end bucks facing in the opposite direction of the intermediate bucks, means for adjusting the end bucks to effect engagement of all the bucks with the pipe, screws in the respective intermediate guides for moving the respective bucks, each of the screws located toward the center of the frame having longer lead than the adjacent outer screw whereby the center buck moves relatively faster than the outer bucks, and means for simultaneously rotating said screws in the intermediate guides for moving the respective bucks toward the pipe to bend said pipe.

2,406,183
MECHANICAL CADDY
Ralph E. Allen, Wichita, Kans.
Application October 21, 1944, Serial No. 559,867
6 Claims. (Cl. 280—36)



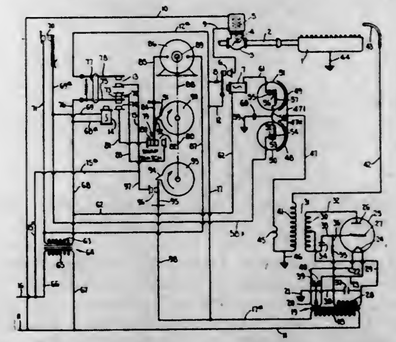
1. In a mechanical caddy, the combination of a frame, an axle on said frame, wheels on said axle, a handle element, and a golf bag supporting platform, and an upper support for the upper end of a golf club bag, said handle element being pivotally adjustable on the upper portion of said frame and having link means for holding said handle element in selected adjustable positions relative to said frame, and means for holding said golf club bag supporting platform in selected adjusted positions relative to said frame, and means for holding said support for the upper end of the golf club bag in selected spaced positions from the frame.

2,406,184
TRANSMISSION
James Shellenbarger Alspaugh, Portsmouth, Ohio
Application August 14, 1944, Serial No. 549,342
2 Claims. (Cl. 74—271)



1. A transmission comprising driving and driven shafts having axially spaced pinion gears, a sun gear sleeve rotatably mounted on the driving shaft and having two axially spaced sun gears of different diameters, a planet pinion carrier concentrically mounted on the driving and driven shafts, a shaft journalled in the planet pinion carrier, axially spaced pinion gears of different diameters fixed to said shaft and connecting the driving shaft pinion with one of the sun gears of the sun gear sleeve, a second shaft journalled in the planet pinion carrier, axially spaced pinion gears of different diameters fixed to said second shaft and interconnecting the other of said sun gears carried by the sun gear sleeve with the driven shaft pinion, and means to selectively lock the sun gear sleeve or the planet pinion carrier to transmit power from the driving shaft to the driven shaft at varying speed and torque ratios.

2,406,185
IGNITION CONTROLLING MEANS
Fred B. Aubert, Grosse Pointe, Mich.
Application May 13, 1943, Serial No. 486,829
9 Claims. (Cl. 158—117.1)



1. A burner control apparatus comprising a gaseous fuel burner, means to supply fuel to said

burner, an electrically operable valve controlling the supply of fuel through said means to said burner and normally biased to closed position, a spark discharge electrode for igniting the fuel supplied to said burner, means including a pair of relay switches in series circuit and controlling the energization of said valve, means to supply electrical energy to said electrode, means including one of said relay switches controlling the operation of said energy supply means, means including a main control switch controlling said one relay switch, means responsive to predetermined operation of said energy supply means for controlling the other of said relay switches, and time interval control means operable, when preconditioned, to control operation of said energy supply means to supply electrical energy to said electrode for a predetermined period, said interval control means being preconditioned upon closure of said main switch and being rendered effective to perform its controlling operation by opening of said main switch.

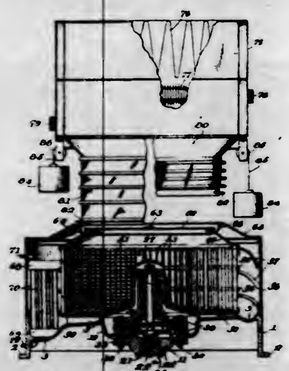
2,406,186
MANUFACTURE OF SURFACE-ACTIVE COMPOUNDS
Alfred William Baldwin, Noel William Cusa, and Henry Worthington, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 14, 1943, Serial No. 472,388. In Great Britain January 30, 1942
9 Claims. (Cl. 260—561)

5. Compounds of the formula

$$AR^2N(—CO—CHR'—NR)_nH$$

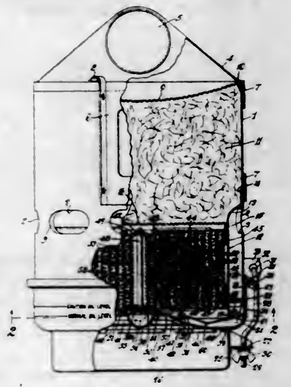
wherein n is an integer from 1 to 30, R^2 is hydrocarbon, A is selected from the class consisting of hydrogen and hydrocarbon, one of R and R' is hydrogen and the other is selected from the class consisting of hydrogen and methyl.

2,406,187
PNEUMODYNAMIC EXTRACTOR
Patrick A. Bayless, Syracuse, N. Y.
Application August 24, 1942, Serial No. 455,945
9 Claims. (Cl. 210—66)



1. A pneumodynamic extractor of the character described comprising a housing volute in cross section formed with a liquid discharge channel in its lower portion communicating with a tangential discharge opening, a cylindrical basket rotatably mounted in said housing, said basket having perforated side walls permitting the passage of fluids and a solid bottom wall, and a plurality of substantially radially arranged and spirally shaped impeller ribs formed on the outer surface of the solid bottom wall of said basket to cooperate with said volute housing to centrifugally pump liquid on the base of said housing toward said channel and through said discharge opening of said housing when the basket is rotated.

2,406,188
MOUNTING FOR CLEANER ELEMENTS
John T. Beatty, Kenilworth, and Dale L. Bennett, Flossmoor, Ill., assignors to United Specialties Company, Chicago, Ill., a corporation of Delaware
Application March 25, 1943, Serial No. 480,458
7 Claims. (Cl. 183—15)

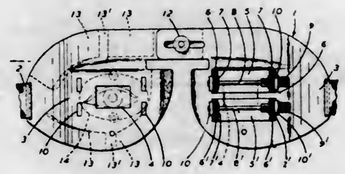


7. In combination in an air cleaner, a housing member forming a gas passage, a removable open-sided filter assembly positioned therein, said assembly including a plurality of perforate supporting members and means for holding them in spaced apart relation, each of said supporting members having an annular flange, the flanges of the members extending toward each other, said housing having a stop against which one of said supporting members abuts when the filter is in position, said housing having also and engagement part, there being a handle movably mounted upon one of said supporting members, and a spring latch part movably positioned on said handle and adapted, when the filter assembly is in position within the housing, to be latched upon said engaging member, a cup means removably closing said air cleaner, parts in said cup means adapted, when the cup is in position, to cover said handle and said latch means and to prevent their movement, and a spring part carried by one of said supporting members and positioned to be contacted and compressed by the said parts which are fixed upon said cup means.

2,406,189
METHOD FOR TIN PLATING
Newell F. Blackburn, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 20, 1943, Serial No. 487,813
7 Claims. (Cl. 204—54)

1. A process for electroplating tin which comprises electrolyzing an aqueous solution of an alkali metal stannate and an alkali metal hydroxide with an alloy anode comprising essentially tin and at least one alkali metal, the total alkali metal content of said anode being 0.1 to 10% by weight.

2,406,190
APPARATUS FOR IMPROVING THE EFFECTIVE USE OF EYESIGHT AND PREVENTING STRAIN ON THE EYES
Charles Laurence Burdick, Brighton, England
Application September 8, 1944, Serial No. 553,154
In Great Britain April 4, 1944
1 Claim. (Cl. 88—41)

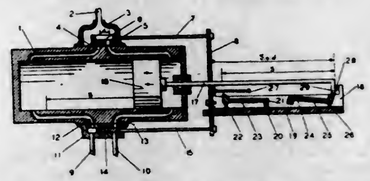


A mask having apertures therein and adapted to cover that portion of the wearer's face immediately surrounding the eyes and constructed to exclude direct extraneous light except through said apertures, said apertures being of sufficient height to include the centers of the pupils of any normal eyes, a pair of shutters for each aperture, and means to adjust each of said shutters up and down to define between the shutters a slit of the desired width opposite the center of the pupil of the eye behind the same, said means consisting of toothed racks on the ends respectively of each shutter, and a rotatable toothed member on the mask which meshes with said racks.

2,406,191
MANUFACTURE OF ELASTIC COMPOSITION SUITABLE FOR ELECTRICAL CABLE INSULATION
Hugh J. Cameron, Gary, Ind., assignor to Edgar F. Seifert, Chesterton, Ind.
No Drawing. Application January 11, 1943. Serial No. 472,071
6 Claims. (Cl. 260—42)

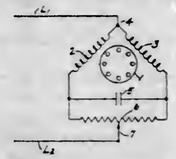
1. The method which comprises subjecting polystyrene consisting of a polymerized mass originally consisting substantially entirely of styrene and characterized by a flow-time of at least 120 seconds for a flow of 1.5 inches as tested in a Rossi-Peekes plastometer at 130° C. with 1,000 lbs. pressure per sq. in., to the masticating mixing action of two adjacent parallel mixing rolls having a plasticizing temperature for the polystyrene of at least 300° F. and rotating in opposite directions at different speeds, whereby the polystyrene is rendered plastic and capable of assimilating polyisobutylene, continuing the masticating action and gradually adding to the mass being masticated a polymer consisting of polyisobutylene characterized by a normally solid state at 70° F. and by a molecular weight of at least 60,000, as determined by viscosity using the Staudinger equation, until a quantity of from 1 to 9 parts of polyisobutylene has been added to 1 part of polystyrene, whereby the added polyisobutylene is gradually incorporated into a resulting uniform mixture of said polystyrene and said polyisobutylene, and after the addition of the last of the polyisobutylene continuing the mastication until the last added material is uniformly incorporated into the mixture.

2,406,192
SAMPLING APPARATUS
Cyrus D. Cantrell, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 26, 1943, Serial No. 473,653
4 Claims. (Cl. 137—166)



3. In an apparatus for obtaining representative samples of a flowing stream of fluid, a main flow line for said stream, a cylinder, a piston reciprocable within the cylinder, means including a valve for alternatively conveying fluid from the main flow line at a given point into each end of the cylinder, a fluid sampler line connected to one end of said cylinder, a sample receptacle connected to said fluid sampler line, a discharge line connecting the other end of said cylinder to said main flow line down stream of said given point, and means including a valve for alternately establishing communication between the cylinder and said sampler and discharge lines, whereby a given quantity of fluid from the main line is delivered in definite proportions to said sample receptacle and back into said main flow line.

2,406,193
ELECTRIC MOTOR
George Leslie Carson, Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 27, 1945, Serial No. 574,854
3 Claims. (Cl. 172—278)

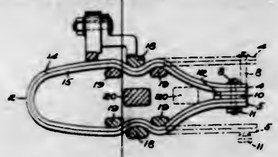


1. A reversible, variable speed induction motor comprising a rotor, a pair of field windings angularly displaced to produce a rotating field, said windings having one common terminal, a capacitor connected across the remaining terminals of said windings, and a potentiometer having its resistor element connected across said capacitor, said common terminal being adapted for connection to one side of the line and the moving contactor of said potentiometer being adapted for connection to the other side of the line.

2,406,194
METHOD OF MAKING CHECKSTRAPS
Latt J. Carter, Kannapolis, N. C., assignor to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts
Original application February 26, 1944, Serial No. 523,991. Divided and this application January 17, 1945, Serial No. 573,291
4 Claims. (Cl. 69—21)

1. The improved process of making an open end check strap of the kind described, with an in-

termediate plug united at the open ends of said strap, which consists in preparing a check strap of suitable length to permit a pre-beveling and premolding at the middle portion, together with a range of adjustability for length at the open end portion, thereupon premolding the middle



portion into U-shaped contour with a predetermined bevel, preparing a plug member for fitting between the open ends, said plug member having a preformed face substantially corresponding to the preformed bevel of the U-portion, and thereupon uniting the open ends and the intermediate plug to complete the check strap.

2,406,195
MANUFACTURE OF THE HIGHER CHLORIDES OF METHANE
Oliver W. Cass, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 17, 1944, Serial No. 522,799
2 Claims. (Cl. 260—657)

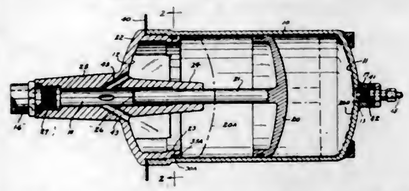
1. The process of preparing the chlorides of methane which comprises reacting a material selected from the group which consists of methyl chloride and mixtures of methyl chloride and methane with chlorine; cooling the resultant gaseous reaction product, condensing the higher chlorides of methane, scrubbing the uncondensed portion of said reaction product with the condensed portion so as to substantially completely remove high boiling products, carbon and tars from said uncondensed portion while maintaining the hydrogen chloride and a major portion of the methyl chloride in the gaseous phase; adding methanol to said gaseous portion and passing the resulting gaseous mixture in contact with a catalytic mass promoting reaction between methanol and hydrogen chloride at an elevated temperature, thus forming methyl chloride and water; removing water and unreacted methanol from the resulting gaseous reaction product; and returning said purified gaseous reaction product to prepare further amounts of the chlorides of methane.

2,406,196
LIMIT SWITCH SYSTEM
John Alfred Chilman, Gloucester, England, assignor to Rotol Limited, a British company
Application February 2, 1943, Serial No. 474,449
In Great Britain December 22, 1941
3 Claims. (Cl. 172—239)



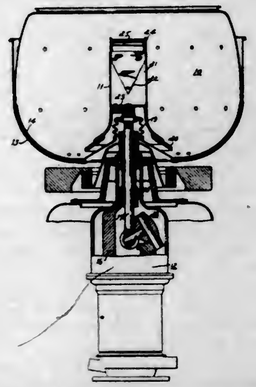
1. In combination with a three-phase motor, and a three-phase supply line for the motor, of a control comprising a normally open electro-magnetic switch connected to one phase of the motor, a reversing switch connected to another phase of the motor and to said electromagnetic switch and also to two of the lines of the supply for reversing the motor, a two way selector switch connected to the third line of the supply, two circuits connecting said selector switch with the third phase of said motor, a limit switch and a coil of said electromagnetic switch being in each of said circuits whereby closing of either circuit by said selector switch will cause closing of the electromagnetic switch.

2,406,197
ACCUMULATOR
Niels A. Christensen, South Euclid, Ohio
Application May 26, 1943, Serial No. 488,530
4 Claims. (Cl. 138—31)



1. An accumulator having in combination a cylinder, a piston disposed therein and operating as a partition to divide the cylinder into two chambers, means for introducing gas under pressure into one chamber, means for introducing liquid under pressure into the other chamber, the cylinder having end walls therein, one of the walls having a tubular portion extending into the cylinder and the piston having a rod projecting into and guided by such tubular portion, said piston having a sealing device to prevent the escape of fluid from one chamber to the other, said device including a groove in the piston and a resilient packing element disposed in the groove, the packing element being deformed by movement of the piston into the cylinder and the groove being larger than the deformed ring whereby the ring is free to oscillate upon reciprocating movement of the piston within the cylinder, said tubular portion having a laterally extending passageway establishing communication between the cylinder and the interior of the tubular portion.

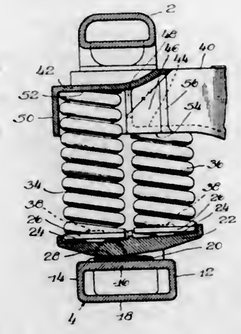
2,406,198
DOMESTIC APPLIANCE
Kendall Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 28, 1942, Serial No. 432,861
5 Claims. (Cl. 68—17)



1. A washing apparatus comprising a tub adapted to contain washing liquid and articles to

be washed, a vertically reciprocable shaft extending upwardly through the bottom of said tub, an agitator in said tub secured to said shaft, said agitator being outwardly flared at the bottom and having a detergent chamber in its upper part provided with a perforate wall at the bottom of said detergent chamber in open communication with said tub, and a removable cover in sealing engagement with the upper part of said agitator to permit insertion of detergent into said chamber while said agitator is in operative position in said tub.

2,406,199
CAR TRUCK
Claus J. Werner Clasen, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application November 4, 1943, Serial No. 508,878
26 Claims. (Cl. 105—197)

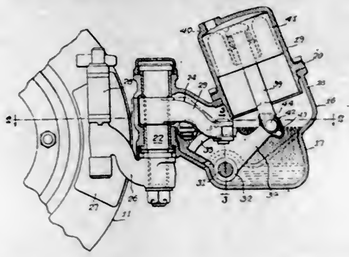


13. In a railway car truck, a side frame, a spring group supported from said frame and comprising a long travel spring and a short travel spring, a bolster supported from said group, and rocker means interposed between said group and said frame, said rocker means being tiltably seated on said frame and interlocked therewith by means of spaced lugs on said frame received within complementary recesses in said rocker, said springs being so arranged that their vertical axes are disposed at opposite sides of the tilting axis of said rocker means.

2,406,200
CATALYTIC TREATMENT OF HYDROCARBON OILS
Robert M. Cole, Long Beach, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 27, 1944, Serial No. 565,399
4 Claims. (Cl. 196—24)

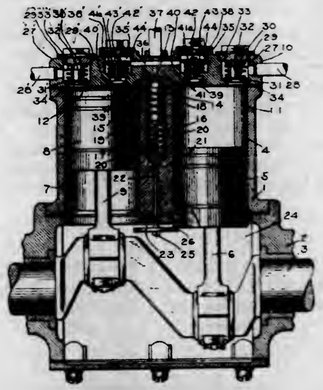
1. In the substantially continuous catalytic hydrogenation of sulfur-containing hydrocarbon oils of the nature of gasoline to effect removal of sulfur while substantially maintaining the anti-knock properties, the improvement which comprises effecting the hydrogenation with an active preformed heavy metal sulfide hydrogenation catalyst which has been preconditioned by its continuous employment for at least two hundred hours for the catalytic dehydrogenation of a relatively sulfur free hydrocarbon fraction prior to its application in said hydrogenation.

2,406,201
BRAKE MECHANISM
Joseph H. Coombes, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 29, 1944, Serial No. 524,374
5 Claims. (Cl. 188—153)



1. In a brake mechanism, a rotary disc-like brake element having opposed braking faces, a pair of non-rotary brake elements arranged in cooperative relation to the opposed faces of said rotary element, a support for said non-rotary elements comprising a closed sealed housing, a pair of brake levers, one cooperating with each non-rotary element, pivotally mounted in said housing and each having an arm extending into said housing, and means for applying equal forces to said arms to force them apart, said means comprising a floatingly mounted wedge-like cam mounted independently of the levers in the lower part of the housing which serves as a lubricant container for lubricating the cam and movable between said arms and power means for moving it disposed within the housing.

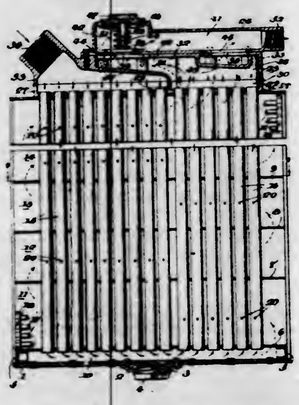
2,406,202
AIR COMPRESSOR
Philip L. Crittenden, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 28, 1943, Serial No. 515,920
10 Claims. (Cl. 230—184)



1. In a fluid compressor of the type comprising two pistons and means connected to said pistons for actuating first one and then the other to compress fluid, in combination, a communication for permitting fluid to flow between the pressure sides of said pistons, a valve for opening and closing said communication, means for effecting the operation of said valve to open said communication as an incident to either piston

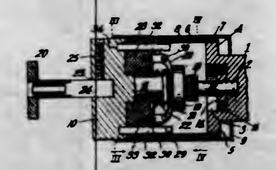
reaching substantially the end of its inlet stroke, and means for effecting the operation of the valve to close said communication at all other times.

2,406,203
AUTOMATIC OIL CONDITIONER
Harold Cruzan and Edward C. Warrick, Dayton, Ohio, assignors to United Aircrafts Products, Inc., Dayton, Ohio, a corporation of Ohio
Application August 22, 1942, Serial No. 455,820
12 Claims. (Cl. 257—2)



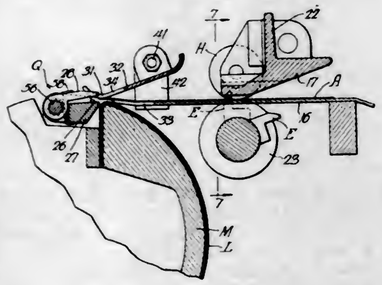
1. An apparatus for automatically controlling the viscosity of a liquid which is subjected to varying temperature changes, including a casing having an outlet, a plurality of open-ended tubes within the casing for the passage of a coolant therethrough and for the passage therearound of the liquid to be controlled, a plurality of inlet and outlet warm-up tubes in the casing and spaced apart so that the liquid can flow between them exteriorly, the ends of which warm-up tubes are open, and the lower ends being spaced from the casing bottom and having communication with the casing, a liquid distributing head having an inlet and an outlet carried by the casing and overlying the warm-up tubes and casing outlet and in communication therewith, said distributing head having a passage for the liquid flowing from the outlet warm-up tubes to the outlet of said head and a second passage for the liquid flowing from the casing to the outlet of said head, and valve means disposed within the first-named liquid passage of the distributing head and biased to closed position to control the passage of liquid therethrough.

2,406,204
TAP OPERATING MECHANISM
Samuel E. Dansel, Cheyenne, Wyo.
Application December 30, 1944, Serial No. 570,577
5 Claims. (Cl. 10—89)



1. A tap operating mechanism comprising a non-rotatable member, a rotatable member carried by the first-named member and including a head having a circular series of sockets and a shank axially of said members, a tap projecting forward from the rotatable member in alinement with said shank, and a revolving work-piece having an opening axially alined with the tap, a clutch on and movable with the shank, a collar on and rotatable with the shank, locking pins carried by and slidable on the non-rotatable member toward and from the head of the rotatable member for engagement with or from the sockets of the said head, rock-levers carried by the non-rotatable member and engaging said locking pins, and an expansion spring interposed between the non-rotatable member and the rock-levers; the advance of the assembly effecting engagement of the tap with the opening of the work-piece to thread said opening and to cause said collar to operate said rock-levers against the resistance of said spring, to withdraw the locking pins from said sockets and free the rotatable member to spin with the work-piece.

2,406,205
PRINTING PRESS
William Ward Davidson, Evanston, and Frank J. Breman, Chicago, Ill., assignors to Davidson Manufacturing Corporation, a corporation of Illinois
Application December 7, 1942, Serial No. 468,100
6 Claims. (Cl. 101—232)



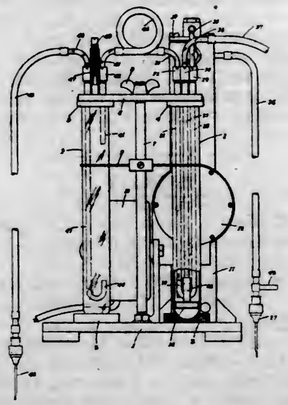
1. A printing press including a printing couple one member of which is a printing roll, gripper and registration stop means having a fixed position with respect to said roll at the time that a sheet held thereby enters the bite of the printing couple, means for causing the gripper means to open to receive a sheet, and means for feeding a sheet against the stop means while said gripper means is open comprising feeder stop fingers, means for feeding a sheet against the stop fingers in timed relation to the operation of the press, means for side-registering the sheet before it leaves the feeder stop fingers, guide means inclined toward the feeder stop fingers and projecting between the feeder stop fingers to ensure engagement of a sheet with said feeder stop fingers, means for engaging the sheet adjacent the feeder stop fingers while it is in contact therewith and forwarding the sheet to the gripper and stop means, said stop means blocking the throat of the gripper, a table on which the sheet slides between the stop fingers and gripper and stop means, guide means converging toward the table to direct the leading edge of the sheet close to the table, and final guide means fixed with respect to the table and extending into close proximity with the printing couple for causing the sheet to bend beyond the table to a direction proper for entering the opened gripper means, the plane of the open gripper means intersecting the plane of said final guide means whereby passage of the sheet between the final guide means and the gripper means is positively prevented.

2,406,206
HYDROXYACETYLATED DRASTICALLY-OXIDIZED RICINOLEIC ACID COMPOUNDS AND METHOD OF MAKING SAME
Melvin De Groote, University City, Bernhard Keiser, Webster Groves, and Arthur F. Wirtel, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 6, 1943, Serial No. 493,684
6 Claims. (Cl. 260—406)

1. A new composition, consisting of a hydroxyacetylated drastically-oxidized ricinoleic acid compound selected from the class consisting of blown castor oil, blown triricinolein, blown diricinolein, blown monoricinolein, blown superglycerinated castor oil, superglycerinated blown castor oil, blown ricinoleic acid, blown polyricinoleic acid, and blown castor oil estolides; the ratio of monomeric hydroxyacetic acid to ricinoleic acid radicals present prior to drastic oxidation being at least 2 to 1 and not more than 3 to 1.

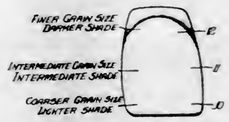
6. In the manufacture of the compound described in claim 1, the steps of (*a*) drastically-oxidizing a ricinoleic acid compound selected from the class consisting of blown castor oil, blown triricinolein, blown diricinolein, blown monoricinolein, blown superglycerinated castor oil, superglycerinated blown castor oil, blown ricinoleic acid, blown polyricinoleic acid and blown castor oil estolides; and (*b*) hydroxyacetylating said aforementioned drastically-oxidized ricinoleic acid compound; the ratio of monomeric hydroxyacetic acid to ricinoleic acid radicals present prior to drastic oxidation being at least 2 to 1 and not more than 3 to 1.

2,406,207
BLOOD TREATING DEVICE
John P. Desmet, Modesto, Calif.
Application October 4, 1944, Serial No. 557,160
8 Claims. (Cl. 128—214)



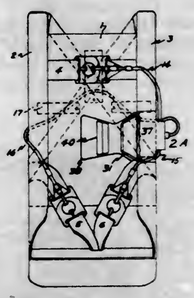
3. A blood treating device comprising a pair of vertically elongated receptacles, three rigid tubes projecting into one of the receptacles from above, a pump having an intake and an outlet, a flexible conduit connected at one end to the pump intake and having a transfusion needle at the other end, means connecting one of said tubes in connection with the pump outlet, a source of gas under pressure, means connecting the second of said tubes in valved communication with said source, two rigid tubes projecting into the other receptacle from above, means connecting the third tube of said one receptacle in communication with one tube of said other receptacle, another flexible conduit connected at one end in communication with the second tube and said other receptacle, and a transfusion needle on the end of said other flexible conduit.

2,406,208
CERAMIC ARTICLE AND MATERIAL AND METHOD FOR COLORING OR SHADING THE SAME
Reiner W. Erdle, Chicago, Ill., assignor to Dental Research Corporation, Chicago, Ill., a corporation of Illinois
Application March 4, 1944, Serial No. 525,012
9 Claims. (Cl. 32—8)



6. As a new article of manufacture, a porcelain tooth having an incisal portion formed of relatively coarse porcelain particles shaded to produce the desired shade along the incisal portion, a middle third portion formed of finer porcelain particles shaded to produce a different shade along said portion, and a gingival portion formed of a still finer porcelain particles shaded to produce a still different shade along the gingival portion of the tooth.

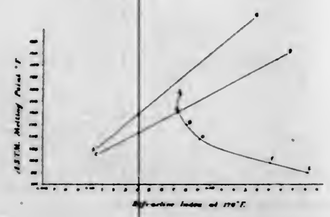
2,406,209
INSTANT RELEASE MEANS FOR PARACHUTE HARNESS
William H. Fausz, Newport, Ky.
Application October 10, 1944, Serial No. 558,009
13 Claims. (Cl. 244—151)



1. In combination with a parachute harness having side straps, a breast strap and two leg straps, points of separation in the breast and leg straps, strap portions at these points being respectively provided with plates one of which bears a conical stud and the other of which is

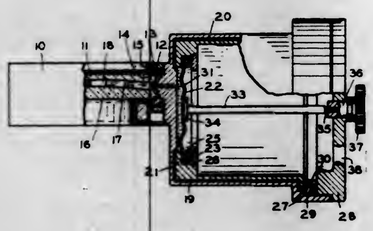
perforated to accept the stud, means engaging the stud to prevent its passage through the perforation, and means connecting said last mentioned means with an operating handle at a common operating point adjacent a side strap of the harness, said means comprising metal sheaths anchored to one of the said plates at one end and anchored at a common operating point at the other, and flexible cables passing through said sheaths attached at one end to said stud engagement means and at the other to a common operating handle, two of said sheath means following straps directly to the common operating point, and the third passing around the harness rearwardly of the body of a user to approach the common operating point from the other side.

2,406,210
METHOD OF CONTROLLING WAX SWEATING
Seymour W. Ferris, Mount Holly, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 19, 1942, Serial No. 462,653
7 Claims. (Cl. 196—20)



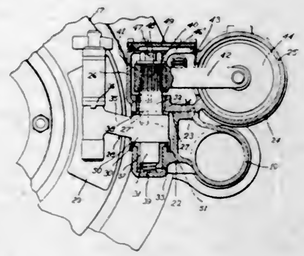
1. The method of sweating oily wax to produce substantially oil-free wax, which comprises sweating an oily wax, determining the refractive indices and the melting points of successive samples of the sweat stream, and terminating the sweating of the wax when a sweat stream sample exhibits a melting point higher than that of the preceding sample, and a refractive index at least as great as that of said preceding sample.

2,406,211
BUBBLE CELL
Edward F. Flint, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application November 27, 1943, Serial No. 511,987
3 Claims. (Cl. 33—212)



2. In a liquid level, a housing; a bubble chamber formed in said housing; a cylinder formed integral with said housing; said housing having a conduit leading from said bubble chamber to the interior of said cylinder; a substantially cup-shaped member nested in said cylinder; means for sealing the space formed between the inner wall of said cylinder and the outer wall of said member, the space forming a second chamber communicating with said bubble chamber; and a liquid filling said chambers, the cup-shaped member being formed of a material having a coefficient of expansion substantially smaller than that of the material of which the cylinder is formed so that a change in the temperature produces a change in the volume of said second chamber, one wall of said member having an opening therein; a flexible diaphragm closing said opening; and means for flexing said diaphragm for manually changing the volume of the liquid held by said second chamber.

2,406,212
BRAKE MECHANISM
Paul W. Gaenssle, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 3, 1944, Serial No. 524,862
7 Claims. (Cl. 188—153)

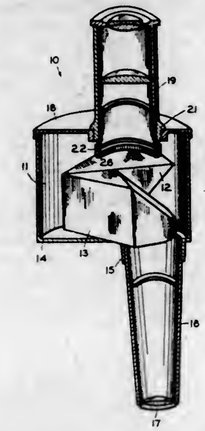


1. In a brake mechanism, a rotary brake member, a brake supporting member extending transversely adjacent the periphery of said rotary member, a seat on said support member opposite said rotary member, a brake cylinder housing removably supported on said seat, spaced aligned bearings disposed, respectively, on said support member and said brake cylinder housing, a brake lever pivotally mounted through journal portions thereon engaging the respective bearings, said lever having an arm disposed intermediate the bearings and adapted to operatively engage a non-rotary brake member disposed in cooperative relation with said rotary member and having another arm extending within said housing into cooperative relation with a brake cylinder therein.

2,406,213
DUST SHIELD
George B. Gallasch, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 26 1944, Serial No. 524,030
2 Claims. (Cl. 88—33)

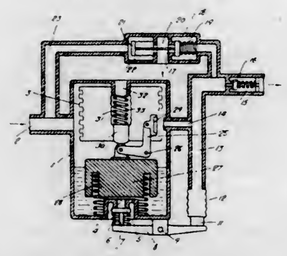
1. An optical instrument having in combination a casing provided with an aperture, an optical element mounted in the casing, said element having a surface spaced from and in alignment with the aperture, a lens tube mounted in said aperture and having an end projecting into the casing adjacent to but out of contact with said surface, a tubular member telescopically mounted

on said end, and gasket means carried by said member and adapted to engage the surface of



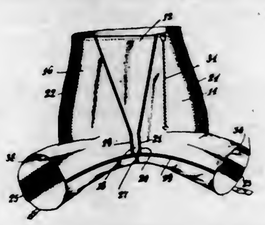
the element whereby the passage of dust through the tube and into the casing is prevented.

2,406,214
CLEANER FOR COMPRESSED AIR ARRANGED FOR AUTOMATIC DRAINING
Georges Garnier, Paris, France, assignor to Air-Equipment, Paris (Seine), France, a French company
Application August 8, 1945, Serial No. 609,681
In France August 10, 1943
4 Claims. (Cl. 183—39)



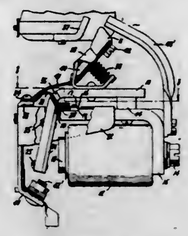
1. A device for purifying compressed air and draining the liquid separated therefrom comprising a casing, means for feeding compressed air thereto and removing it therefrom, an auxiliary compartment adapted to receive compressed air from the casing, purifying means inside the casing, a drain valve at the lower part of the casing, a passage including an outlet valve between the casing and the compartment, a weighted member adapted to be immersed in the liquid collecting in the lower part of the casing and to control the opening of the outlet valve, means submitted to the action of the fluid pressure beyond the outlet valve in the auxiliary compartment and adapted to control the drain valve and yielding means acting on the weighted member together with the upward thrust of a minimum amount of liquid at the bottom of the casing for reducing the apparent weight of said member and causing it to rise and operate the closing of the outlet valve whereby the fall in pressure beyond the outlet valve is adapted to open the drain valve.

2,406,215
FOUNDATION GARMENT
Carl Redman Glines, Hamden, Conn., assignor to Charis Corporation, a corporation of New York
Application March 17, 1945, Serial No. 583,241
1 Claim. (Cl. 2—43)



A foundation garment having a girdle portion and integral leg members comprising a plurality of fabric panels joined together longitudinally along seams with stitching perpendicular to the seams to form a girdle portion and stitched together along portions of the base edges of said panels to form leg members, the front section of the garment consisting of at least three panels the center panel of which has a relatively wide top edge with sides tapering longitudinally along straight lines from the wide top edge to a narrow base portion terminating in a narrow band extension having parallel sides of equal length integral therewith and aligned with the center line of the converging panels and adapted to fit across the crotch area, the base edge of said band extension being joined to the base end of the back panel members, the tapered sides of the center front panel when stitched to the corresponding sides of the adjacent panels forming seams which are disposed so as substantially to follow the groin lines of the wearer of the garment whereby force applied upwardly and outwardly at the top of said seams is applied perpendicularly to the stitching of said seams and is distributed along substantially the entire length of said seams, the parallel seams of the band extension being adapted to act as hinge members to obviate "pulling" of the garment when there is relative movement between such panel members.

2,406,216
ELECTROMAGNET
Leon J. Goldberg, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1943, Serial No. 484,519
5 Claims. (Cl. 175—336)



1. An electromagnet comprising an armature, an operating coil for said armature, said armature being provided with a pair of V-shaped slots on opposite sides of said armature, said slots being laterally disposed with respect to each other

with their bottoms coincident with a pivot axis for said armature, a knife-edge bearing member for said armature extending into the one of said slots on the lower side of said armature thereby pivotally to support said armature, and a spring arm having a knife-edge bearing at its end extending into the other of said slots thereby to hold said armature on said first knife-edge bearing.

2,406,217

UREA-FORMALDEHYDE REACTION PRODUCTS AND METHODS FOR PRODUCING THE SAME

Mortimer T. Harvey, South Orange, N. J., and Solomon Caplan, New York, N. Y., assignors to Harvel Research Corporation, a corporation of New Jersey

No Drawing. Application October 23, 1942, Serial No. 463,132
2 Claims. (Cl. 260—69)

1. The method of producing a stable aqueous solution of urea-formaldehyde condensation product which comprises heat reacting one to three moles of aqueous formaldehyde with a mixture containing one mole of urea and an amount of a mono-tertiary-alkyl-urea having from four to six carbon atoms in the alkyl group equal to from ten to thirty per cent of the urea.

2,406,218

REACTION CONDENSATION PRODUCTS OF TERTIARY ALKYL UREAS AND FORMALDEHYDE AND METHODS FOR PRODUCING THE SAME

Mortimer T. Harvey, South Orange, N. J., and Solomon Caplan, New York, N. Y., assignors to Harvel Research Corporation, a corporation of New Jersey

No Drawing. Application May 31, 1943, Serial No. 489,194
2 Claims. (Cl. 260—69)

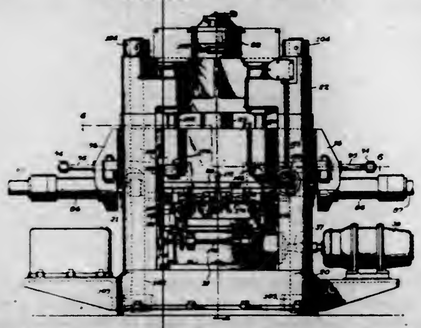
1. The organic condensation reaction product produced by heating a mixture of formaldehyde and a mono tertiary alkyl urea having four to six carbon atoms in the alkyl group, the mole ratio of the former to the latter in said mixture being between about 1–1 and 6–1.

2,406,219

ROLLING MILL

Franklin R. Hight and Robert O. Greenshields, Detroit, and Friedrich J. Mueller, Grosse Pointe Woods, Mich., assignors, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 21, 1942, Serial No. 469,660
19 Claims. (Cl. 80—16)



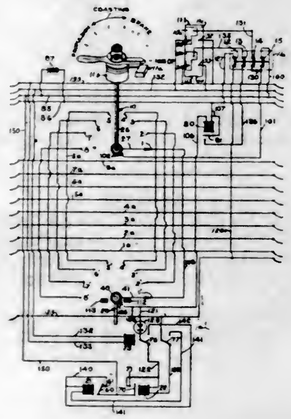
1. A rolling mill comprising a work support, a roll for forming a blank on said work support, a vertically movable roll supporting carriage, means for reciprocating said carriage vertically, a stop for limiting the downward movement of said carriage, screw means for adjusting and determining the position of said stop, means for manually operating said screw means to limit the first downward movement of said carriage and determine the size of the first roll pass, and means operated by the reciprocation of said carriage for adjusting said stop to reduce the size of succeeding working passes of said roll.

2,406,220

CONTROL APPARATUS

Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application February 9, 1944, Serial No. 521,639
15 Claims. (Cl. 172—179)



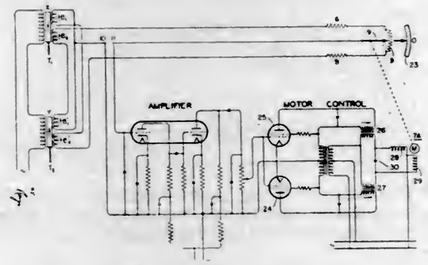
14. In an electrical remote control system, in combination, a plurality of manual controllers each of which has a movable contact member and a plurality of stationary contact elements with which the movable contact member cooperates in different positions thereof, a plurality of automatic controllers corresponding in number to the number of manual controllers, each of the automatic controllers having a movable contact member and a plurality of stationary contact elements disposed in correspondence with the relative location of the stationary contact elements of a corresponding one of the manual controllers with which the movable contact member cooperates in the different positions thereof, means electrically connecting each stationary contact element of a manual controller with a corresponding stationary contact element of all the other manual controllers and of the automatic controllers, reversible motive means for shifting the movable contact member of each of the automatic controllers in opposite directions, electroresponsive means electrically controlled over a circuit including the movable contact members of the manual controllers, the movable contact members of the automatic controllers, and the means electrically connecting the stationary contact elements of the manual controllers and automatic controllers, in a manner to cause the motive means of all of the automatic controllers to be operated, when the movable contact member of any one of the manual controllers is shifted from one of its positions to a different position, to move the corresponding movable contact member in a direction corresponding to the direction of movement of the movable contact member of the operated manual controller, and means for preventing all of the manual controllers except the operated one from being effective to control the motive means for the automatic controllers.

2,406,221

MEASURING SYSTEM

Anthony J. Hornfeck, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application May 31, 1945, Serial No. 596,909
12 Claims. (Cl. 177—351)



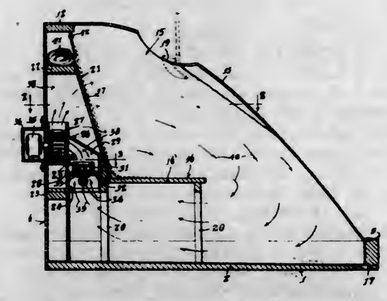
1. A telemetric system including in combination, a plurality of transmitters and a receiver, each transmitter including a primary and a pair of secondary windings and a core piece positioned responsive to a variable whose value is to be transmitted to the receiver, a common source of alternating current for the primary windings, a balanceable bridge circuit including in one arm one secondary of each transmitter, in the second arm the remaining secondaries of the transmitters and as the third and fourth arms a resistance proportioned by a movable contact and comprising the receiver, thermionic means included in a conjugate connection of the bridge and sensitive to bridge unbalance in either direction, and means actuated by the thermionic means to shift the receiver contact along the resistance until the bridge is balanced, said last mentioned means responding in rate of movement to the degree of bridge unbalance.

2,406,222

HEALTH CABINET

Bob Howard, West Los Angeles, Calif.

Application January 24, 1944, Serial No. 519,502
5 Claims. (Cl. 4—164)



1. In a device of the class described, the combination of a base member having spaced supporting sections for supporting the same within a tub with the bottom elevated from the bottom of the tub, side and rear sections, and a flexible downwardly inclined front closure means forming an enclosed cabinet, a seat mounted within the cabinet, means for maintaining a forced circulation of moist air within the cabinet, said latter means including a water pan, means for heating the water within the pan, means for directing air over the water in the pan, a fan for circulating the air within the cabinet, and a partition member mounted within the cabinet, said partition member having an opening therethrough through which the air circulated by the fan is drawn.

2,406,223

LIGHTING APPARATUS

Paul H. Irmischer, Chicago, Ill.

Application August 28, 1944, Serial No. 551,490
7 Claims. (Cl. 200—51)



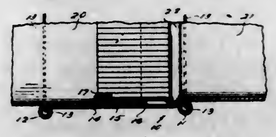
1. A mounting for a lamp of the fluorescent type comprising conductors having means for supporting the lamp, one of said conductors comprising sections having overlapping ends normally spaced from each other, and the other of the conductors comprising spaced sections adapted for connection with a source of electrical energy and one of said spaced sections including parts having overlapping ends normally in contact with each other, means for separating said normally contacting overlapping ends, and means for moving said normally spaced ends together.

2,406,224

CLIP OR FASTENER FOR STOVEPIPES AND THE LIKE

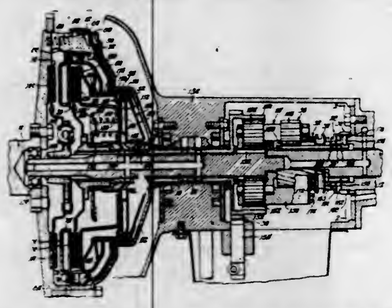
Arthur M. Jenkins, Oakland, Calif.

Application June 27, 1944, Serial No. 542,419
2 Claims. (Cl. 285—185)



1. A clip for firmly securing together the ends of two pipes of unequal diameter, comprising a plate having a tongue longitudinally in the middle thereof, and spaced above the body of said plate, the extremities of said plate, each constituting an eyelet, the end of the tongue forming a reversed lip providing a space between it and the body of the tongue, whereby with the pipes assembled the edge of the larger pipe fills said first space under the tongue and the edge of the smaller pipe fills the second space under said lip, and means encircling said pipes and engaging the respective eyelets holding said clip fast to the respective pipes, said spaces being radially off-set one to the other.

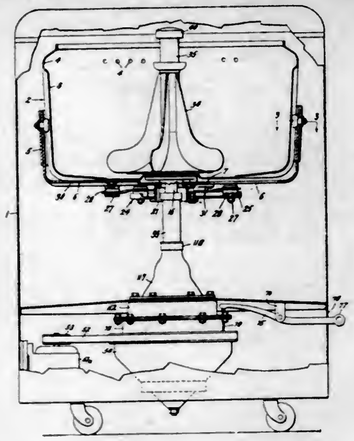
2,406,225
TRANSMISSION
Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 3, 1944, Serial No. 547,819
2 Claims. (Cl. 74—270)



1. In a transmission, the combination of a drive shaft, a driven shaft, a planetary gear set connected to drive said driven shaft and including a sun gear, a ring gear, a first planet gear in mesh with said sun gear, a second planet gear in mesh with said first planet gear and with said ring gear, a third planet gear integrally connected with one of said first two named planet gears, and a sun gear constituting a reaction gear and in mesh with said third planet gear, a clutch for connecting said drive shaft with said first named sun gear to provide a power train between said shafts at a certain speed ratio, a clutch for connecting said drive shaft with said ring gear to provide a power train between said shafts at another speed ratio, and means for braking said reaction gear to provide a reaction point for the gear set to complete both of said power trains, said braking means comprising a one-way roller brake the inner race of which is formed on a hub of said reaction sun gear and the outer race of which has external teeth, a non-rotatable pawl adapted to engage the teeth of said outer roller race to prevent rotation thereof and to thereby render the one-way brake effective, a brake drum connected to the hub of said reaction sun gear, and selectively operable friction means for stopping the rotation of said drum and for thereby braking the reaction sun gear in both directions of rotation.

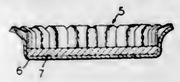
2,406,226
WASHING MACHINE
Arthur L. Kimball, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 8, 1942, Serial No. 450,131
6 Claims. (Cl. 210—71)

6. In a washing machine, driving mechanism comprising a rotatable frame, a driving shaft journaled in said frame, means for selectively holding the frame stationary or allowing it to be coupled to the driving shaft, a spinner basket, shaft means for connecting the frame to the spinner basket, flexible metal spring means having low internal friction connected at spaced points to said basket and said shaft means and extending radially from said shaft means, whereby the basket is supported for tilting and axial movement relative to said shaft means, a tub surrounding the spinner basket, a stationary member, means connected to said member including a sleeve in which the shaft means is journaled for supporting the shaft means, spinner basket and frame on said stationary member to permit gyratory movement relative to the tub,



and friction damping means between said last means and the stationary member for frictionally resisting the gyratory movement.

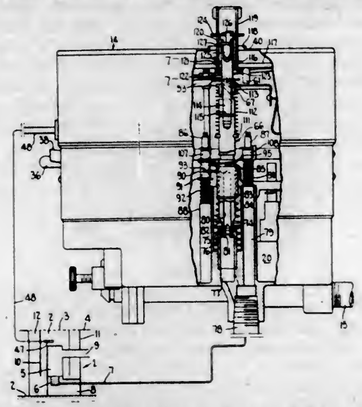
2,406,227
CONTAINER CLOSURE
Ellis Gray King, Pittsburgh, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application June 30, 1944, Serial No. 542,895
14 Claims. (Cl. 215—40)



1. A closure comprising a shell and a sealing element including a cured alkyd resin consisting of the cured condensation reaction product of from 36.5 to 219 grams of a saturated aliphatic dibasic acid containing 4 to 10 carbon atoms; one gram molecular weight of an unsaturated aliphatic dibasic acid containing from 4 to 5 carbon atoms and in which the two carbonyl groups are connected to two different carbon atoms and in which the carbon to carbon double bond is conjugated with at least one of the carbonyl double bonds; and dipropylene glycol in an amount sufficient to condense with said acids and form a resinous condensation product having an average molecular weight of at least 1,000.

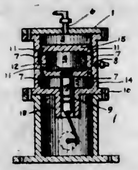
2,406,228
BURNER CONTROL MEANS
Walter S. Landon, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Original application September 4, 1942, Serial No. 457,310, now Patent No. 2,389,519, dated November 20, 1945. Divided and this application January 8, 1944, Serial No. 517,499.
8 Claims. (Cl. 137—21)

1. A control valve comprising a valve member having a stem, a sleeve rotatably and reciprocably fitting said stem, a spring urging said sleeve longitudinally of said stem, a pin projecting from said stem and engageable by said sleeve to hold said spring under compression, means engageable by said pin to limit opening movement of said valve member, means engageable with said sleeve to limit closing movement of said valve member, said sleeve having an end



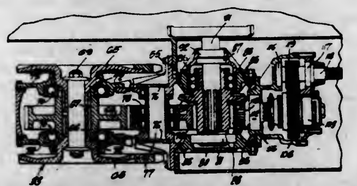
recess to receive said pin, and means to rotate said stem for movement of said pin into said recess so that said valve member can move beyond said limit of closing movement.

2,406,229
FLUID COMPRESSOR
William H. Leinweber, Chicago, Ill.
Application February 2, 1945, Serial No. 575,747
2 Claims. (Cl. 230—172)



1. A compressor comprising a body providing a piston chamber, a piston in said chamber and providing on opposite sides thereof, together with said body, compression chambers, said piston being of substantially hollow construction, means providing communication between the compression chamber on one side of the piston and the interior of said piston, means providing communication between the interior of said piston and the compression chamber on the other side of said piston, and means for charging a fluid to the interior of said piston chamber at a predetermined point in its movement within said cylinder.

2,406,230
TRACTOR SPROCKET DRIVE
James E. Lill, Los Angeles, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 4, 1944, Serial No. 552,684
5 Claims. (Cl. 180—9.1)



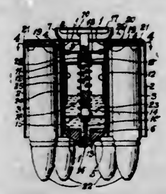
2. In a tractor type vehicle, the combination of: a double drive sprocket including spaced individual sprockets connected by a hub; a double idle sprocket comprising spaced individual sprockets connected by a hub; a flexible endless track trained about said double sprockets; bearing means for said hubs; a compression structure disposed between said drive sprocket and said idle sprocket and lying on opposite sides of the plane bisecting the space between said individual sprockets; means on said compression structure extending between said individual sprockets of each of said double sprockets and rigidly supporting the bearing means thereof on said compression structure; and means extending from said compression structure into the space between the bearings of said double drive sprocket for rotating the latter.

2,406,231
LOADER FOR REVOLVERS
Hèctor Consuegra Lima, Habana, Cuba
Original application December 18, 1943, Serial No. 514,801. Divided and this application October 9, 1944, Serial No. 557,781. In Cuba April 5, 1943
5 Claims. (Cl. 42—89)



1. A loader for revolvers, comprising a central hollow cylinder open at its upper end and closed at its lower end, a plurality of cartridge receiving cylinders each closed at its upper end and open at its lower end and disposed adjacent one to the other all around said central cylinder and secured thereto to form a rigid unit, each cartridge receiving cylinder having near its top a lateral notch opposite the central cylinder, a manual cartridge control member rotatably mounted within said central cylinder and frictionally engaging the wall of the latter, and projecting means radially arranged on the cartridge control member and adapted to enter the notches of said outer cylinders, said radially projecting means in one position of said control member being adapted to engage the flanges of cartridges in the cartridge receiving cylinders, and in another position of said control member will be withdrawn from said notches and will be adapted to release the cartridge flanges.

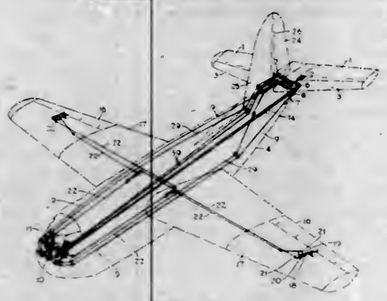
2,406,232
LOADER FOR REVOLVERS
Hèctor Consuegra Lima, Habana, Cuba
Application October 9, 1944, Serial No. 557,782
In Cuba October 22, 1943
2 Claims. (Cl. 42—89)



1. A loader for revolvers, comprising a hollow central cylinder having a side wall and closed at its top and at its bottom, a plurality of cartridge receiving cylinders each open at its lower end and arranged around said central cylinder and secured thereto to form a rigid unit, a cartridge control

member in the form of a manually operable stem slidably mounted within the central cylinder and provided with a lower reduced portion loosely passing through an opening in the bottom of the central cylinder, a pin fixed transversely to the side wall of the central cylinder within the latter and passing through a slot in the stem, an inner cylinder closed at its top and open at its bottom fixedly attached to the stem and frictionally engaging the inner wall of said central cylinder, a coil spring surrounding the stem between said transverse pin and the upper closed end of the inner cylinder, a transverse disc having a smaller diameter than the central cylinder fixedly secured to the stem above said inner cylinder, a series of pins pivotally connected to said disc and passing through registering openings formed in the adjacent side walls of the central cylinder and each cartridge receiving cylinder, said pins being adapted to normally hold the cartridges within the cartridge receiving cylinders in one position of said stem and being adapted to release the cartridges in another position of said stem, and finger operable means attached to the upper end of said stem for withdrawing the pins from the cartridge receiving cylinders to a position in which they are adapted to cause the release of cartridges placed in said cartridge receiving cylinders.

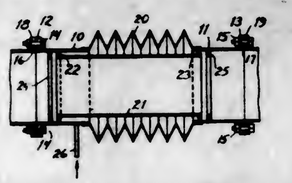
2,406,233
AIRPLANE CONTROL SURFACE LOCKING MEANS
Theodore G. Linnert, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 30, 1944, Serial No. 542,872
6 Claims. (Cl. 244—83)



1. Locking mechanism for airplane control surfaces comprising in combination, a control column for operating one control surface, a control shaft mounted on said control column for operating another control surface, lock means for the control surfaces, operating means for at least some of said locking means located near said control column, and interlocking means interacting between said column, control shaft, and lock operating means to interlock them when the control surfaces, control column, control shaft, locking means, and operating means are in locked position.

2,406,234
EXPANSION JOINT
Joseph V. Marancik, Roselle, and Roy F. Mildrum, Hillside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application May 18, 1943, Serial No. 487,448
2 Claims. (Cl. 285—90)

1. An expansion pipe joint comprising two aligned pipes for conveying fluid carrying injurious materials of the type of suspended solids and corrosive materials, a bellows section connecting the adjoining ends of the pipes to permit longitudinal, angular and misalignment movements of the pipes due to temperature variation, a longitudinal annular member protecting said bellows section permitting longitudinal, lateral and angular play of ends of



said pipes, an annular spacer near at least one end of said annular member reducing the clearance between said pipe and said annular member, and means for introducing a gas under slightly greater pressure than that of said fluid into the space between said bellows section and annular member so that said fluid is prevented from infiltration into corrugations of said bellows section.

2,406,235
PORCELAIN PIPE
Robert L. McCoy, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Application February 25, 1944, Serial No. 523,876
4 Claims. (Cl. 138—76)



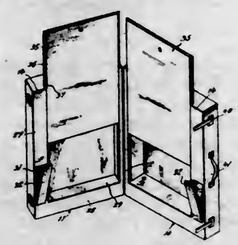
1. In a porcelain pipe having a glazed surface intermediate its ends, an outer roughened surface formed by projecting particles adjacent one extremity of said pipe, a yieldable metallic sleeve surrounding said roughened surface and having said projecting particles embedded therein, exterior serrations formed on said sleeve, and a fitting encircling said sleeve and having interior serrations interlockingly engaging said sleeve serrations; said fitting being adjustable longitudinally of said pipe.

2,406,236
VESSEL AND METHOD OF HANDLING SAME
Alexander M. McDougall, San Francisco, Calif.
Substitute for abandoned application Serial No. 498,546, August 13, 1943. This application August 21, 1944, Serial No. 550,380
4 Claims. (Cl. 114—72)



1. In a car-ferry vessel of the type described having a plurality of parallel decks including a tween deck, an adjustable section of said tween deck pivotally attached at its after end in a plane with the normally remaining portion thereof and lowerable to function as a part of a ramp to the deck below same, a fixed section of ramp upon said lower deck and cooperatively engageable with the movable end of said adjustable section, and a second adjustable section of said tween deck directly above said fixed section pivotally attached at its forward end in a plane with said remaining portion whereby to provide ample head-room for objects passing in either direction thereunder when raised and means connecting the free ends of said tween deck sections whereby to insure their operation in unison.

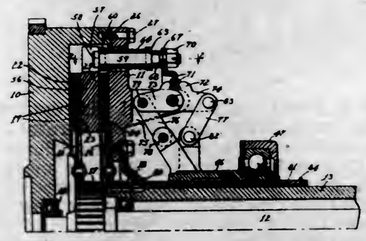
2,406,237
COMBINED CARRYING CASE AND TABLE
John Milkoff, New York, N. Y.
Application April 5, 1945, Serial No. 586,680
1 Claim. (Cl. 190—11)



A combined carrying case and table comprising two complemental, rectangular sections of the same general size and shape, the length of each section being substantially two times its width, hinge means along the adjacent upper marginal edges of the sections to permit the sections to be folded upwardly, causing their upper surfaces to meet in face-to-face engagement for carrying, means for maintaining the case in open and in closed relation, a carrying handle associated with the case, the lower wall of each section having two elongated recesses therein of lesser length than the width of such section, and a hinged leg of slightly lesser length than the length of the recess, mounted within each recess, one of such recesses extending from an outer corner portion laterally of the section, and the other of such recesses extending from the other outer corner portion longitudinally of the section, the upper wall of the section being provided with a narrow compartment extending from adjacent the inner end of the latter recess substantially the balance of the longitudinal edge of the section, the remaining area of the section providing a second compartment, and slidable closure members on the upper wall of each section for closing such compartments.

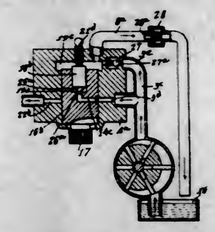
2,406,238
TWO-WAY CLUTCH
Kay Miller, Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Original application December 8, 1941, Serial No. 422,915. Divided and this application November 17, 1943, Serial No. 510,577
9 Claims. (Cl. 192—48)

1. In a friction clutch, the combination with a flywheel constituting the driving element and a back plate in fixed axially spaced relation to the flywheel and turning therewith, of two separate and independent clutch disks between the flywheel and back plate constituting the driven elements, a pressure plate between said disks turning with the flywheel and back plate and movable in either direction from a neutral position for driving engagement with either of said disks, means driven by each of said clutch disks, a single ring in concentric relation to said plates and guided for limited axial movement with respect to the pressure plate, a plurality of coiled



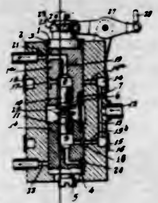
compression springs in circumferentially spaced relation to said ring and plate and compressed therebetween in preloaded condition and arranged to apply increased spring pressure to the plate upon axial movement of the ring relative to the plate to either clutch engaging position, and positive acting over-center means between the back plate and said ring to move the pressure plate in either direction relative to the back plate and further compress said springs so as to engage the clutch resiliently under increased spring pressure.

2,406,239
LIQUID METERING AND DISTRIBUTING APPARATUS
Henri Morgenroth, Los Angeles, Calif.
Application February 27, 1943, Serial No. 477,457
7 Claims. (Cl. 222—250)



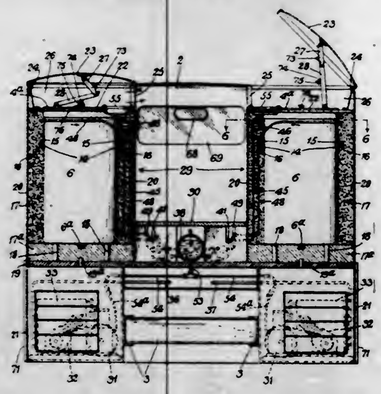
1. In a liquid fuel feeding apparatus, the combination of a relatively fixed casing having a bore therein, a rotor rotatably mounted in the bore, and having a metering chamber therein, a movable member associated with the metering chamber, movable to and fro to effect the filling and emptying of the same, said rotor and said casing having ports for admitting the liquid to the metering chamber to fill the same to its effective capacity, and for effecting the discharge of the fuel from the chamber thereafter, and means for regulating the effective capacity of the metering chamber, said ports for admitting the liquid to the metering chamber including a port located in the end wall of the chamber and having a valve seat formed around the same, the adjacent end of the movable member having a tip to come upon said seat to prevent leakage of the fuel under pressure through the port from the chamber when the movable member has moved to the limit of its movement toward said seat.

2,406,240
LIQUID METERING AND DISTRIBUTING APPARATUS
Henri Morgenroth, Los Angeles, Calif.
Application May 3, 1943, Serial No. 485,463
11 Claims. (Cl. 222—250)



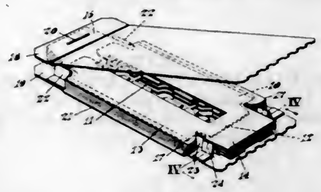
1. In a liquid metering and distributing device, the combination of a stator, a rotor rotatably mounted therein and having a plurality of metering chambers therein, movable means associated with the metering chambers, capable of moving in one direction during the filling movement of the metering chamber and in the other direction during its discharging movement, said stator and said rotor having ports cooperating as the rotor rotates, to admit the liquid under pressure to said metering chambers, to advance said movable means and fill the metering chambers to their effective capacity, means for effecting the return of the movable means, and means for adjustably controlling the effective capacity of the metering chambers said rotor being composed of two separate sections capable of relative axial movement, and said adjustable controlling means being constructed so that it can operate while the rotor is rotating to effect relative axial movement of the two sections of the rotor for altering the effective capacity of the metering chambers.

2,406,241
REFRIGERATED TRUCK
Willard L. Morrison, Lake Forest, Ill.
Application December 15, 1941, Serial No. 423,024
5 Claims. (Cl. 62—117)



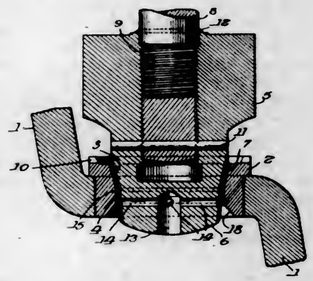
1. A refrigerated truck comprising a body formed of evaporators which act as containers into which the material to be cooled is received, said containers being formed into two sets separated by a non-refrigerated space in which individuals stand when inserting materials into or removing materials from said containers, and a heat interceptor located above each set of said containers and separated therefrom by a space, said space having a connection below said heat interceptors to the outside atmosphere through which air heated by the sun striking the heat interceptors escapes without heating the containers.

2,406,242
PROTECTED BLADE AND PACKAGE
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application April 6, 1944, Serial No. 529,752
3 Claims. (Cl. 206—46)



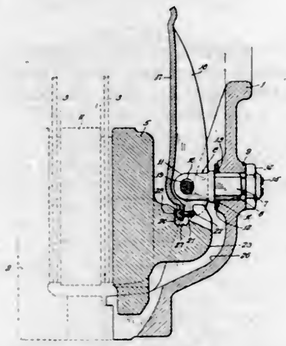
1. A safety razor blade centrally slotted and having shoulders defining unsharpened end portions in the blade, in combination with a protecting wrapper having elongate leaves folded transversely upon said shoulders at one end of the blade and slotted to expose the slot of the blade, the leaves of the wrapper being wrapped about the other end portion thus holding the blade against transverse displacement in its wrapper, and wings on the wrapper extending forwardly beyond the shoulders at either side of the wrapped end portion of the blade and thereby serving as guides to direct the body of the wrapper and prevent it from catching when pulled endwise out of a razor.

2,406,243
VALVE
Norman B. Newton and Richard Fennema, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application June 21, 1943, Serial No. 491,714
3 Claims. (Cl. 251—27)



1. In a plug type valve, a valve closure member of the throttling type, a removable seat therefor, combined annular and transverse passages constructed and arranged to permit communication with the inlet of the said valve for directing fluid from the inlet end of the closure member through said passages to an annular passage between the closure member and the said seat when the closure member is in the throttled position, said annular passage being sealed by the said closure member when same is in closed position, the said closure member having a frusto-conical throttling lip positioned within the seat opening whereby upon slight opening or throttling of the said closure member the flow between the throttling lip and the inner annular walls of the said seat passes over the apertures of the transverse passages.

2,406,244
FRICTION CLUTCH
Harold Nutt, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 24, 1943, Serial No. 488,163
7 Claims. (Cl. 192—99)

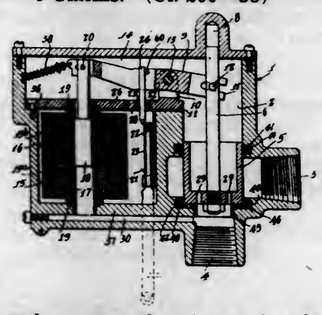


1. In combination with a pair of clutch members one having a recess, a fulcrum element carried by the other member free of the first member, said fulcrum element having a non-circular region and an eye, a lever having a pivot pin fulcrumed in said eye, and an end portion projecting into said recess, means on said lever snugly fitting said non-circular region to maintain said lever against displacement around said element, and a strut interposed between said end portion and one side of said recess, said strut maintaining said end portion in bearing relation with respect to the other side of said recess so as to eliminate any appreciable back-lash between said end portion and said recessed clutch member, said pivot pin being fitted in said eye with sufficient snugness transversely of the lever to eliminate any appreciable back-lash therein, whereby the necessity for a hold back spring is eliminated.

2,406,245
COATING FERROUS METALS WITH ALUMINUM
Kasimir Oganowski, Franklin, Noel W. Parks, Lemon Township, Butler County, and Kenneth G. Coburn, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
No Drawing. Application December 30, 1940, Serial No. 372,350
3 Claims. (Cl. 29—196.2)

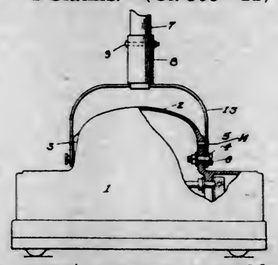
3. A hot dipped ferrous article coated with an aluminum alloy, the said coating comprising a thin layer located next the ferrous article and comprising a iron-silicon-aluminum-magnesium alloy, and a substantially thicker external layer of high aluminum content and containing also silicon from substantially 7.5 to substantially 9.5%, and magnesium from substantially 2.0 to 2.5%, the said ferrous article being characterized by ductility and high adherence of said coating.

2,406,246
VALVE
Hubert S. Ogden, Los Angeles, Calif.
Application March 27, 1944, Serial No. 528,237
9 Claims. (Cl. 200—53)



4. In a valve, a case forming a chamber, ports entering said chamber, a piston for closing said ports, a rocker arm connected at one end to said piston and connected at the other end to a plunger of a solenoid, said piston having ports to equalize the pressure on both sides, and a passage in said case to equalize the pressure on both sides of the plunger of said solenoid, an electrical switch positioned exterior of the chamber to indicate the position of said piston, a rod pivotally mounted in the sealing means of said case to actuate said switch, a pin on said rocker arm to move said rod, a pivot for said rocker arm comprising a shaft carrying a pin, a rod passing through said case to the exterior, a clevis on said rod to engage said pin when said rod is rotated to manually move said rocker arm, recesses in said case, resilient piston rings inserted in said recesses and adapted to seal said ports when said piston is in closed position, said piston rings having a groove in their outer faces.

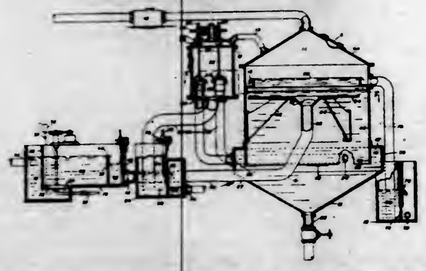
2,406,247
FLOOR CLEANING MACHINE
Ira June Owen, Laguna Beach, Calif., assignor to Julius H. Kiel and Robert B. Kiel, Wilmette, Ill.
Original application May 17, 1941, Serial No. 394,007. Divided and this application April 21, 1942, Serial No. 439,903
4 Claims. (Cl. 306—11)



1. In a carpet sweeper, a molded one-piece housing having substantially vertical sides and a curved top, said top being provided with a central raised dome provided on opposite sides thereof with reinforcing and mounting lugs, a pivotal mounting bolt in each of said lugs projecting outwardly therefrom to detachably receive the ends of a handle bail, a projecting detent disposed vertically above said mounting bolt in each of said lugs, and an operating handle having a strap-like bail straddling said dome, said bail having vertically aligned apertures in the end thereof for

cooperation with said mounting bolt and detent, the bail and its mounting being so constructed and arranged that the bail may pivot on the mounting bolt during operation of the machine and may be retained in a vertical position by the detents and bail apertures when the machine is not in use.

2,406,248
LIQUID SOLIDS SEPARATION APPARATUS
Edwin A. Packard, Yonkers, N. Y.
Substituted for abandoned application Serial No. 430,972, February 14, 1942. This application December 3, 1943, Serial No. 512,684
28 Claims. (Cl. 210—55)

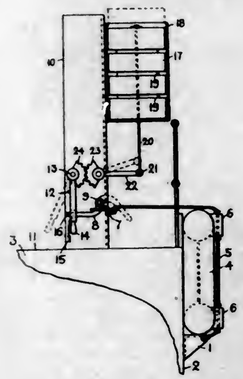


1. Apparatus comprising a closed tank adapted to hold an ever-changing body of liquid suspension being treated; an auxiliary chamber adapted to hold liquid with a space for a gas atmosphere overlying and contacting the liquid; effluent-outflow means including a dam having within said chamber an overflow edge lower than that of the uppermost interior portion of the tank and chamber whereby normally to determine the surface level of the body of liquid in the tank sufficiently low to provide therein space for a gas atmosphere overlying and contacting the liquid body; feeding means for delivering feed liquid submergedly to the liquid body and having a discharge terminal at an elevation lower than that of the overflow edge of said dam; means normally sealing said feeding means against leakage of outside air thereinto and thence into the tank; scum removal means for withdrawing scum floating on the body including an open top trough having an overpass edge at an elevation approximate that of the overflow elevation of said dam for receiving floating scum passing over said edge into the trough, scum transfer means for passing scum from the trough to a region outside of the tank and means for minimizing leakage of outside air into and through said scum transfer means; means for providing gas communicating passage area between the spaces for gas overlying the liquid in the tank and the liquid in the chamber; and means for sucking gas from at least one of said spaces for subjecting liquid underlying the gas within both spaces to sub-atmospheric pressure; said effluent-outflow means having its dam operatively disposed with respect to the chamber and including an intake section for receiving liquid passing thereinto from a region within the tank which is at elevation lower than that whereat feed liquid is submergedly delivered into the tank from the discharge terminal of the feeding means, a conduit leading from the intake section to the chamber whereby to realize a column of upflowing effluent which must pass as overflow from said dam, an effluent receiver for retaining a quantity of effluent as a sealing medium, and an overflowed-effluent conduit extending downwardly from a portion of the chamber at the delivery side of the dam and dipping in the sealing medium for providing a barometric leg.

2,406,249
SALVAGE FROM FISH VISCERA
Ivan A. Parfentjev, Nanuet, N. Y.
No Drawing. Application November 25, 1943, Serial No. 511,704
16 Claims. (Cl. 99—11)

1. The process which comprises preparing an aqueous suspension of comminuted fish viscera at about pH 1.5, adding a small amount of pepsin to the suspension, maintaining the suspension at temperatures between about 70°–100° F. until the oil separates and floats to the surface, removing the acid liquid from the solid residue and separately recovering the oil and a vitamin B-containing aqueous solution from the acid liquid.

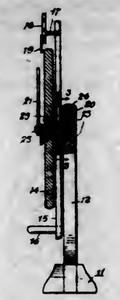
2,406,250
LIFE RAFT RELEASE
Justin D. Petouhoff, New York, N. Y.
Application April 24, 1943, Serial No. 484,452
2 Claims. (Cl. 9—33)



1. Life raft release comprising means to releasably support a life raft at the side of a ship; a cord attached at the outer end to the raft supporting means and engaging the raft, the inner end of the cord extending onto the upper deck of the ship; a plate with a hole at the inner end of the cord; a hook pivotally supported at its upper end on the deck, the middle portion of the hook being engaged by the plate, the lower portion of the hook extending substantially horizontally away from the raft; a lever rotatively supported at the upper end on the deck, the lower end of the lever slidably engaging the end of the hook thereby retaining the hook in its horizontal operative position, the upper end of the lever having a gear sector; a handle on the lever for its manual operation; a second lever pivotally supported at the middle, one end of the second lever having a gear sector engaging the gear sector of the first lever; and a float connected to the free end of the second lever for rotating the second lever thereby rotating the first lever and releasing the hook and the raft supporting cord.

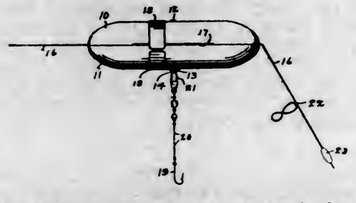
2,406,251
TOY CLOCK
Frank Porcelli, Bego Park, N. Y.
Application February 21, 1945, Serial No. 579,101
4 Claims. (Cl. 46—175)

1. A toy clock including a clock face and a support therefor, said clock face being affixed to said support by means of a plurality of spaced pins set in a circle, a spinner rotatably mounted on said pins, a finger on said spinner yieldably engaging said pins, a handle at one end of said



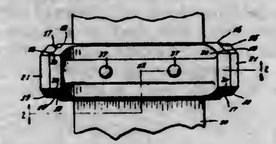
spinner and an indicator at the other end pointing to the clock face.

2,406,252
FISHING DEVICE
Joseph L. Potter, Indianapolis, Ind.
Application November 23, 1944, Serial No. 564,769
8 Claims. (Cl. 43—49)



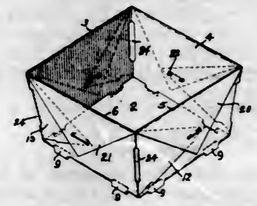
1. For fishing purposes, a device to be used in conjunction with a leader or a line comprising a two part body; means shiftably securing said two parts one to the other; one of said parts having a groove thereacross to receive slidingly therein said line; and said other part being normally positioned across the groove to retain the line therein; said securing means consisting of a post around which one of said parts may rotate in respect to the other; one of said parts being recessed from one edge on its side opposite the other part, said recess extending across the side to said groove, said post being on the side of said groove opposite to that of said recess.

2,406,253
FRICTION-TIPPED BELT BLOCK
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application October 1, 1943, Serial No. 504,541
2 Claims. (Cl. 74—236)



1. For use with a transversely-flexible belt body, a stiffener block comprising a rigid main body formed with a socket adapted to receive a portion of said belt body, said socket being defined by opposite end walls spaced from each other a distance greater than the transverse dimension of the belt with which said block is to be used, a substantially continuous base wall joining said end walls, and a pair of walls extending, respectively, from said end walls toward each other in substantial parallelism with said base wall, said last-named walls terminating at point spaced from each other a distance slightly less than said belt dimension, a closure for said socket receivable between the termini of said last-named walls for retaining said belt body portion in said socket, and means for securing said closure in place in said socket in clamping engagement with the said belt body portion.

2,406,254
BERRY BOX OR THE LIKE
William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio
Application March 3, 1944, Serial No. 524,889
12 Claims. (Cl. 229—24)

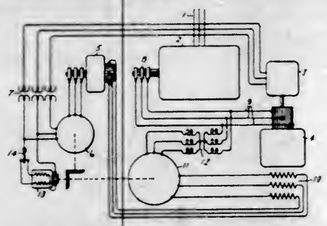


1. A square blank for a berry box or like article provided with cut and score lines defining a square main panel canted with respect to any side edge of the blank, side wall panels articulated to the side edges of the said bottom panel, said side wall panels having a depth from top to bottom not greater than the depth of the said bottom panel, side flaps of substantially triangular shape and of a size to fill the space in the blank between side edges of adjacent side wall panels, each of said side flaps being articulated at one edge to a side wall panel and being free of the adjacent side wall panel at another edge, and end flaps of triangular shape articulated to the outer ends of said side wall panels, said triangular side flaps having a height from their articulated bases to their apices greater than half the width of said side wall panels, and said end flaps having a height from their articulated bases to their apices greater than half the depth of said side wall panels, so that when a triangular side flap is lapped over an adjacent side wall panel in an erected structure made from the said blank, the outer end of said triangular side flap will occupy a position such that it can be lapped by the outer end of an end flap articulated to the said lapped side wall and folded over outwardly thereagainst, so that common fastening means may simultaneously engage said end flap, said side flap and the said lapped wall.

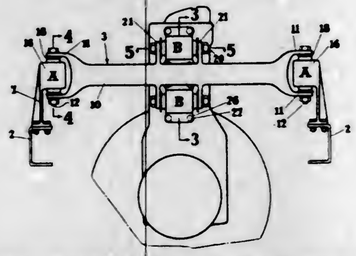
2,406,255
INDUCTION MOTOR CONTROL SYSTEM
Percy W. Robinson, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 24, 1945, Serial No. 584,559
5 Claims. (Cl. 172—274)

1. A speed control system for induction motors comprising in combination with a source of supply, a wound secondary induction motor supplied therefrom, a commutator regulating machine concatenated with the secondary winding of the induction motor, said commutator machine having an exciting field winding, a transformer and

an induction regulator connected in series relation between the secondary of said induction machine and said field winding for supplying speed control excitation, an induction regulator and an ohmic drop exciter connected in series relation between said source of supply and said field winding for supplying ohmic drop excitation, said induction regulators being of a type which vary their voltage transformation ratio at a substantially fixed phase angle, and means for simultaneously adjusting the ratio of said induction regulators for controlling the speed of said induction motor.



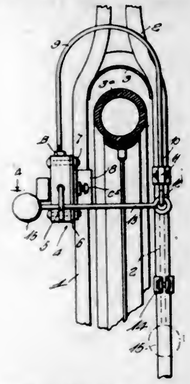
2,406,256
MOUNTING
Paul C. Roche, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application March 20, 1944, Serial No. 527,289
8 Claims. (Cl. 248—9)



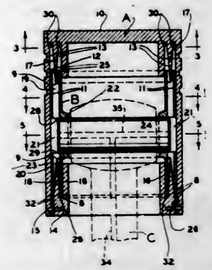
7. The combination with a structure subjected to torsional vibrations and to translational vibrations in two directions substantially perpendicular to each other, and a support, of an intermediate frame, mountings connecting the frame to the structure and the frame to the support, each comprising a body of resilient material such as rubber between attaching surfaces normal to a radius through the axis of torque vibration, the attaching surfaces for the structure being normal to one direction of translational vibration and the attaching surfaces for the support being normal to the other direction of translational vibration.

2,406,257
PERMANENT SAFETY LOCK DEVICE FOR BICYCLES AND THE LIKE
Albert R. Romero, Tucson, Ariz.
Application December 20, 1944, Serial No. 569,000
1 Claim. (Cl. 70—227)

A lock construction for locking a wheel of a bicycle relative to a fork-like frame in which the wheel is mounted, comprising means for attaching the lock to the frame comprising a length of material doubled on itself to form a loop, means for attaching the material on one side of the loop to the lock, the length of material on the opposite side of the loop being shaped to embrace one leg of the frame and having an angularly disposed end coacting with the lock and having means for receiving a hasp of the lock when in locking position whereby the removal of the lock is prevented, a yoke attached to the lock and having a part projecting downwardly along the other leg of the frame, means for attaching the part to the other leg of the frame, a joint on the end of said leg, a link having a joint member coacting with the first mentioned joint, said link being adapted to assume an approximately horizontal position through a space between spokes of the wheel and to be lodged in the hasp of the lock, and a spring clip attached to a permanent part of the bicycle for engaging the link and holding it inoperative.

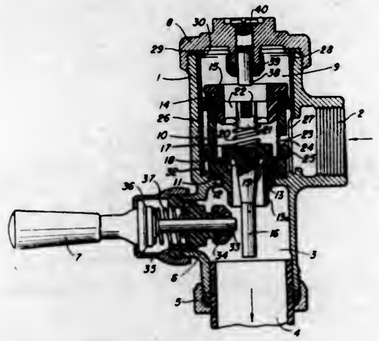


2,406,258
PISTON
William A. Roth, St. Paul, Minn.
Application October 9, 1944, Serial No. 557,813
5 Claims. (Cl. 123—78)



1. A piston for internal combustion engines, comprising a cylindrical sleeve carried by the wrist-pin and the connecting rod, a piston surrounding said sleeve and floatingly supported thereon, a depending skirt having a tapered formation providing a thin outer edge and an enlarged base portion formed integral with the head of the piston and adapted to extend into a cylindrical annular passageway formed in said sleeve, a ring member anchored in the skirt of said piston and having a similarly formed tapered skirt adapted to extend into the opposite end of the annular passageway formed in the sleeve carried by the wrist-pin, whereby a tapered skirt extends into either end of said sleeve supported by the wrist-pin which is adapted to act as tapered plunger means within the annular cylindrical passageways formed in said sleeve to gradually cushion the operation of said piston and sleeve when reciprocating in operation, when oil is introduced into said annular cylindrical passageway formed in the ends of said sleeve which floatingly supports said piston.

2,406,259
FLUSH VALVE
Irving H. Russell, Oak Park, and Frederick C. Binnall, River Forest, Ill., assignors to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application May 10, 1943, Serial No. 486,280
2 Claims. (Cl. 137—93)



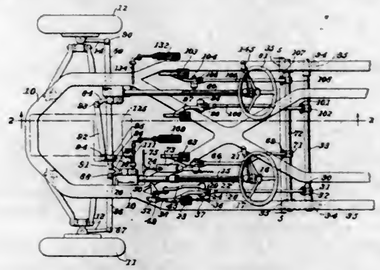
1. The combination of a cylindrical lining member and a flush valve body in which said lining member is inserted, said flush valve having an inlet opening therein, said lining member comprising a body portion subject to warping and having a slotted opening at one end thereof arranged for alignment with the inlet opening of the flush valve, and means at the other end of said lining member for maintaining said openings in alignment, said lining member having slightly tapered walls to facilitate insertion in said flush valve, and cooperating means on the flush valve and lining member for preventing warping of one of the ends of said lining member.

2,406,260
POLYSULPHIDE POLYMER
Laurence L. Ryden, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 3, 1943, Serial No. 512,774
13 Claims. (Cl. 260—78)

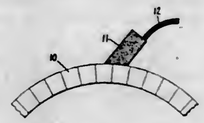
1. A method for the preparation of cold-flow resistant rubber-like organic polysulphide polymers, which includes the steps of condensing a molecular excess of an alkaline polysulphide with a mixture of (1) from 1 to 20 mole per cent of a halohydrin comprising two halogen atoms and at least one hydroxyl all attached to aliphatic carbon atoms in (2) a polyhalo-aliphatic compound containing at least one —CH_2 radical to form an elastomer product, and thereafter compounding such product with one of the group consisting of alkenedioic acids and anhydrides in the amount of from about 5 to about 40 per cent by weight of the halohydrin employed.

2,406,261
DUAL CONTROL OPERATING MECHANISM FOR MOTOR VEHICLES
Robert B. Sprinkel, Washington, D. C.
Application October 30, 1944, Serial No. 561,077
2 Claims. (Cl. 180—77)

2. In combination with a motor vehicle, dual control means for operating and steering the vehicle, said means including primary braking, clutching, steering, and gas controlling mechanisms on the driver's side of the vehicle, and auxiliary braking, clutching, steering and gas controlling mechanisms on the auxiliary driver side of the vehicle, said primary and auxiliary mechanisms each including a clutch pedal, a brake pedal, a steering wheel and steering wheel linkage, and an accelerator pedal, a transverse rocker shaft connected to the sides of the vehicle, means operatively connecting the brake pedals to said shaft to effect movement of the brake mechanism upon the operation of any one of the brake pedals, a second transverse rocker shaft connected to the sides of the vehicle, means operatively connecting the clutching pedals to the second rocker shaft to actuate the clutch mechanism when any one of the clutch pedals is operated, means operatively connecting each of the accelerator pedals to the gas controlling mechanism to effect operation of the accelerator mechanism when any one of the accelerator pedals is operated, and means independently connecting the primary and auxiliary steering wheels to said steering wheel linkage, the parts being constructed and arranged so that when the vehicle is being operated by either one of the drivers, the control of the vehicle to brake, to clutch, to guide, and to control the flow of gas to the engine, can be taken over at any time by the other driver.



2,406,262
CURRENT COLLECTOR
Lynn H. Stauffer, Pattersonville, N. Y., assignor to General Electric Company, a corporation of New York
Application October 8, 1943, Serial No. 505,447
6 Claims. (Cl. 171—320)

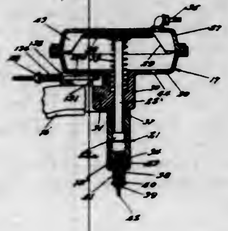


1. A current collector member adapted to be contacted by a brush and for a dynamoelectric machine formed of a copper base alloy including from 60% to 85% copper and 40% to 15% zinc.

2,406,263
AUTOMATIC CONTAINER FILLING DEVICE
Theodore A. St. Clair, Carl F. Sievers, and Andrew R. Olson, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application December 5, 1944, Serial No. 566,672
7 Claims. (Cl. 226—20.6)

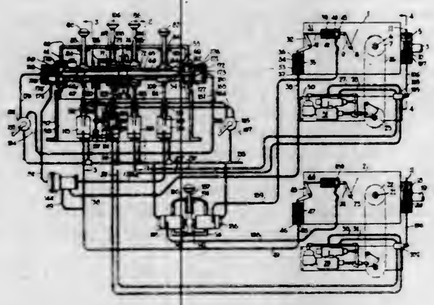
1. A device as described comprising a sleeve having a seating member, a valved passage in

said sleeve and seating member, an actuator for said sleeve having a push rod slidably connected



to said sleeve, and a spring for normally holding said rod in retracted position.

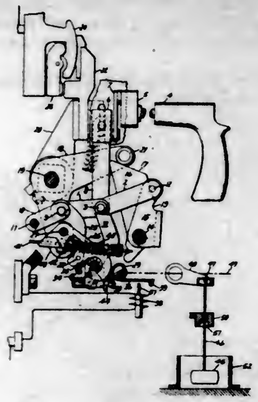
2,406,264
CONTROL APPARATUS
Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 22, 1943, Serial No. 488,042
5 Claims. (Cl. 60—97)



2. In combination, a plurality of fluid pressure adjustable devices, individual fluid pressure control means for each of said devices operable to provide fluid under pressure for adjusting the respective device, selector means having one position for rendering each of said devices adjustable by fluid pressure provided by the respective control means and having a second position for rendering all of said devices adjustable by fluid pressure provided by one of said control means, and means operable to selectively position said selector means.

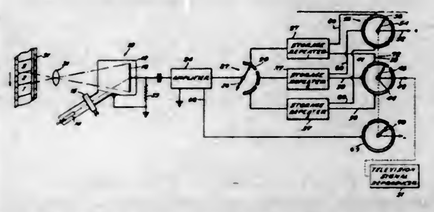
2,406,265
SHOCKPROOFING MECHANISM
Gerald H. Syrovy, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York
Application May 25, 1944, Serial No. 537,338
9 Claims. (Cl. 175—336)

4. An electromagnet comprising an armature and means for preventing the release of said armature from the attracted position in consequence of shock comprising a weight, a resiliently pendulous support for said weight deflectable in any direction and arranged to partake of the movement of said armature, and means dependent on the deflection of said support in any direction in consequence of shock or the like for preventing movement of said weight in a direc-



tion to allow movement of said armature from said one position.

2,406,266
SLOW-MOTION ELECTRICAL PICTURE REPRODUCTION
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 1, 1943, Serial No. 508,566
10 Claims. (Cl. 178—6.8)



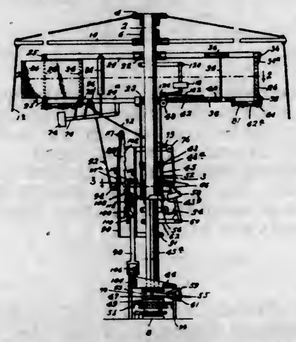
4. In a system for reproducing images electrically, means for generating a series of image signals in accordance with an optical image appearing in a field of view and at a predetermined rate, means for storing said image signals sequentially, means for discharging signals representative of said stored signals said discharge occurring at the same rate as the storage of said signals, and means for the increasingly delayed initiation of the discharge at the original storage rate of the said storage signals.

2,406,267
ACCOUNTS PAYABLE SYSTEM
Elmer A. Tambert, Sierra Madre, Calif.
Application April 19, 1944, Serial No. 531,745
2 Claims. (Cl. 282—22)



2. In an accounts payable system comprising a plurality of sheets attached together and having transfer material therebetween, each of said sheets containing a blank bank check portion and a blank portion having suitably indexed columns for the entry of invoice amounts and deductions to be covered by said bank check when completed, each of said sheets having a blank portion suitably indexed for the entry of invoice distribution, identification and amounts, the latter portion of one of said sheets being separable from the remainder of the sheets, and an upper blank bank check in registry with the blank bank check portions of the other sheets when separated from the other of said sheets by transfer material.

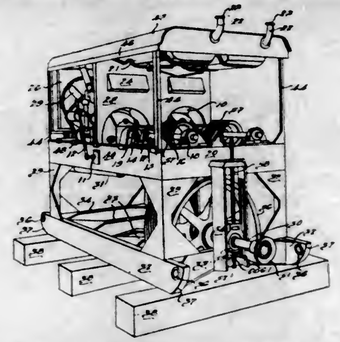
2,406,268
WINDMILL
Cornelius F. Terhune, Kansas City, Mo.
Application August 13, 1943, Serial No. 498,553
10 Claims. (Cl. 170—26)



1. In a windmill, a vertical rotatable shaft, a mill wheel fixed upon said shaft and including a plurality of freely mounted vanes, stops mounted on said mill wheel for automatic engagement with the respective vanes, means associated with the shaft and the mill wheel for withdrawing the stops from engagement with the vanes, a weight associated with the shaft and adapted to be swung outwardly to active position by centrifugal force or moved inwardly and upwardly to inactive position, means connecting said weight to the means for withdrawing the stops, a lever swingably mounted on the mill wheel for inward and outward movement, a cable connecting the weight and the lever whereby when the latter moves inward it moves the former inward and upward to inactive position, means for moving the lever outwardly comprising a ratchet-bar, flexible means connecting the lever to said ratchet-bar, and means associated with the shaft for actuating said ratchet-bar.

2,406,269
POWER UNIT
Ray F. Thornton, Dearborn, Mich.
Application October 6, 1944, Serial No. 557,511
4 Claims. (Cl. 74—16)

1. A power unit including a plurality of separate internal combustion engines interconnected for unitary operation to supply power to a single power take-off shaft and having a rigid frame including a base frame and a vertically spaced motor supporting frame secured to said base frame, and including spaced substantially parallel side frames interconnected by a plurality of cross-frame members, a drive shaft connected with each engine and journaled in a pair of spaced vertically adjustable bearings, slidably mounted in a pair of spaced slide members secured between vertically spaced cross-frame members of said base frame and said motor supporting frame, means associated with said slide



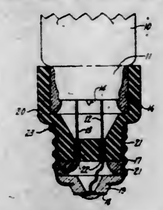
members for adjustably moving said bearings in said slide members, a power take-off shaft and means connecting said drive shafts in driving relation to said power take-off shaft.

2,406,270
VIBRATION DAMPENING SPLICE
Leland C. Torell and William E. White, Bethlehem, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application August 17, 1944, Serial No. 549,936
9 Claims. (Cl. 57—142)



1. A vibration dampening cable splice comprising two multiple-strand cables, one of said cables having strands of different lengths providing an end portion of varying thickness, and means comprising a tie wire binding said end portion of said cable to the other cable.

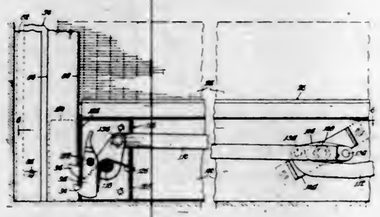
2,406,271
BASE FOR ELECTRIC LAMPS OR SIMILAR DEVICES
Irving H. Van Horn, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application January 30, 1942, Serial No. 428,863
15 Claims. (Cl. 176—32)



15. An electric lamp comprising a bulb having a sealed neck, a filament within the bulb having leads extending through the end of said neck, resilient shock-absorbing material disposed about and firmly secured to the lower end of said neck, the base member having a generally cylindrical body portion formed with a screw-threaded periphery, the inner end of said body portion being disposed about and firmly secured to said shock-absorbing material and the outer end carrying a contact insulated from the body of said base, means electrically connecting said

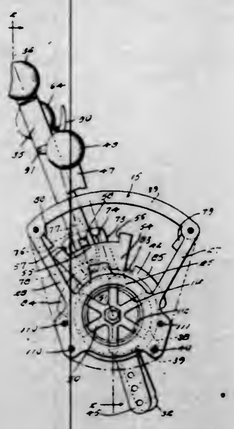
leads with said portion and contact member, said end of the neck of the bulb and said inner end of the base being separated longitudinally of the lamp by an intervening space and said material bridging said space.

2,406,272
ROLL SCREEN ASSEMBLY
Harold E. Van Voorhees, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 5, 1942, Serial No. 467,923
19 Claims. (Cl. 160—281)



6. In combination with screen cloth wound upon an automatic winding roller and having ribbon-like weft strands and having warp strands which are inherently elastic to permit longitudinal elongation for tensioning an unwound length of the cloth, means maintaining one end region of said screen cloth against longitudinal movement in an unwinding direction when a predetermined length is withdrawn, and means at the other end of said screen cloth operable to stretch the withdrawn length of screen cloth thereby tensioning the latter.

2,406,273
THROTTLE CONTROL
Philip M. Waite, Corry, Pa.
Continuation of application Serial No. 424,080, December 22, 1941. This application July 26, 1944, Serial No. 546,643
15 Claims. (Cl. 74—471)



1. An engine control comprising a frame, a main lever pivotally carried by said frame, a second lever pivotally carried by said frame, a lever accelerating means carried by said main lever, means fixed relative to said frame engageable with said accelerating means for effecting operation of said accelerating means upon movement of said main lever, and means fixed relative to said second lever engageable with said accelerating means for effecting accelerated movement of said second lever upon operation of said accelerating means by said second means.

2,406,274
HEEL FOR BOOTS AND SHOES
Francis Ward, Rushden, England
Application February 20, 1945, Serial No. 578,841
In Great Britain February 3, 1944
7 Claims. (Cl. 36—35)

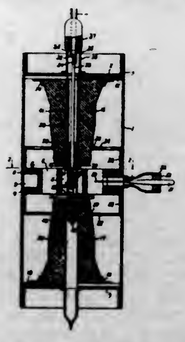


1. In combination, a solid heel the outer end of which is formed with a rabbeted edge, a member shaped so as to fit within the said rabbeted edge and surround the heel, and a top piece secured to the outer end of the heel by elements driven into the latter, the aforesaid member serving to prevent the heel from splitting when the elements are driven in.

2,406,275
ELECTRICAL RESISTANCE ELEMENT
Axel Richard Wejnarth, Stockholm, Sweden
No Drawing. Application June 5, 1945, Serial No. 597,711. In Sweden April 7, 1942
4 Claims. (Cl. 201—76)

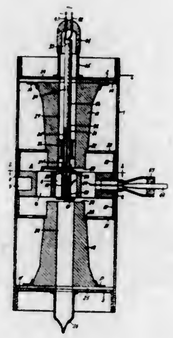
1. Electrical resistance element durable at high temperature and proof against chemical action, consisting of a sintered mass, containing as main component silicon carbide and moreover, in smaller quantity, at least one compound belonging to the group of aluminium carbide, aluminium nitride, aluminium silicide and aluminium boride.

2,406,276
ELECTRIC DISCHARGE DEVICE
George M. White, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1942, Serial No. 465,401
8 Claims. (Cl. 250—27.5)



1. An electric discharge device comprising a plurality of enclosed co-operating electrodes including an anode structure having a centrally located opening therein and a cathode, a pair of magnetic pole pieces positioned on opposite sides of said anode structure and each including a channel lying longitudinally of the pole piece and being alined with respect to each other and with respect to said opening, a pair of insulating means each positioned in one of said channels and each having a portion engaging the walls of the channel at a region spaced from the pole face and a second portion extending from the channel beyond the pole face, said last mentioned portion having a smaller cross section than the channel, and means extending through said insulating means supporting and centering said cathode.

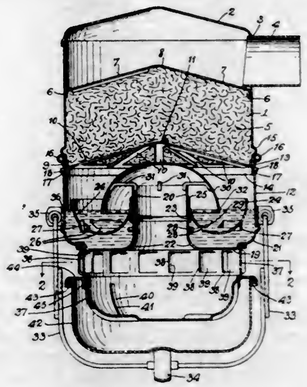
2,406,277
HIGH-FREQUENCY ELECTRIC DISCHARGE DEVICE
Ralph J. Bondley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1942, Serial No. 465,424
15 Claims. (Cl. 250—27.5)



1. An electric discharge device comprising a plurality of cooperating enclosed electrodes including a thermionic cathode having a heating element and an anode structure surrounding said cathode, means for establishing a magnetic field comprising a magnetic pole piece substantially perpendicular to the plane of said anode structure, said magnetic pole piece having a channel extending longitudinally therethrough, a rigid concentric cable structure supporting said cathode and for supplying current to said heating element and comprising an inner conductor and a tubular metallic outer conductor and including a plurality of spaced insulating means therebetween, and an insulator displaced from the end of said channel facing said anode structure and supporting said cathode structure.

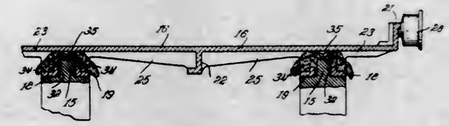
2,406,278
CLEANER
Thomas C. Worth, Market Harborough, England
Application July 12, 1943, Serial No. 494,295
2 Claims. (Cl. 183—8)

1. In an air cleaner built up from vertically aligned nested cups, a bottom cup adapted to receive dust, a dry cleaner cup closing the top of the bottom cup and including a bottom portion extending into the bottom cup and having dust discharge apertures associated with dust directing vanes therein and a side portion extending above the bottom cup and having air inlet apertures, a liquid containing cup closing the top of the dry cleaner cup and having an axial air discharge duct extending upwardly above the level of the liquid in said cup and adapted to serve as an air discharge outlet for the air entering the dry cleaner cup, an arcuate mushroom baffle overlying the upper end of said axial duct, adapted to direct air downwardly toward the liquid in said liquid containing cup, an upwardly



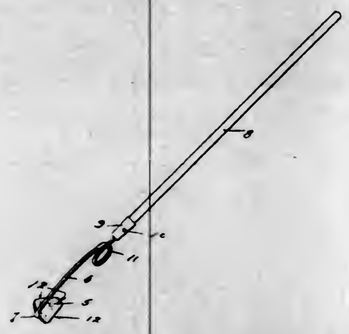
convex circumferential baffle provided, at its bottom, with baffled openings and aligned with the path of flow of air from said mushroom baffle, extending below the liquid level in said liquid containing cup and having an outer discharge edge spaced radially outwardly from the outer edge of the mushroom baffle, and a container positioned above and closing the top of the liquid containing cup, having a cleaned air discharge duct extending therefrom and having an air pervious filter mass therein in the line of delivery of air from said liquid containing cup.

2,406,279
BELT CONVEYER
Edmund C. Anderson, Homewood, Ill., assignor to Kensington Steel Company, Chicago, Ill., a corporation of Illinois
Application May 28, 1945, Serial No. 596,230
8 Claims. (Cl. 198—230)



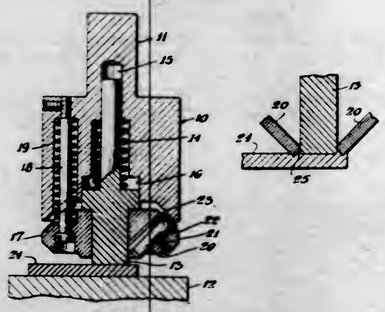
1. An endless conveyer comprising in combination a series of links in the form of plates pivotally connected together in mutually overlapping relationship so as to form an effective seal completely about the conveyer, sprockets about which said connected link plates extend, and means carried by the plates adapted by movement toward the sprockets upon operation of the conveyer to apply pressure for breaking up masses of foreign matter accumulated on the inner faces of the plates and to move said material laterally under pressure away from said sprockets.

2,406,280
HOE
Herman J. Beneke, Faribault, Minn.
Application August 13, 1942, Serial No. 454,738
1 Claim. (Cl. 97—71.1)



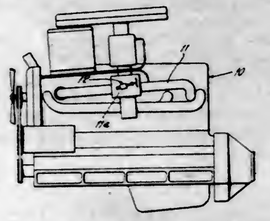
A hand hoe comprising a blade having a transverse bottom cutting edge and side cutting edges that diverge upwardly from the ends of the bottom cutting edge, a handle, and a shank connecting the central portion of the blade to the handle, said shank being bent to form a vertically disposed coiled spring, said spring permitting relative movement of the end portions of the shank in a vertical plane when the bottom cutting edge of the blade is being used, the central mounting of said spring also permitting lateral angular movement of the outer end portion of the shank relative to the inner end portion thereof when either one of the side cutting edges of the blade is being used.

2,406,281
CONTACT LOCATING METHOD
Harry Dahl, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application January 30, 1942, Serial No. 428,830
3 Claims. (Cl. 29—155.55)



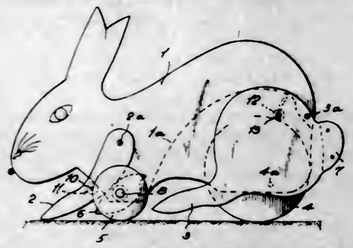
1. The method of preparing a contact mounting blank which comprises clamping a selected plane surface area of said blank with the plane end of a holding punch in simulation of a contact and then forging up a series of locating ears from the material of said blank against the edge of said hold-down punch while substantially maintaining said clamped plane surface area of said blank, and then coining said selected area of said blank with said holding punch to flatten out any irregularities produced in said selected area by the foregoing operation.

2,406,282
AUTOMATIC MIXTURE REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES
Raymond de Filippis, New York, N. Y.
Application August 1, 1942, Serial No. 453,296
4 Claims. (Cl. 123—124)



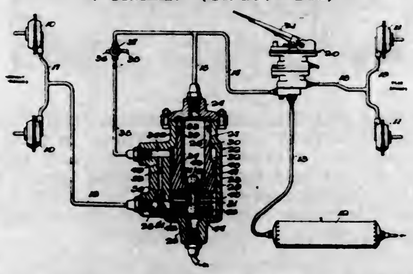
1. A device constructed for connection to the intake manifold of an internal combustion engine in confronting relation to the cooling fan thereof, which device comprises a casing, a piston valve slidable and rotatable therein, the casing having means for connection thereof to the intake manifold and having openings communicating with the intake manifold and with the atmosphere, said openings being controlled by the slidable valve and being of such size as to be adapted to admit a regulated supply of air into the manifold to rectify the proportions of fuel and air as the engine speed increases, and a propeller-like element exposed to the atmosphere and adapted to be responsive to the blast of air from the engine fan to cause rotation of the propeller and to produce a force axial thereof tending to open the valve, the latter being axially directly fixedly connected to the propeller so as to be caused to spin while the valve and propeller move axially as a unit in opening and closing the valve, and said means being adapted to mount the casing at an acute angle to the horizontal to cause the valve and propeller unit to gravitationally slide to a position in which the valve closes said openings, said valve being so related to the casing and said openings as to be responsive to the manifold suction tending to close the valve, in opposition to the axial force of the propeller.

2,406,283
MECHANICAL TOY
Irvin W. Fishel, Clemmons, N. C.
Application June 26, 1945, Serial No. 601,661
2 Claims. (Cl. 46—104)



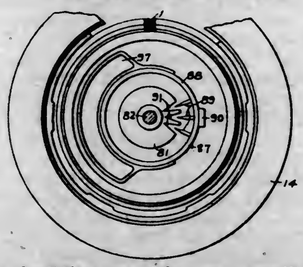
1. In an animal type of toy, a body, forelegs pivotally mounted on said body, rear legs pivotally mounted on said body, wheels connected to said body to insure an upright position, a wheel eccentrically mounted adjacent the rear legs whereby rotation provides the rear part of said body and said rear legs with recurrent up and down movement as the toy is moved progressively forward and the forward end of said legs are moved up and down to a greater degree than the rear portion thereof, and means between said first mentioned wheels and movable with said body and pivotally mounted with respect thereto for moving said forelegs and adapted to be engaged by said rear legs to actuate said forelegs.

2,406,284
BRAKE MECHANISM
Ellery R. Fitch, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application March 26, 1941, Serial No. 385,355
7 Claims. (Cl. 137—144)



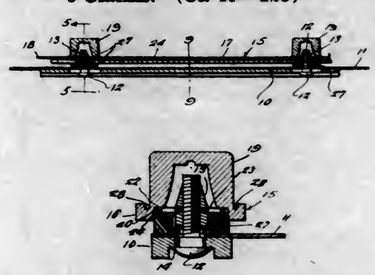
1. A reducing valve provided with a casing having a movable element therein dividing the casing into inlet and outlet chambers, a port in said movable element for connecting said inlet and outlet chambers, an exhaust port in the outlet chamber, and a valve member carried by said element having intake and exhaust valve portions and normally positioned to close said connecting port, said valve operating element having one area subjected to the pressure in the inlet chamber and a relatively larger area subjected to the pressure in the outlet chamber, whereby an initial application of the pressure to the inlet chamber will actuate the element to close the exhaust port and open the connecting port and whereby the element will be operative to actuate the valves to maintain both ports closed when the pressures in said inlet and outlet chambers are substantially inversely proportional to said first and second areas.

2,406,285
FABRIC TAKE-UP
Oscar Fregeolle, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Original application October 18, 1944, Serial No. 559,136. Divided and this application September 12, 1945, Serial No. 615,809
7 Claims. (Cl. 66—150)



1. In a knitting machine, an auxiliary fabric take-up consisting of a vertically movable ring provided on one side with inwardly and downwardly extending needle-like points adapted to engage knitted fabric and a vertically movable fabric spreader adapted to pass through said ring, said spreader being provided with slots to permit passage past said points.

2,406,286
AUTOMOBILE LICENSE PLATE
Frank J. Gantnier, Binghamton, N. Y., assignor of one-half to Robert F. Gantnier, Binghamton, N. Y.
Application November 3, 1944, Serial No. 561,724
6 Claims. (Cl. 40—125)



1. In a structural assemblage of the class described, in combination, a relatively stationary supporting bracket, a license plate of a conventional type, bolts passing through apertures in the bracket and plate, said bolts having long shanks extending outwardly, and clamping and attachment accommodation nuts on the shanks of said bolts, said nuts being provided with marginal endless grooves serving as keyways to accommodate special attachment-retaining keys, and an attachment adapted to be mounted on the license plate within the marginal borders thereof, said attachment being provided with expansible and contractible retaining keys having portions to fit into the keyways in said nuts.

2,406,287
METHOD OF APPLYING GLUE
Hugh Matthew Grimshaw, Glen Ridge, N. J., assignor to Publication Corporation, New York, N. Y., a corporation of New York
Application September 14, 1944, Serial No. 554,116
1 Claim. (Cl. 117—15)

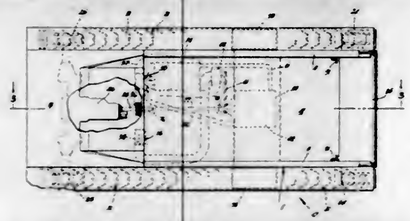


A method of preparing a substantially non-curling web having an area coated with glue and a printed area free from glue comprising moving a web continuously past a printing station and a gluing station, applying printing to an area of said web at said printing station, thereafter applying glue at said gluing station directly to a portion of said web less than the total area of said web, said portion including at the most only a part of said printed area, said glue being applied in a fluid state in a pattern of disconnected dots which flow together to cover said portion, and drying said glue quickly to form a coating of non-uniform thickness in which glue is thicker where applied as dots than between said dots.

2,406,288
AMPHIBIAN
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application February 15, 1943, Serial No. 475,934
10 Claims. (Cl. 115—1)

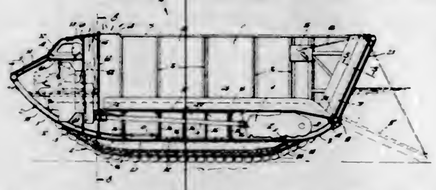
1. An amphibian, comprising: a hull having a bottom, and side walls; two track-laying belts;

means for mounting said belts on said side walls of said hull, said belts being equipped with means for propelling said amphibian when afloat, and for supporting and propelling the same when traveling on land, and at a height to give adequate clearance to permit said bottom to pass over obstacles encountered in land travel; means forming a cargo compartment in said hull, having a floor spaced from said bottom to form a relatively shallow engine com-



partment between said bottom and said floor; a relatively flat internal combustion engine mounted in said engine compartment, said engine being disposed between one end of said amphibian and the center of buoyancy thereof; a gear box disposed on the opposite side of said center of buoyancy from said engine for transmitting power from said engine to said belts; and means for transmitting power from said engine to said gear box.

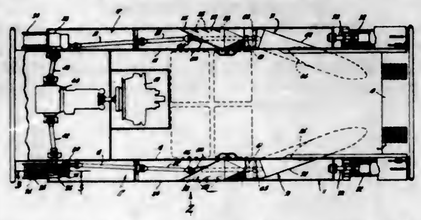
2,406,289
AMPHIBIAN
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 27, 1943, Serial No. 488,685
11 Claims. (Cl. 115—1)



1. In an amphibian the combination of: a hull including a rigid bottom structure, a box-like bow structure and sides; track laying mechanisms mounted on opposite lateral edges of said bottom structure beneath and inwardly from said sides; a door hingedly connected to the rear end of said bottom structure; means for integrating said door and said sides and to form a sealing closure for the space between the rear ends of said bottom structure and said sides when said door is closed; means for closing said door or opening the same and permitting it to swing downwardly to form a ramp to assist in the loading or unloading of cargo from said amphibian; and power means provided on said amphibian for differentially actuating said track laying mechanisms.

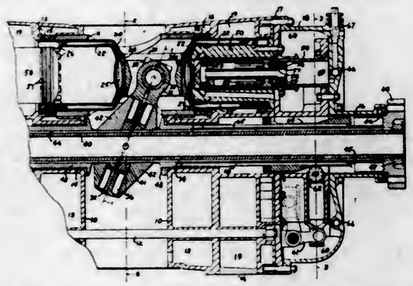
2,406,290
AMPHIBIAN
James M. Hait, San Gabriel, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application September 20, 1944, Serial No. 554,989
4 Claims. (Cl. 115—1)

1. In a track laying amphibian the combination of: a hull for supporting the craft in water; pontoons formed on the side walls of said hull; track laying mechanisms mounted on said pontoons said mechanisms embracing idle and drive sprockets, a series of hull supporting bogie wheels, and an endless flexible track trained about said sprockets and bogie wheels; means



forming a propeller passage through each of said pontoons; a water propeller mounted in each of said passages; means for separately and selectively driving said mechanisms; and means for driving the starboard propeller conjointly with the starboard mechanism and the port propeller conjointly with the port mechanism.

2,406,291
STEAM ENGINE
Edwin S. Hall, Farmington, Conn.
Application September 9, 1943, Serial No. 501,653
11 Claims. (Cl. 121—50)



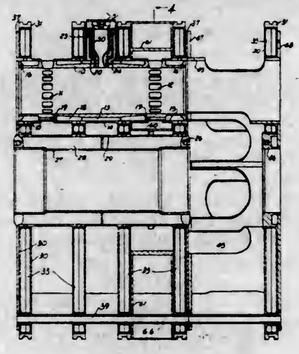
1. In a barrel engine mechanism, a reciprocating cylinder member having a double wall, the outer wall forming a crosshead and the inner wall forming a cylinder bore, a non-reciprocating piston operably received by said cylinder bore, and ports in the inner cylinder wall, said ports opening axially of said cylinder member into the space around said non-reciprocating piston.

6. In a steam engine, a shaft, cylinders parallel thereto, inlet valves for admitting steam to said cylinders, and valve operating mechanism actuated to open said valves by said shaft and to close said valves by steam pressure acting on said operating mechanism as valve springs.

2,406,292
ENGINE FRAME
Edwin S. Hall, Farmington, Conn., assignor to Rogers Diesel and Aircraft Corporation, New York, N. Y., a corporation of New York
Application April 14, 1945, Serial No. 588,323
20 Claims. (Cl. 123—58)

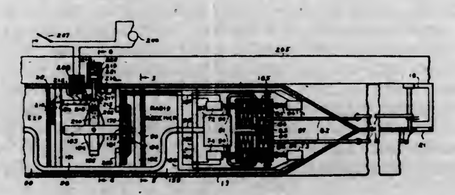
12. In an opposed-piston barrel engine, a cylinder block comprising four hollow bulkheads, a similar set of holes thru each bulkhead, and cylinder members extending thru said holes and connecting said bulkheads, the first two bulkheads spaced apart and forming an air manifold, the last two bulkheads spaced apart and forming an exhaust manifold, each of said hollow

bulkheads forming a water manifold, each of said cylinder members having air ports opening into said air manifold and exhaust ports opening into said exhaust manifold and a water jacket with ports opening into said hollow bulkheads, the two inner bulkheads spaced apart, and a precombustion chamber extending radially from each of said cylinders into the space between said inner



bulkheads, a water jacket for said chamber, ports connecting said chamber jacket with said inner hollow bulkheads, a separable cover for said chamber, a water jacket in said cover, a bypass for coolant between said inner bulkheads adjacent said cover, and means for directing coolant from said bypass into and thru said cover jacket.

2,406,293
GYROSTABILIZED BOMB CONTROL SYSTEM
John Hays Hammond, Jr., Gloucester, Mass.
Application March 16, 1943, Serial No. 479,312
5 Claims. (Cl. 102—3)

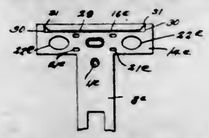


1. A bomb control system comprising in combination, a carrier bourne signal transmitting apparatus including means to transmit selective control signals, and a bomb having signal receiving means responsive to said signals, rudders to control the path of descent of said bomb, rudder control mechanisms, selector mechanism mounted to turn freely in said bomb, gyrostabilized mechanism connected to stabilize said selector mechanism in azimuth regardless of the rotation of said bomb, means connecting said selector mechanism to select the rudder control mechanism which bears a predetermined azimuth position with respect thereto, and means selectively responsive to said received signals to actuate the selected rudder control mechanism for deflecting said bomb in a direction determined by the control signal.

2,406,294
INSECTICIDE
James W. Hansen and Carroll C. Cassil, Berkeley, Calif., assignors to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware
No Drawing. Application June 27, 1945, Serial No. 601,916
12 Claims. (167—33)

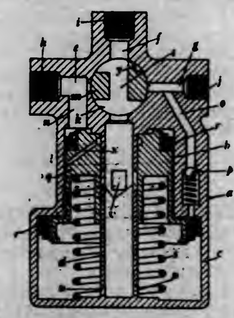
1. An insecticidal composition containing as active toxic ingredient cyclopropyl furyl propenone and a carrier therefor.

2,406,295
MOUNTING FOR SWITCHES AND THE LIKE
Robert Haynes, San Francisco, Calif.
Application December 10, 1943, Serial No. 513,795
1 Claim. (Cl. 174—52)



An approximately I-shaped yoke for mounting electrical appliances of the switch box type, comprising an elongated body and transverse heads at the ends of the body, the heads having longitudinal slots provided with extensions prolonged toward the outer edges of the heads, the heads having grooves reaching from the extensions to the outer edges of the heads, the slots, the extensions and the grooves, forming readily bendable and readily severable tongues which are prolonged beyond the longitudinal edges of the body.

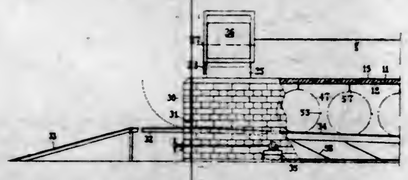
2,406,296
LIQUID FUEL SUPPLY DEVICE FOR USE WITH INTERNAL-COMBUSTION PRIME MOVERS
Richard Joseph Ifield, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application August 21, 1945, Serial No. 611,754
In Great Britain July 7, 1944
5 Claims. (Cl. 103—44)



1. For use with an internal combustion prime mover of the kind specified, a liquid fuel supply device comprising in combination a body formed with a cylindrical bore of two different diameters, and with liquid fuel inlet and delivery openings, liquid fuel passages for connecting the smaller part of the bore to the inlet opening and the larger part of the bore to the delivery opening, a stepped and spring loaded piston slidable in the bore under the action of liquid fuel supplied under pressure to the smaller part of the bore from

the inlet opening, a control valve movable to different positions for establishing and interrupting communication between the delivery opening and the passage connected to the larger part of the bore, and means for establishing communication between the said passages under the control of the fuel pressure acting on the piston.

2,406,297
REGENERATION OF WASTE RUBBER
Alexander Johnston, Edinburgh, Scotland, assignor to The North British Rubber Company Limited, Edinburgh, Scotland
Original application November 12, 1942, Serial No. 465,400. Divided and this application January 7, 1944, Serial No. 517,412. In Great Britain March 3, 1942
8 Claims. (Cl. 18—2)



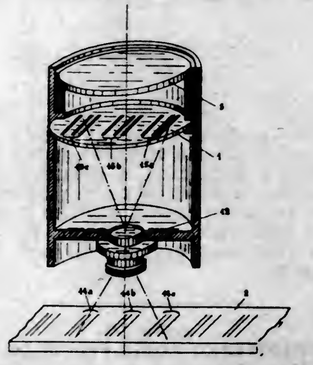
1. Apparatus for reclaiming and regenerating waste rubber comprising in combination a tunnel-like casing divided into heated and cooled zones, a discharging compartment at the outer end of the cooled zone, an entrance at the end of the tunnel remote from the cooled zone, means for passing a stream of heated inert exhaust gases through the heated zone from the inner end thereof and toward the entrance end of the tunnel, an inclined trackway in the bottom of the tunnel throughout the length thereof, at least that portion of the trackway in the heated zone being movable in a direction longitudinally of the tunnel-like casing, means for moving said trackway, a series of cylindrical perforated containers for waste rubber supported on and in rolling contact with the trackway and movable through the tunnel-like casing from the entrance end through the heated and cooled zones and successively into the discharging compartment, means for isolating the discharging compartment when a container is to be discharged and means for temporarily arresting movement of the containers through the tunnel whereby rotary movement is imparted to the containers by engagement with the movable trackway.

2,406,298
CONTAINER CLOSURE
Ellis Gray King, Pittsburgh, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.
Application June 30, 1944, Serial No. 542,894
17 Claims. (Cl. 215—40)



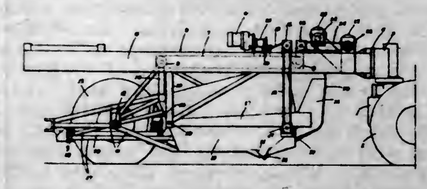
1. A closure comprising a shell and a sealing element including a cured alkyd resin consisting of the cured condensation reaction product of from 146 to 365 grams of a saturated, aliphatic dibasic acid containing 4 to 10 carbon atoms; one gram molecular weight of an unsaturated, aliphatic dibasic acid containing from 4 to 5 carbon atoms and in which the two carbonyl groups are connected to two different carbon atoms and in which the carbon to carbon double bond is conjugated with at least one of the carbonyl double bonds; and propylene glycol in an amount sufficient to condense with said acids and form a resinous condensation product having an average molecular weight of at least 1,000.

2,406,299
MACHINE TOOL WITH PHOTOELECTRIC POSITIONING OF THE WORK TABLE
Maurice Koulicovitch, Geneva, Switzerland, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland
Application February 11, 1942, Serial No. 430,458
In Switzerland December 28, 1940
4 Claims. (Cl. 250—41.5)



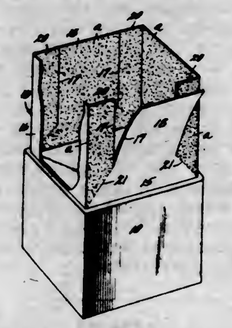
2. In a machine-tool with photo-electric positioning of the work-table, in combination, a work-table carrying at least one scale having precision graduations arranged in succession at spaced points in the direction of movement of said table, a photo-electric cell facing said graduations, a grid having transparent and opaque parts interposed between said scale and said cell, the transparent parts of said grid being spaced apart in correspondence with and being in less number than said graduations, and an optical device for projecting an illuminated image of several of said graduations through said grid to said cell.

2,406,300
SCRAPER
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application June 18, 1945, Serial No. 600,154
6 Claims. (Cl. 37—126)



1. A self-propelled scraper comprising, in unitary relation, a tractor, an elongated main frame disposed above the ground and coupled to the tractor in draft relation, an earth digging and carrying bowl unit extending below the main frame, means mounting the bowl unit in connection with the main frame for relative lengthwise movement, power means between the frame and bowl unit operative to effect such movement of the latter, and a front apron mounted in connection with the frame and disposed in cooperative relation ahead of the bowl unit, the bowl unit being open at the forward end and said end being closed by the apron when the bowl unit is moved lengthwise into engagement therewith; said front apron including transversely spaced side arms projecting rearwardly on opposite sides of the bowl, rigid depending brackets on the main frame to which said side arms are pivotally attached at the rear, and vertically adjustable means suspending the apron from said main frame.

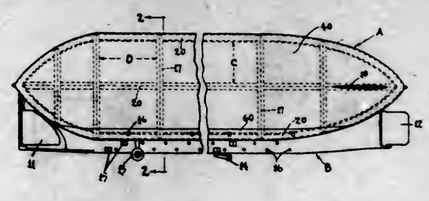
2,406,301
SEALED MOISTUREPROOF PAPER PACKAGE
James W. Lively, San Jose, Calif.
Application November 11, 1943, Serial No. 509,909
1 Claim. (Cl. 229—14)



A composite sealed moistureproof paper package, comprising an inner wrapper sheet folded over and completely enclosing the commodity, and an outer bag enclosing said wrapped commodity, opposite bag walls at the upper end thereof being coated on their inner surfaces with adhesive and provided with spaced intermediate longitudinally disposed slits for a portion of their extent, the outer surfaces of said walls outwardly of said slits being coated with adhesive and folded inwardly in contact with the inner surfaces of the intermediate wall portions in conjunction with the remaining inwardly folded opposite bag walls adhesively secured to the outer surface of said inner wrapper sheet to provide opposite adhesively coated flaps of multiple thickness, said flaps being in turn folded inwardly in overlapped relation over said inwardly folded and adhesively secured remaining opposite bag walls and adhesively secured thereto and to each other.

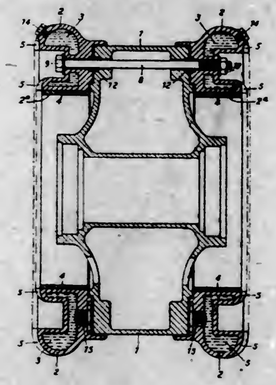
2,406,302
DIRIGIBLE AIRSHIP
Nels H. Nelson, Minneapolis, Minn.
Application February 22, 1943, Serial No. 476,697
7 Claims. (Cl. 244—30)

1. An airship, an elongated balloon structure having a framework including tubular reaches, each consisting of a pair of mating semi-cylindrical members formed from sheet material with outwardly extending flanges along their longitudinal edges, said flanges being welded together to unite the mating members, said reaches being welded together at their ends to provide main longitudinal girders and main transverse frames of annular formation, said framework further including intermediate transverse frames of annular formation made up of channel reaches of sheet material, mounted at their ends on said girders, the disposition of said girders being such



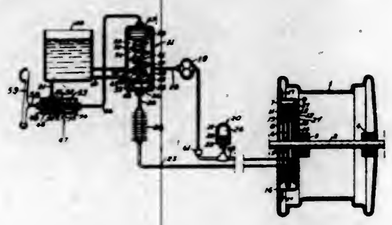
that the flanges of each at one side thereof extend outwardly, said channel reaches having attaching brackets welded to the ends thereof and saddled upon and, in turn, welded to said tubular girder reaches proper and to the outwardly extending flanges thereof, the outer edges of said outwardly extending flanges and the outer edges of said channel reaches providing bearing surfaces, and a covering overlying said surfaces.

2,406,303
SELF-COOLING WHEEL
René Lucien Levy, Paris, France, assignor to Societe D'Inventions, Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland
Application April 2, 1941, Serial No. 386,553
In France April 2, 1940
1 Claim. (Cl. 301—6)



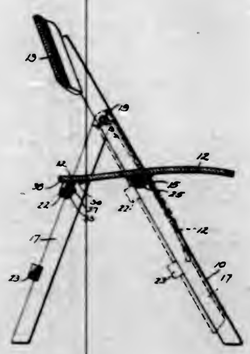
A wheel comprising an apertured first element forming a body, a second element forming a rim for supporting the tire, a brake drum on said second element, a chamber in the interior of said element and adapted to be filled with liquid, a third element similar to the second element and arranged symmetrically thereto with respect to the first element, the second and third elements having internal tubular members presenting bores aligned with the apertures of the first element, studs passing through the apertures and bores and uniting the three elements, and shearing rings at the junction of the second and third elements with the first element.

2,406,304
DEVICE AND SYSTEM FOR THE BRAKING OF VEHICLES
René Lucien Levy, Paris, France, assignor to Societe D'Inventions, Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland
Application May 4, 1943, Serial No. 485,665
In France June 7, 1941
4 Claims. (Cl. 188—152)



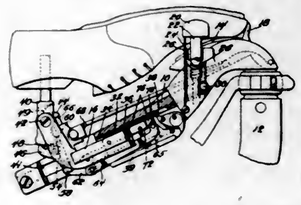
1. In a brake system, hollow expansible brake shoes, a reservoir for pressure fluid, supply and return connections between said shoes and said reservoir, a power operated pump connected with the supply connection, a control valve interposed in the return connection, a piston for operating said control valve, means for conducting fluid from said reservoir to said piston, and means for varying the pressure of the fluid applied to said piston to operate said control valve.

2,406,305
FOLDING CHAIR
Anton A. Maurer, Green Bay, Wis., assignor to Norcor Manufacturing Company, Inc., Green Bay, Wis., a corporation of Wisconsin
Application May 13, 1944, Serial No. 535,437
4 Claims. (Cl. 155—142)



4. A folding chair, comprising the combination of upwardly convergent, pivotally connected front and rear legs, including a pair of front legs having a front cross connection at seat level and a pair of rear legs having a similar rear cross connection provided with forwardly extending headed projections, a seat pivoted to the front cross connection having its rear portion movable into and out of contact with the upper surface of said rear cross connection, brackets secured to the rear portion of the seat and provided with depending resilient arms having reversely bent lower portions in position to yieldingly engage and snap back of the heads of said projections when the seat is being swung to position for use.

2,406,306
SHOE SUPPORTING JACK
Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 31, 1945, Serial No. 575,473
11 Claims. (Cl. 12—127)



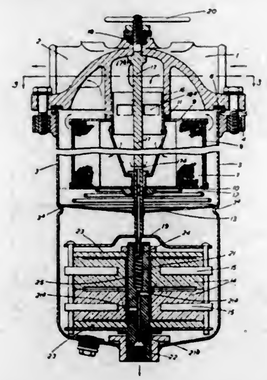
1. A shoe supporting jack comprising a jack frame, a toe supporting assembly including a toe gauge stationary on the frame, toe grips engaging opposite sides of the shoe toe, and a slide carried on the frame movable to tighten said grips, a heel supporting and clamping assembly including a guideway on the frame, a heel support slidably mounted in the guideway to move in a direction opposite to the direction of movement imparted to the slide to tighten the shoe against the toe gauge and grips, and means including a jacking lever actuable for relatively moving said heel support and slide to tighten said assemblies one against the other, and thereafter to secure the heel support rigidly directly to the jack frame.

2,406,307
ANTICORROSIVE PAINT
Norman John Read, Greenford, England, assignor to Goodlass Wall & Lead Industries Limited, Oxted, Surrey, England
No Drawing. Application March 9, 1945, Serial No. 581,942. In Great Britain February 11, 1944
9 Claims. (Cl. 106—14)

1. An anti-corrosive oil paint comprising as a vehicle constituent a glyceride drying oil and as a pigment constituent, a plumbate of an alkaline earth metal in which substantially the whole of the lead is present as lead peroxide combined with an alkaline earth metal oxide.

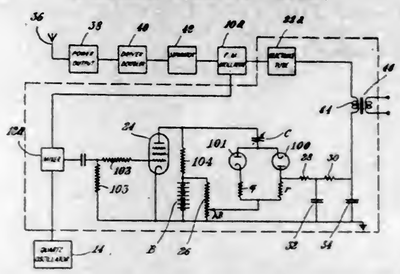
2,406,308
FILTER
Cecil Gordon Vokes and Edward Arthur Stokes, London, England; said Stokes assignor to Vokes Limited, London, England
Application September 1, 1943, Serial No. 500,873
In Great Britain September 17, 1942
7 Claims. (Cl. 210—164)

1. In a filter, a generally cylindrical casing having a central axis and a closed lower end, a header closing the upper end of said casing, said header having internal wall means defining a chamber, there being an inlet in said header in communication with said chamber, there also being an outlet in said header exteriorly of said chamber, a partition in said casing forming first and second compartments spaced along said axis, a coarse filtering element in said first compartment and having a first closed end having an opening therein, a second and imperforate end remote from said wall and perforate side walls, resilient means between said second end and partition yieldingly urging said first end of said coarse filtering element into fluid-tight engagement with the end of said chamber wall means, whereby fluid passes from said inlet to said chamber, thence through the opening in the first end of said coarse filtering element to the interior of the same and through said perforate side wall to said outlet, a fine filtering element in said second compartment having an internal passage, a second outlet in the lower



end of said casing, and means including a tube extending axially through the second end of said coarse filtering element and partition and forming a passageway to said second compartment and the exterior of said fine filtering element, the interior passage of said fine filtering element having means providing communication with said second outlet.

2,406,309
FREQUENCY STABILIZATION
Marc Ziegler and Manuel Julio Kobilsky, Buenos Aires, Argentina, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 3, 1942, Serial No. 464,380
9 Claims. (Cl. 179—171.5)

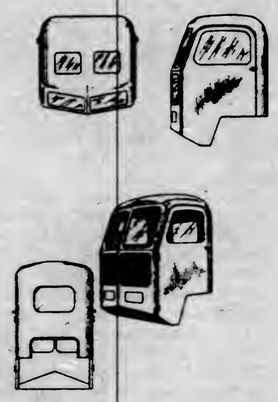


1. The method of detecting frequency deviations of an electrical oscillation about a predetermined frequency value by means of a circuit arrangement comprising a direct current source and current interrupting means responsive to said electrical oscillation connected in series with said source, comprising the steps of generating electrical impulses for each period of said oscillation having an area substantially proportional to the voltage of said source and a duration smaller than the periods of the highest frequency to be detected, integrating said impulses to obtain an electrical quantity substantially proportional to the frequency of said oscillation and to said voltage, and simultaneously injecting another electrical quantity derived from said source in opposition to said first quantity to produce an output quantity which is compensated to zero independently of variations of said voltage at a frequency value of the oscillation equal to the said predetermined frequency value and the polarity and value of which are proportional to the deviation of said electrical oscillation from the predetermined frequency value.

DESIGNS

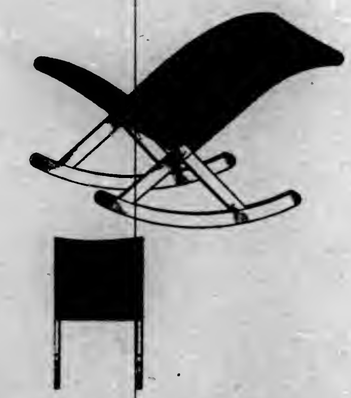
AUGUST 20, 1946

145,414
DESIGN FOR A CAB BODY OR THE LIKE
Robert L. Allen, Battle Creek, Mich.
Application February 1, 1945, Serial No. 117,713
Term of patent 14 years
(Cl. D14—3)



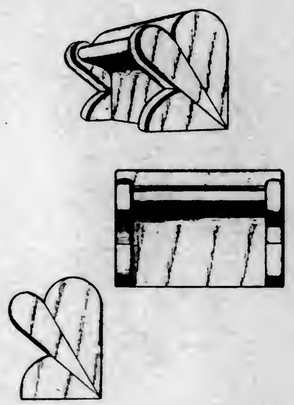
The ornamental design for a cab body or the like, substantially as shown.

145,415
DESIGN FOR A FOOTSTOOL
Merle M. Armstrong, San Francisco, Calif.
Application September 1, 1945, Serial No. 121,793
Term of patent 14 years
(Cl. D15—8)



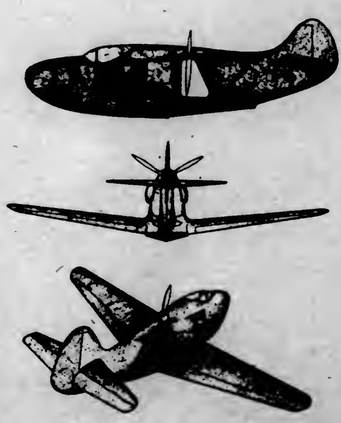
The ornamental design for a footstool, as shown and described.

145,416
DESIGN FOR A CASING FOR A PIANO OR SIMILAR ARTICLE
Jack Barofsky, Los Angeles, Calif.
Application June 5, 1945, Serial No. 119,912
Term of patent 14 years
(Cl. D56—9)

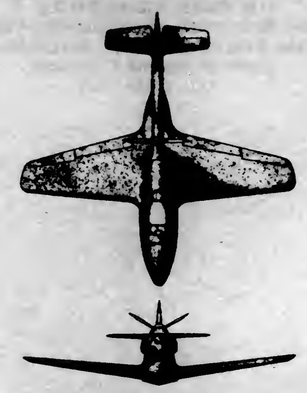


The ornamental design for a casing for a piano or similar article, as shown and described.

145,417
DESIGN FOR AN AIRPLANE
Theodore C. Bennett, Morton, Mark Morton, Philadelphia, Pa., and Frederick M. Gloeckler, Upper Darby, Pa.
Application August 8, 1945, Serial No. 121,322
Term of patent 14 years
(Cl. D71—1)

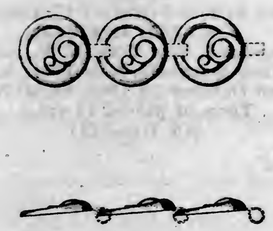


145,417—Continued



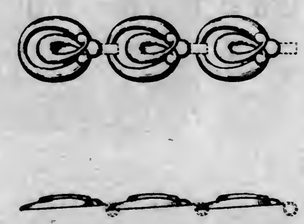
The ornamental design for an airplane, substantially as shown.

145,418
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,793
Term of patent 3½ years
(Cl. D45—4)



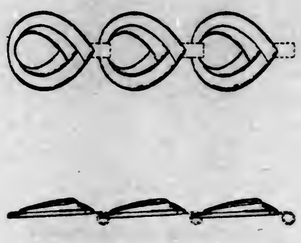
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,419
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,794
Term of patent 3½ years
(Cl. D45—4)



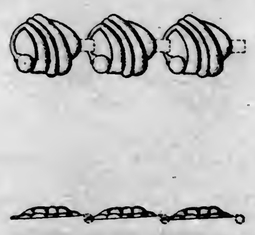
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,420
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,795
Term of patent 3½ years
(Cl. D45—4)



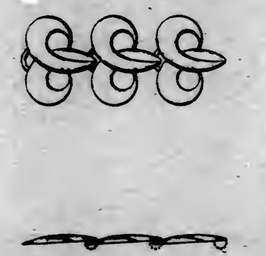
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,421
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,796
Term of patent 3½ years
(Cl. D45—4)



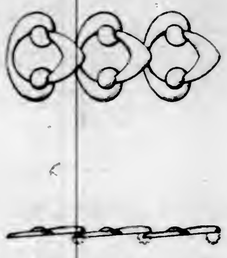
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,422
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,797
Term of patent 3½ years
(Cl. D45—4)



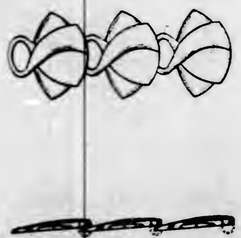
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,423
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,798
Term of patent 3½ years
(Cl. D45—4)



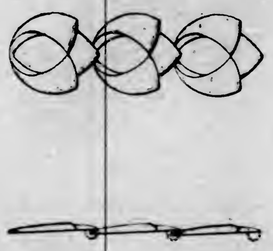
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,424
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,799
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,425
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application January 21, 1946, Serial No. 125,800
Term of patent 3½ years
(Cl. D45—4)



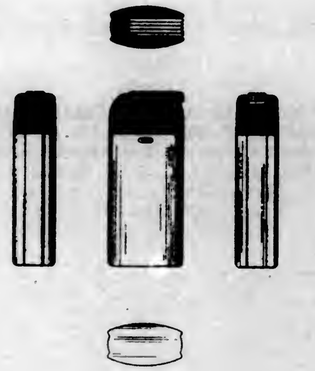
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,426
DESIGN FOR A LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Jules Braunstein, Los Angeles, Calif.
Application February 2, 1946, Serial No: 126,179
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

145,427
DESIGN FOR A POCKET FLASHLIGHT OR LIKE ARTICLE
Peter Copeland, New York, N. Y., assignor to Sidney Schwartz, New York, N. Y.
Application October 29, 1945, Serial No. 123,262
Term of patent 14 years
(Cl. D48—24)



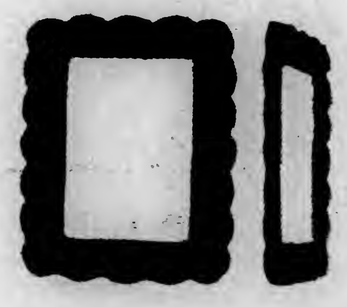
The ornamental design for a pocket flashlight or like article, as shown.

145,428
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Alice Veronica Corso, New York, N. Y.
Application April 27, 1946, Serial No. 129,064
Term of patent 3½ years
(Cl. D92—26)



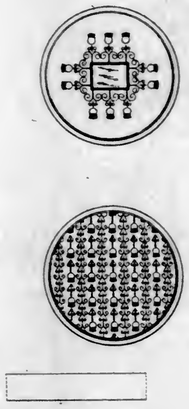
The ornamental design for a tablecloth or similar article, substantially as shown and described.

145,429
DESIGN FOR A MIRROR FRAME OR THE LIKE
Freda Diamond, New York, N. Y., assignor to Syracuse Ornamental Co., Syracuse, N. Y., a co-partnership
Application August 23, 1945, Serial No. 121,586
Term of patent 7 years
(Cl. D29—20)



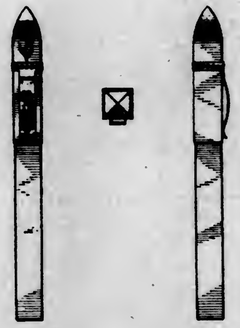
The ornamental design for a mirror frame or the like, substantially as shown.

145,430
DESIGN FOR A COMPACT
Enid Edson, New York, N. Y.
Application January 4, 1945, Serial No. 117,243
Term of patent 14 years
(Cl. D86—10)



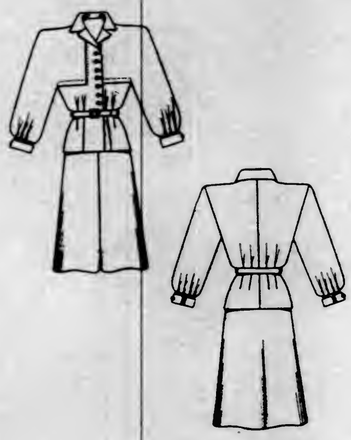
The ornamental design for a compact, substantially as shown and described.

145,431
DESIGN FOR A FOUNTAIN PEN OR THE LIKE
Tyyne D. Flanagan, Chicago, Ill.
Application December 6, 1945, Serial No. 124,428
Term of patent 3½ years
(Cl. D74—17)



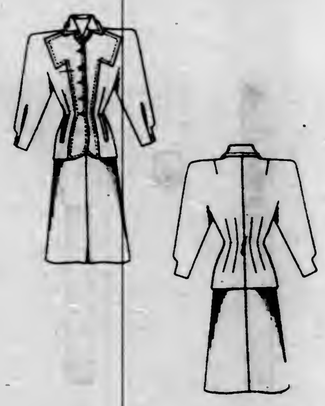
The ornamental design for a fountain pen or the like, substantially as shown.

145,432
DESIGN FOR A SUIT
Marie Francine, New York, N. Y.
Application June 4, 1946, Serial No. 130,365
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

145,433
DESIGN FOR A SUIT
Jules Freedman, New York, N. Y.
Application May 9, 1946, Serial No. 129,491
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

145,434
DESIGN FOR A SUIT
Jules Freedman, New York, N. Y.
Application May 11, 1946, Serial No. 129,616
Term of patent 3½ years
(Cl. D3—4)



The ornamental design for a suit, substantially as shown.

145,435
DESIGN FOR A SUIT
Jules Freedman, New York, N. Y.
Application May 21, 1946, Serial No. 129,954
Term of patent 3½ years
(Cl. D3—4)



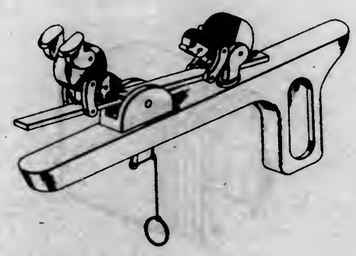
The ornamental design for a suit, substantially as shown.

145,436
DESIGN FOR A COAT
Jules Freedman, New York, N. Y.
Application May 21, 1946, Serial No. 129,955
Term of patent 3½ years
(Cl. D3—4)



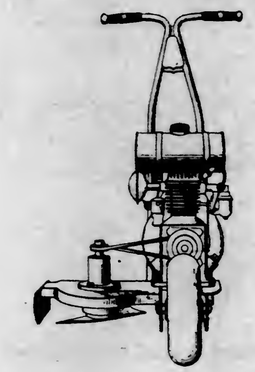
The ornamental design for a coat, substantially as shown.

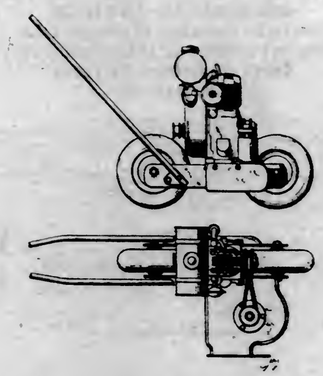
145,437
DESIGN FOR A PISTOL TOY
Edward D. Geissler, Detroit, Mich.
Application October 19, 1945, Serial No. 123,033
Term of patent 3½ years
(Cl. D34—15)

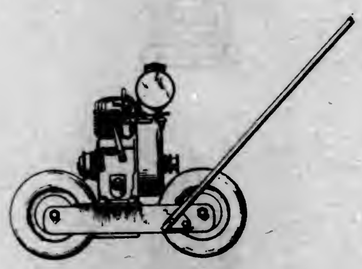


The ornamental design for a pistol toy, substantially as shown and described.

145,438
DESIGN FOR A POWER DRIVEN LAWN TRIMMER
Leonard B. Goodall, Warrensburg, Mo.
Application July 30, 1945, Serial No. 121,079
Term of patent 14 years
(Cl. D40—1)

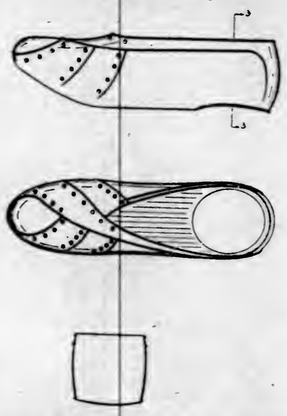






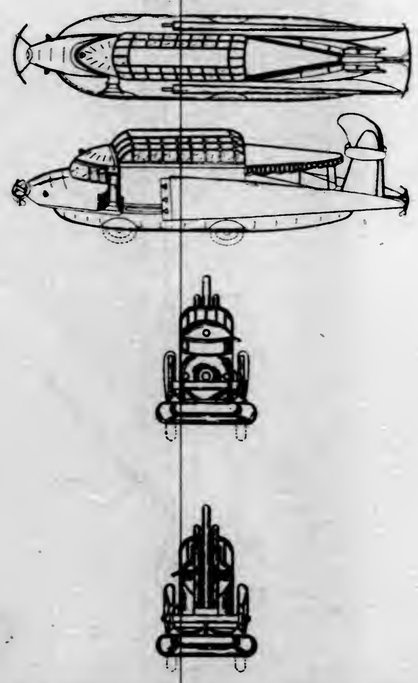
The ornamental design for a power driven lawn trimmer, as shown.

145,439
DESIGN FOR A RUBBER OVERSHOE
Emil Gottschalk, New York, N. Y., assignor to Gem Rubber Corporation, New York, N. Y.
Application May 23, 1946, Serial No. 130,011
Term of patent 7 years
(Cl. D7—4)



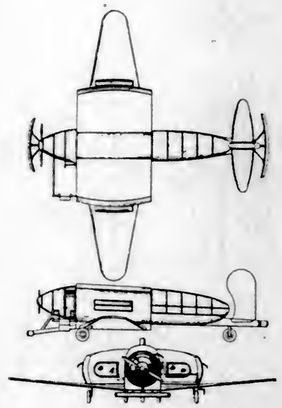
The ornamental design for a rubber overshoe, as shown.

145,440
DESIGN FOR A FOLDING HOUSE VEHICLE OR SIMILAR ARTICLE
Nettie E. Graven, Wooster, Ohio
Application September 7, 1945, Serial No. 121,911
Term of patent 14 years
(Cl. D14—3)



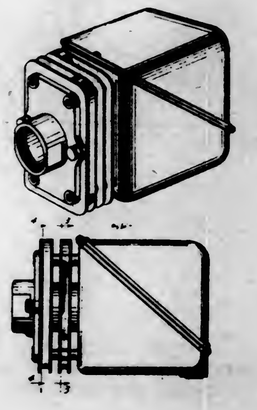
The ornamental design for a folding house vehicle or similar article, substantially as shown and described.

145,441
DESIGN FOR A FOLDING HOUSE VEHICLE OR SIMILAR ARTICLE
Nettie E. Graven, Wooster, Ohio
Application October 17, 1945, Serial No. 122,921
Term of patent 14 years
(Cl. D14—3)



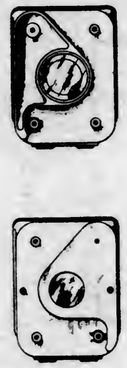
The ornamental design for a folding house vehicle or similar article, substantially as shown and described.

145,442
DESIGN FOR A FLAME FAILURE CONTROL UNIT
James C. Hamilton, Lexington, Mass.
Application June 20, 1945, Serial No. 120,210
Term of patent 14 years
(Cl. D81—1)

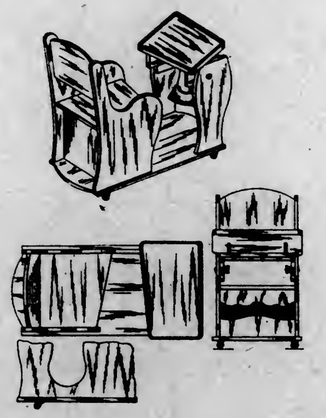


The ornamental design for a flame failure control unit, substantially as shown and described.

145,442—Continued



145,443
DESIGN FOR A COMBINATION CHAIR AND TABLE
Louis S. Harsany, Cleveland, Ohio
Application November 29, 1945, Serial No. 124,183
Term of patent 14 years
(Cl. D33—11)



The ornamental design for a combination chair and table, substantially as shown.

145,444
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Thomas R. Ingram, Glen Ellyn, Ill., assignor to Groves Shoe Co., Chicago, Ill., a corporation of Illinois
Application April 18, 1946, Serial No. 128,730
Term of patent 7 years
(Cl. D7—7)



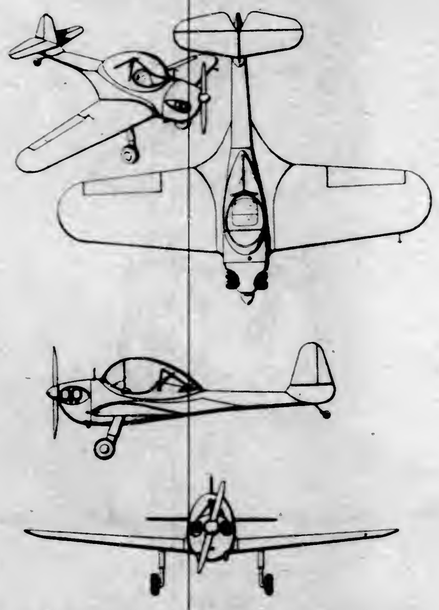
The ornamental design for a shoe or similar article, substantially as shown.

145,445
DESIGN FOR A SLIPPER OR SIMILAR ARTICLE
Thomas R. Ingram, Glen Ellyn, Ill., assignor to Groves Shoe Co., Chicago, Ill., a corporation of Illinois
Application April 18, 1946, Serial No. 128,731
Term of patent 7 years
(Cl. D7—7)



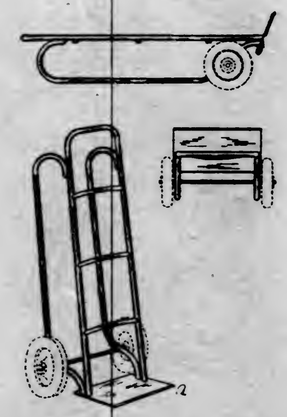
The ornamental design for a slipper or similar article, substantially as shown.

145,446
DESIGN FOR AN AIRPLANE
Walter C. Jamouneau, Lock Haven, Pa., assignor to Piper Aircraft Corporation, Lock Haven, Pa., a corporation of Pennsylvania
Application August 30, 1945, Serial No. 121,737
Term of patent 14 years
(Cl. D71—1)



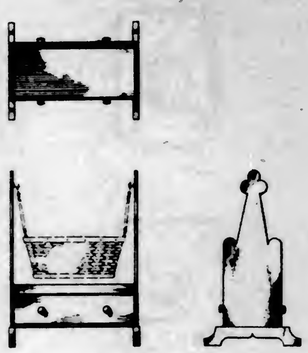
The ornamental design for an airplane, as shown.

145,447
DESIGN FOR A HAND TRUCK
Albert S. Johann, Milwaukee, Wis.
Application March 12, 1945, Serial No. 118,415
Term of patent 3½ years
(Cl. D14—3)



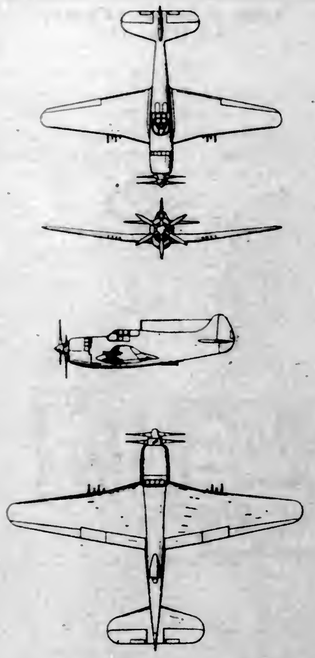
The ornamental design for a hand truck, substantially as shown and described.

145,448
DESIGN FOR A CHILD'S BASSINET SUPPORT
Erline H. Kautzman, Everett, Wash.
Application December 3, 1945, Serial No. 124,270
Term of patent 14 years
(Cl. D5—5)



The ornamental design for a child's bassinet support, as shown and described.

145,449
DESIGN FOR AN AIRPLANE
John A. Kerr, Kenmore, and John A. Mattison, Williamsville, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application June 6, 1944, Serial No. 113,870
Term of patent 7 years
(Cl. D71—1)



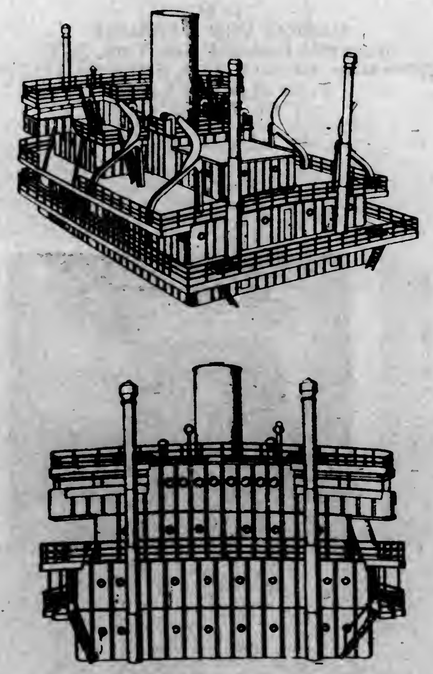
The ornamental design for an airplane, as shown.

145,450
DESIGN FOR A TYPEWRITER
George H. Kress, Johnson City, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York.
Application December 22, 1944, Serial No. 117,029
Term of patent 14 years
(Cl. D64—11)



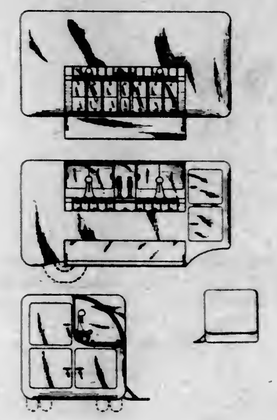
The ornamental design for a typewriter, substantially as shown and described.

145,451
DESIGN FOR A DECK HOUSE FOR A SHIP
Clyde M. Leavitt, Pascagoula, Miss., assignor to Ingalls Shipbuilding Corporation, a corporation of Delaware.
Application December 22, 1945, Serial No. 124,951
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a deck house for a ship, substantially as shown and described.

145,452
DESIGN FOR A PORTABLE SODA FOUNTAIN
Joseph R. Lewis, Burbank, Calif.
Application September 17, 1945, Serial No. 122,115
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a portable soda fountain, substantially as shown and described.

145,453
DESIGN FOR AN OVERBOOT OR SIMILAR ARTICLE
Leslie H. L'Hollier, Waltham, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 23, 1946, Serial No. 129,999
Term of patent 14 years
(Cl. D7—4)



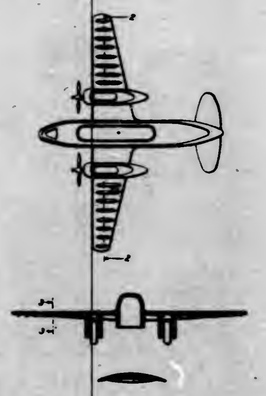
The ornamental design for an overboot or similar article, substantially as shown and described.

145,454
DESIGN FOR A LADY'S SUIT
Julius Lipman, New York, N. Y.
Application May 29, 1946, Serial No. 130,203
Term of patent 3½ years
(Cl. D3—4)



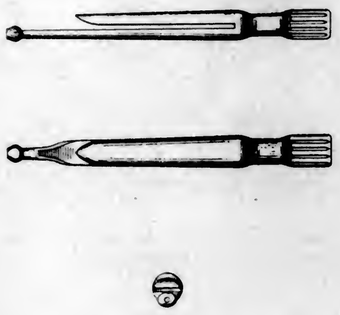
The ornamental design for a lady's suit, substantially as shown.

145,455
DESIGN FOR A TOY AIRPLANE
Jerome J. Miller, Ottoville, Ohio
Application July 28, 1945, Serial No. 121,048
Term of patent 14 years
(Cl. D34—15)



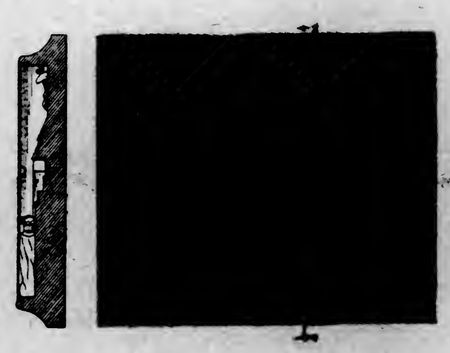
The ornamental design for a toy airplane, as shown and described.

145,456
DESIGN FOR A HAIR CURLER
Harry Natkiel, New York, N. Y., assignor to Pinlox Products Co., New York, N. Y.
Application October 26, 1945, Serial No. 123,219
Term of patent 3½ years
(Cl. D86—10)



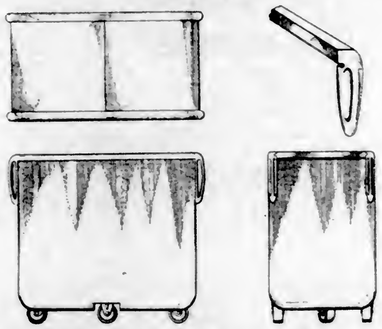
The ornamental design for a hair curler, substantially as shown.

145,457
DESIGN FOR A PLAQUE
Arcangelo Paladini, New York, N. Y.
Application August 9, 1945, Serial No. 121,332
Term of patent 7 years
(Cl. D29—23)



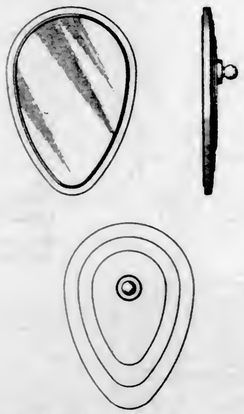
The ornamental design for a plaque, substantially as shown.

145,458
DESIGN FOR A MOBILE SERVER
Anthony Pinelli, Brooklyn, N. Y., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y.
Application March 23, 1945, Serial No. 118,647
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a mobile server, substantially as shown.

145,459
DESIGN FOR A REARVIEW AUTOMOBILE MIRROR
Benjamin Putterman, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn., a corporation of New York
Application December 14, 1945, Serial No. 124,733
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a rear view automobile mirror, as shown.

145,460
DESIGN FOR A PIN OR SIMILAR ARTICLE
Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,471
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

145,461
DESIGN FOR A PIN OR SIMILAR ARTICLE
Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,472
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

145,462
DESIGN FOR A PIN OR SIMILAR ARTICLE
Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,474
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

145,463
DESIGN FOR A PIN OR SIMILAR ARTICLE
Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,475
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, as shown.

145,464
DESIGN FOR A PIN OR SIMILAR ARTICLE
Murray Slater, Brooklyn, N. Y.
Application January 11, 1946, Serial No. 125,476
Term of patent 3½ years
(Cl. D45—19)



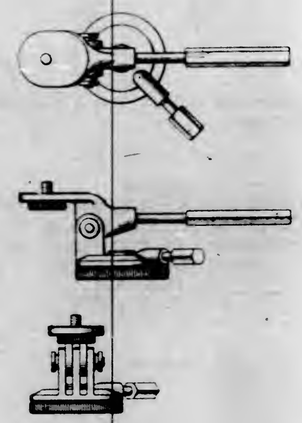
The ornamental design for a pin or similar article, as shown.

145,465
DESIGN FOR AN ELECTRIC IRON OR SIMILAR ARTICLE
Leland H. Snyder, Chicago, Ill., assignor to Quality Hardware and Machine Corporation, Chicago, Ill., a corporation of Illinois
Application January 16, 1946, Serial No. 125,622
Term of patent 14 years
(Cl. D49—6)



The ornamental design for an electric iron or similar article, as shown.

145,466
DESIGN FOR A TRIPOD HEAD
Byron R. Sparks, Chicago, Ill., assignor to Harry J. Graw, Chicago, Ill.
Application September 6, 1945, Serial No. 121,861
Term of patent 14 years
(Cl. D57—1)



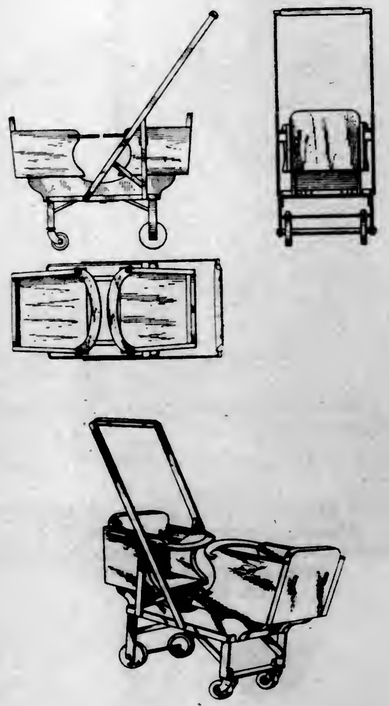
The original design for a tripod head, substantially as shown.

145,467
DESIGN FOR AN EXPANSIBLE LINK CHAIN FOR WATCH BRACELET OR THE LIKE
Edwin F. M. Speidel, Cranston, R. I.
Application August 17, 1944, Serial No 114,908
Term of patent 14 years
(Cl D45—4)



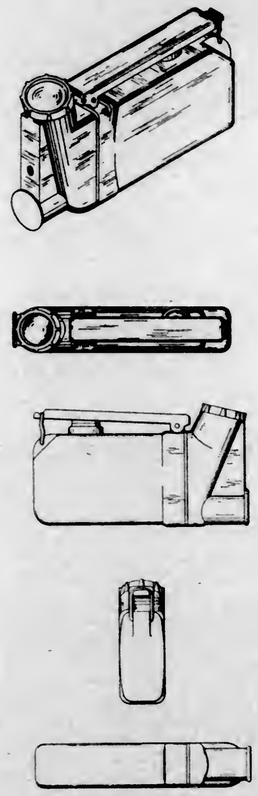
The ornamental design for an expansible link chain for watch bracelet or the like, substantially as shown.

145,468
DESIGN FOR A STROLLER
Nellie B. Spence, Springfield, Mo.
Application October 26, 1945, Serial No. 123,225
Term of patent 14 years
(Cl. D14—14)



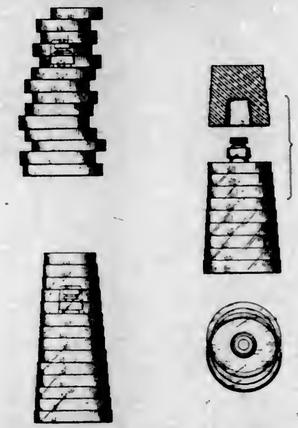
The ornamental design for a stroller as shown.

145,469
DESIGN FOR A FLASHLIGHT
Lester E. Stegman, Cincinnati, Ohio, assignor to Dayton Acme Co., Cincinnati, Ohio, a corporation of Ohio
Application June 30, 1945, Serial No. 120,435
Term of patent 14 years
(Cl. D48—24)



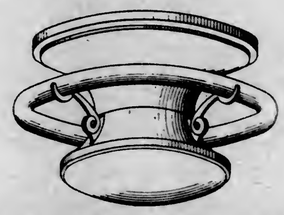
The ornamental design for a flashlight, substantially as shown.

145,470
DESIGN FOR A BOTTLE
Andre Sussman, New York, N. Y., assignor to Moneau Corp. of New York, New York, N. Y, a corporation of New York
Application June 2, 1945, Serial No 119,865
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, substantially as shown.

145,471
DESIGN FOR AN ELECTRIC LIGHTING FIXTURE
Arthur E. Wiedenhoeft, Glen Ellyn, Ill.
Application June 4, 1945, Serial No. 119,882
Term of patent 7 years
(Cl. D48—23)



The ornamental design for an electric lighting fixture, as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aero Needle Company, Chicago, Ill. Phonograph needles. Serial No. 495,431; Aug. 20. Class 36.

Aisenstein, Louis, & Bros., assignor to Louis Aisenstein & Bros. Inc., New York, N. Y. Watch and clock movements. Serial No. 480,098; Aug. 20. Class 27.

Aisenstein, Louis, & Bros., Inc.: *See*—
Aisenstein, Louis, & Bros.

Alpha-Craft Company: *See*—
Meyers, Louis G.

American Cyanamid Company, New York, N. Y. Synthetic resins. Serial No. 488,439; Aug. 20. Class 6.

Ams, Max, Inc., New York, N. Y. Apple jelly. Serial No. 466,372; Aug. 20. Class 46.

Andrews, H. P., Paper Company, New York, N. Y. Chemicals. Serial No. 498,574; Aug. 20. Class 6.

Aristocrat Leather Products, Inc., New York, N. Y. Leather watch straps, leather chains, leather watch fobs, etc. Serial No. 492,123; Aug. 20. Class 40.

Art-Craft Briar Pipe Co., Brooklyn, N. Y. Smoking pipes. Serial No. 491,610; Aug. 20. Class 8.

Art-Craft Briar Pipe Co., Brooklyn, N. Y. Smoking pipes. Serial Nos. 491,613–19; Aug. 20. Class 8.

Beck, Charles A., doing business as Bugle Petroleum Products, Pomona, Calif. Gasoline, and lubricating oils and greases. Serial No. 495,566; Aug. 20. Class 15.

Blue Ribbon Products Company, San Francisco, Calif. Granulated soap and washing and cleaning compound. Serial No. 495,534; Aug. 20. Class 4.

Blumert Packing Company: *See*—
Blumert, Samuel L.

Blumert, Samuel L., doing business as Blumert Packing Company, Chicago, Ill. Smoked fish. Serial No. 500,940; Aug. 20. Class 46.

Brown, J. S., Jr., doing business as Distributors Company, New Iberia, La. Canned fruit juices. Serial No. 485,625; Aug. 20. Class 46.

Bugle Petroleum Products: *See*—
Beck, Charles A.

Chambers, Florence K., doing business as Ha-Grn-Co. Mfg. Co., Buffalo, N. Y. Chemical composition. Serial No. 497,984; Aug. 20. Class 6.

Chateau Gay, Ltd., Lewiston, N. Y. Champagne and sparkling Burgundy. Serial No. 497,069; Aug. 20. Class 47.

Chatham Pharmaceuticals, Inc., Newark, N. J. Ointments. Serial No. 482,414; Aug. 20. Class 6.

Chiris, Antoine, Company, Inc., New York, N. Y. Essential oil compounds; pomades; tinctures of ambergris, etc. Serial No. 498,581; Aug. 20. Class 6.

Consolidated Cigar Corporation, New York, N. Y. Cigars. Serial No. 487,994; Aug. 20. Class 17.

Cosmos International Corporation, New York, N. Y. Aqueous solutions of hematoporphyrin, Congo red, capsules of nitroglycerine preparations. Serial No. 499,207; Aug. 20. Class 6.

Cover Girl: *See*—
Revoc, Inc.

Darden, George O., doing business as Darnoid, Chicago, Ill. Toilet preparations. Serial No. 493,594; Aug. 20. Class 6.

Darnoid: *See*—
Darden, George O.

Decorite, Inc., Atlanta, Ga. Mouldings. Serial No. 497,995; Aug. 20. Class 12.

Distributors Company: *See*—
Brown, J. S., Jr.

Donna Lo Laboratories, Inc., St. Louis, Mo. Bath soap and toilet soap. Serial No. 495,728; Aug. 20. Class 4.

Echols, John A., San Antonio, Tex. Frozen custard and ice cream. Serial No. 495,658; Aug. 20. Class 46.

Elsa Canning Company: *See*—
Roettele, Carl A.

Even-Pul Foundations, Inc., New York, N. Y. Brassières and bandeaux. Serial Nos. 494,963–4; Aug. 20. Class 39.

Federal Auto Products Company, Chicago, Ill. Hand pump for bicycles and automobile tires. Serial No. 497,853; Aug. 20. Class 23.

Fisba Handkerchiefs: *See*—
Fischbacher, Christian H.

Fischbacher, Christian H., doing business as Fisba Handkerchiefs, New York, N. Y. Handkerchiefs. Serial No. 494,599; Aug. 20. Class 39.

Forcherio Hermanos, Buenos Aires, Argentina. Confections. Serial No. 484,564; Aug. 20. Class 46.

Franek, Eugene P., doing business under the name of Franek's Wholesale Liquor, New Orleans, La. Wine. Serial No. 500,070; Aug. 20. Class 47.

Franek's Wholesale Liquor: *See*—
Franek, Eugene P.

Fregman Manufacturing Company, Sturgis, Mich. Ladies' girdles and pantie girdles. Serial No. 494,497; Aug. 20. Class 39.

Gibson, C. Rex, doing business as Gibson Company, Harlan, Iowa. Bowl containing seeds, growing material and plant food, etc. Serial No. 496,232; Aug. 20. Class 50.

Gibson Company: *See*—
Gibson, C. Rex.

Golden Arrow Toiletries, New York, N. Y. Face soaps, bath soaps, and shaving creams. Serial No. 495,467; Aug. 20. Class 4.

Graham Chemical Company, Jamaica, N. Y. Dental medicament. Serial No. 491,972; Aug. 20. Class 6.

Growers Service and Supply Company, Yakima, Wash. Fertilizers. Serial No. 486,617; Aug. 20. Class 10.

Ha-Grn-Co. Mfg. Co.: *See*—
Chambers, Florence K.

Hershman Musical Instrument Co.: *See*—
Hershman, Samuel.

Hershman, Samuel, doing business as Hershman Musical Instrument Co., New York, N. Y. Musical instruments. Serial No. 493,958; Aug. 20. Class 36.

Hess, Dr., & Clark, Inc., Ashland, Ohio. Preparation for the treatment of internal disorders of stock. Serial No. 496,624; Aug. 20. Class 6.

Invicta-Seeland, Inc., New York, N. Y. Watches and clocks. Serial No. 467,974; Aug. 20. Class 27.

Johnson & Co., Cornelia, Ga. Poultry tonic and conditioner, an ointment or salve. Serial No. 492,773; Aug. 20. Class 6.

Johnson-March Corporation, The, New York, N. Y. Cleaner for metal. Serial No. 494,075; Aug. 20. Class 4.

Kellogg Switchboard and Supply Company, Chicago, Ill. Extensible electrical cords. Serial No. 497,544; Aug. 20. Class 21.

King, Stephen B., & Son Co., Milwaukee, Wis. Paint. Serial No. 492,323; Aug. 20. Class 16.

Klenzade Products, Incorporated, Beloit, Wis. Preparation for cleaning by hand in dairies and industrial establishments. Serial No. 493,604; Aug. 20. Class 4.

Laister-Kauffman Aircraft Corporation, St. Louis, Mo. Glider planes. Serial No. 489,914; Aug. 20. Class 19.

Lastikpli Laboratories: *See*—
Plastikpli Laboratories, Inc.

Lee Rubber & Tire Corporation, Youngstown, Ohio. Gasoline hose, distillate hose, tank wagon hose, etc. Serial No. 480,597; Aug. 20. Class 35.

Madam Jones Co.: *See*—
Valmor Products Co.

Marathon Company, Attleboro, Mass. Jewelry for personal adornment, not including watches. Serial No. 498,427; Aug. 20. Class 28.

Maskuline Underwear Co., Inc. New York, N. Y. Men's and boys' shirts, sport jackets, pajamas, etc. Serial No. 493,373; Aug. 20. Class 39.

Mectron Corporation, Lawrence, Mass. Electronic devices and equipment. Serials Nos. 488,968–9; Aug. 20. Class 21.

Mem Company, New York, N. Y. Soaps. Serial No. 491,039; Aug. 20. Class 4.

Meyers, Louis G., doing business as Alpha-Craft Company, New York, N. Y. Costume jewelry. Serial No. 494,915; Aug. 20. Class 28.

Michael-Leonard Co., Sioux City, Iowa. Cornseed. Serial No. 494,757; Aug. 20. Class 1.

Monsanto Chemical Company, St. Louis, Mo. Chemical products. Serial No. 498,355; Aug. 20. Class 6.

Mont-O-Min Sales Comp.: *See*—
Mont-O-Min Sales Corporation.

Mont-O-Min Sales Corporation, Oakland, Calif., also trading as Mont-O-Min Sales Comp. Vitamin and mineral capsules and tablets. Serial No. 496,392; Aug. 20. Class 6.

Mukamal Company, New York, N. Y. Cigarette papers. Serial No. 492,076; Aug. 20. Class 8.

Multifax Enterprises, Limited, Toronto, Ontario, Canada. Detergent in powdered form. Serial No. 492,942; Aug. 20. Class 4.

National Lock Company, Rockford, Ill. Latches and catches. Serial No. 493,276; Aug. 20. Class 25.

New York Knitting Mills, New York, N. Y. Knitted outerwear. Serial No. 491,113; Aug. 20. Class 39.

Oakes & Company, Chicago, Ill. Inlaid linoleum rugs and inlaid linoleum, composition floor covering, etc. Serial No. 498,921; Aug. 20. Class 20.

Perlman, Hy, & Co., New York, N. Y. Ladies' underwear. Serial No. 491,883; Aug. 20. Class 39.

Plastikpli Laboratories, Inc., doing business as Lastikpli Laboratories, Chicago, Ill. Ready-mixed paint, varnish, paint enamel, etc. Serial No. 495,498; Aug. 20. Class 16.

Rapid-Titan Mfg. Co., Grand Rapids, Mich. C-type clamps. Serial No. 493,824; Aug. 20. Class 23.

Revoc, Inc., doing business as Cover Girl, New York, N. Y. Waste baskets, boxes made of paper, cardboard, leather, or plastic material. Serial No. 488,369; Aug. 20. Class 2.

Roettele, Carl A., doing business as Elsa Canning Company, Elsa, Tex. Canned tomatoes and canned tomato juice. Serial No. 499,013; Aug. 20. Class 46.

Roettele, Carl A., doing business as Elsa Canning Company, Elsa, Tex. Canned tomatoes, canned tomato purée, canned grapefruit juice. Serial No. 499,014; Aug. 20. Class 46.

Rototiller Inc., Troy, N. Y. Soil tilling and cultivating machines. Serial No. 497,498; Aug. 20. Class 23.

Russell-Newman Manufacturing Company, Denton, Tex. Women's and children's panties, vests, bloomers, etc. Serial No. 495,763; Aug. 20. Class 39.

Schauer Machine Company, Cincinnati, Ohio. Copper oxide type dry rectifiers and selenium type dry rectifiers. Serial No. 497,680; Aug. 20. Class 21.

Selby, Battersby & Co., Philadelphia, Pa. Floor wax. Serial No. 494,131; Aug. 20. Class 16.

Serolite Company, The, New York, N. Y. Pen desk sets and memorandum pad holders. Serial No. 478,691; Aug. 20. Class 37.

Shaw, H. E., Company, Worcester, Mass. Candies. Serial No. 488,056; Aug. 20. Class 46.

Shaw, H. E., Company, Worcester, Mass. Cigars, cigarettes, and smoking tobacco. Serial No. 495,427; Aug. 20. Class 17.

Smith, Esther, Cleveland, Ohio. Hair oils, hair growth stimulators and lotions. Serial No. 479,904; Aug. 20. Class 6.

Snyder, Floyd, Cincinnati, Ohio. Smokers' pipes. Serial No. 494,370; Aug. 20. Class 8.

Spencer Kellogg and Sons, Inc., Buffalo, N. Y. Linseed oil. Serial No. 485,412; Aug. 20. Class 16.

Spiegel, Inc., Chicago, Ill. Wax. Serial No. 490,465; Aug. 20. Class 16.

Stindro Manufacturing Company: *See*—
Stinne, Leslie W.

Stinne, Leslie W., doing business as Stindro Manufacturing Company, Dallas, Tex. Clothespins. Serial No. 482,223; Aug. 20. Class 24.

Switzer Brothers, Cleveland, Ohio. Embalming fluids. Serial No. 491,598; Aug. 20. Class 6.

Utica Knitting Company, Utica, N. Y. Underwear. Serial No. 491,901; Aug. 20. Class 39.

Valley Dehydrating Co., Kingsburg, Calif. Concentrated hog feed. Serial No. 497,354; Aug. 20. Class 46.

Valmor Products Co., doing business as Madam Jones Co., Chicago, Ill. Hair preparation. Serial No. 492,751; Aug. 20. Class 6.

Vapor Engineering Corporation, Los Angeles, Calif. Degreasing solvent. Serial No. 498,330; Aug. 20. Class 6.

Verney Fabrics Corporation, New York, N. Y. Piece goods of rayon fibres, cotton, wool, etc. Serial No. 483,394; Aug. 20. Class 42.

Visking Corporation, The, Chicago, Ill. Monofilaments made from polymeric vinylidene chloride and copolymers. Serial No. 487,534; Aug. 20. Class 1.

Vitamins & Pharmaceuticals, Inc., Dover, Del. Calcium ascorbate acetylsalicylate with vitamin K. Serial No. 496,598; Aug. 20. Class 6.

Watco Engineering, Inc., Cleveland, Ohio. Fluorescent lighting fixtures. Serial No. 490,866; Aug. 20. Class 21.

Western Auto Supply Company, Kansas City, Mo. Power driven mechanical washers and ironers. Serial No. 487,653; Aug. 20. Class 24.

Wheeler Shipbuilding Corporation, Whitestone, Long Island, N. Y. Motor boats, power boats, and the like. Serial No. 497,152; Aug. 20. Class 19.

Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate bars. Serial No. 483,297; Aug. 20. Class 46.

Wilson's, Williams M., Sons, Inc., Lansdale, Pa. Gasoline self-measuring pumps. Serial Nos. 495,119–20; Aug. 20. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

Affiliated Products, Inc.: *See*—
Impression Products.

Aiken Stores Inc., New York, N. Y. Women's, misses', and children's coats, dresses, suits, etc. 423,180; Aug. 20. Class 39.

Ajax-Consolidated Company, Chicago, Ill. Venetian blinds. 423,132; Aug. 20. Class 32.

Allen, Paul E., Skokie, Ill. Toy rattles. 423,113; Aug. 20. Class 22.

Allen, Paul E., Chicago, Ill. Toy rattles. 423,148; Aug. 20. Class 22.

Aloff, Alexander, doing business as Chicago Packing Company, Chicago, Ill. Smoked dried boneless fish. 423,146; Aug. 20. Class 46.

Alpha-Craft Company: *See*—
Meyers, Louis G.

Alvaro, D., Inc., Brooklyn, N. Y. Ready-made sandwiches. 423,125; Aug. 20. Class 46.

American Aniline Products, Inc., New York, N. Y. Dyestuffs. 422,932; Aug. 20; Serial No. 480,885; published May 7, 1946. Class 6.

American Aniline Products, Inc., New York, N. Y. Metalized and chromiferous dyestuffs. 423,085; Aug. 20; Serial No. 495,208; published May 14, 1946. Class 6.

American Cyanamid Company, New York, N. Y. Synthetic finishing resins. 423,007; Aug. 20; Serial No. 490,412; published May 14, 1946. Class 6.

American Fork and Hoe Company, The: *See*—
Kelly Axe and Tool Company.

American Rolling Mill Company, The, Middletown, Ohio. Galvanized iron and steel sheets. 423,152; Aug. 20. Class 14.

Anderson, Russell M., Kansas City, Mo. Base metal shoe clamps. 423,183; Aug. 20. Class 50.

Armstrong Company, The, Detroit, Mich. Certain named cements and putties, caulking compounds, etc. 217,700; renewed Sept. 7, 1946. O. G. Aug. 20. Class 12.

Armstrong, D., & Co., Inc., Rochester, N. Y. Women's shoes. 215,605; renewed July 20, 1946. O. G. Aug. 20. Class 39.

Army and Navy Journal, Incorporated: *See*—
Church, W. C. & F. P., Incorporated.

Art-Craft Briar Pipe Co., Brooklyn, N. Y. Smoking pipes. 423,172–5; Aug. 20. Class 8.

Artype, Incorporated, Chicago, Ill. Transparent adhesive backed paper upon which is printed letters and numerals, etc. 423,122; Aug. 20. Class 38.

Associated Products, Inc., Chicago, Ill. Face powder, face makeup in liquid form, creams for the hands and face, etc. 422,988; Aug. 20; Serial No. 489,379; published May 14, 1946. Class 6.

Associated Products, Inc., Chicago, Ill. Face powder, face makeup in liquid form, creams for the hands and face, etc. 422,989; Aug. 20; Serial No. 489,381; published May 14, 1946. Class 6.

Associated Products, Inc., Chicago, Ill. Face powder, face makeup in liquid form, creams for the hands and face, etc. 423,038; Aug. 20; Serial No. 492,538; published May 14, 1946. Class 6.

Associated Products, Inc., Chicago, Ill. Face powder, face makeup, creams, etc. 423,044; Aug. 20; Serial No. 492,759; published May 7, 1946. Class 6.

Atlantic Refining Company, The, Philadelphia, Pa. Natural earth oil and grease adsorbents. 422,924; Aug. 20; Serial No. 479,325; published May 28, 1946. Class 1.

Bardon, Jack, doing business as Manhattan Jewelry Center, New York, N. Y. Jewelry. 423,138; Aug. 20. Class 28.

Barnet, J. S., & Sons, Incorporated, Lynn, Mass. Leather. 422,978; Aug. 20; Serial No. 488,444; published May 28, 1946. Class 1.

Ben-Hur Products, Inc.: *See*—
Joannes Corporation.

Benrus Watch Company, New York, N. Y. Watches. 423,110; Aug. 20. Class 27.

Bernard's, St. Louis, Mo. Ladies', misses', and juniors' dresses. 423,102; Aug. 20. Class 39.

Bio-Chemical Products Co.: *See*—
Hart, William J.

Bird-Archer Company, The, New York, N. Y. Chemical compounds. 50,995; re-renewed Apr. 3, 1946. O. G. Aug. 20. Class 6.

Blumenthal, B., & Co., Inc., New York, N. Y. Buttons and buckles. 423,160; Aug. 20. Class 40.

Blunden, Alfred G., London, England. Account books. 215,198; renewed July 13, 1946. O. G. Aug. 20. Class 37.

Bohn Aluminum and Brass Corporation: *See*—
Capitol Brass Works.

Bol, Ltd., New York, N. Y. Writing pens, pen points, and fountain pens. 422,996; Aug. 20; Serial No. 489,651; published May 28, 1946. Class 37.

Bone, William H., doing business as Crown Products Co., Douglas, Ga. Penetrating oils for lubricating purposes. 423,108; Aug. 20. Class 15.

Bonwit Teller, Inc., New York, N. Y. Perfumes. 422,933; Aug. 20; Serial No. 481,262; published May 14, 1946. Class 6.

Bonwit Teller, Inc., New York, N. Y. Perfumes and dusting powder. 422,934; Aug. 20; Serial No. 481,268; published May 7, 1946. Class 6.

Boon, W. J., & Company, to Promena Boon & Comp. C. V., Wormerveer, Netherlands. Chocolate confectionary. 212,173; renewed Apr. 27, 1946. O. G. Aug. 20. Class 46.

Borden Company, The: *See*—
Corno Mills Company, The.
Michigan Condensed Milk Co.

Borgfeldt, Geo., & Co., to Geo. Borgfeldt Corporation, New York, N. Y. Dolls. 216,200; renewed Aug. 3, 1946. O. G. Aug. 20. Class 22.

Borgfeldt, Geo., Corporation: *See*—
Borgfeldt, Geo., & Co.

Boucquey, Omer, St. Cloud, France. Children's magazines. 422,960; Aug. 20; Serial No. 488,505; published May 28, 1946. Class 38.

Brewer, Chas. A., & Sons, Chicago, Ill. Table mats or pads. 423,136; Aug. 20. Class 50.

Brody, Benjamin R., Los Angeles, Calif. Gloves, garment belts, and scarves for women and misses. 422,914; Aug. 20; Serial No. 474,021; published Jan. 30, 1945. Class 39.

Brown & Bigelow, St. Paul, Minn. Wall calendars, newspapers, price lists, etc. 217,752; renewed Sept. 7, 1946. O. G. Aug. 20. Class 38.

Buffington's Inc., Worcester, Mass. Eye lotion. 423,065; Aug. 20; Serial No. 494,020; published May 7, 1946. Class 6.

Buffington's Inc., Worcester, Mass. Medicinal throat lozenge. 423,066; Aug. 20; Serial No. 494,023; published May 7, 1946. Class 6.

Buoyant Upholstery Company Limited, The, Sandiacre, England, to The Buoyant Upholstery Company Limited, Sandiacre, Nottingham, England. Chairs, settees, couches, etc. 208,580; renewed Feb. 2, 1946. O. G. Aug. 20. Class 32.

Burg, Alfred D., doing business as The Calendar Guild, Minneapolis, Minn. Calendars. 422,926; Aug. 20; Serial No. 479,419; published May 7, 1946. Class 38.

Burke, Edward & John, Limited: *See*—
Cantrell & Cochrane, Ltd.
Cantrell & Cochrane Limited.

Business Publishers International Corporation, New York, N. Y. Monthly pharmaceutical publication. 423,184; Aug. 20. Class 38.

C-Z Chemical Company, Beloit, Wis. Furniture polish. 423,116; Aug. 20. Class 16.

Café Société Parfum Company, Milwaukee, Wis. Perfumes. 422,945–6; Aug. 20; Serial Nos. 483,894–5; published May 14, 1946. Class 6.

Calendar Guild, The: *See*—
Burg, Alfred D.

California Cooperative Packaging Association, Los Angeles, Calif. Fresh deciduous fruits and fresh vegetables. 423,047; Aug. 20; Serial No. 492,822; published May 28, 1946. Class 46.

Campbell, Joseph, Preserve Company, to Campbell Soup Company, Camden, N. J. Canned tomatoes and tomato extract. 28,162; re-renewed Apr. 21, 1946. O. G. Aug. 20. Class 46.

Campbell Soup Company: *See*—
Campbell, Joseph, Preserve Company.

Canandaigua Industries Co., Canandaigua, N. Y. Champagne and sparkling Burgundy wines. 423,022; Aug. 20; Serial No. 491,395; published May 7, 1946. Class 47.

Canandaigua Industries Co., Canandaigua, N. Y. Champagne. 423,023; Aug. 20; Serial No. 491,396; published May 7, 1946. Class 47.

Canepa, John B., Company, The, Chicago, Ill. Cereal paste goods (foods). 50,396; re-renewed Mar. 13, 1946. O. G. Aug. 20. Class 46.

Cantrell & Cochrane, Ltd., Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Long Island City, N. Y. Soda-water. 53,620; re-renewed June 5, 1946. O. G. Aug. 20. Class 45.

Cantrell & Cochrane Limited, Dublin, Ireland, and New York, N. Y., to Edward & John Burke, Limited, Long Island City, N. Y. Sarsaparilla. 55,235; re-renewed Aug. 7, 1946. O. G. Aug. 20. Class 45.

Capital City Dairy Company, The, to Capital City Products Co., The, Columbus, Ohio. Oleomargarine. 28,095; re-renewed Apr. 7, 1946. O. G. Aug. 20. Class 46.

Capital City Products Co., The: *See*—
Capital City Dairy Company, The.

Capitol Brass Works, to Bohn Aluminum and Brass Corporation, Detroit, Mich. Radiator valves, hot-water valves, steam valves, etc. 216,837; renewed Aug. 24, 1946. O. G. Aug. 20. Class 13.

Cardinell Products, Montclair, N. J. Protractors. 423,030; Aug. 20; Serial No. 491,749; published May 28, 1946. Class 26.

Carolina Baking Company, Charlotte, N. C., to Columbia Baking Company, Wilmington, Del. Bread. 213,361; renewed May 25, 1946. O. G. Aug. 20. Class 46.

Carroll, Charles, Company: *See*—
Carroll, Charles G.

Carroll, Charles G., doing business as Charles Carroll Company, Kansas City, Mo. Chili. 423,100; Aug. 20. Class 46.

Cary Maple Sugar Company, Inc., St. Johnsbury, Vt. Maple syrup. 423,190; Aug. 20. Class 46.

Cary Maple Sugar Company, Inc., St. Johnsbury, Vt. Maple sap syrup. 423,191; Aug. 20. Class 46.

Case, James L., doing business as Richards & Case, East Boston, Mass. Lotion for chapped hands, face and lips. 217,107; renewed Aug. 24, 1946. O. G. Aug. 20. Class 6.

Celanese Corporation of America, New York, N. Y. Sheets, films, foils, etc. 423,017; Aug. 20; Serial No. 490,997; published May 28, 1946. Class 1.

Century Metalcraft Corporation, Chicago, Ill. Frosted glassware. 423,150; Aug. 20. Class 33.

Certified Dry Mat Corporation, New York, N. Y. Matrix, dry mat, or board used in stereotyping and electrotyping. 423,155; Aug. 20. Class 50.

Chemas, Mike, Humboldt, Ariz. Pickled turnips. 217,760; renewed Sept. 7, 1946. O. G. Aug. 20. Class 46.

Chemical Foundation Incorporated, The: *See*—
Vereinigte Chininfabriken Zimmer & Co. Des mit Beschränkter Haftung.

Chem-Stamps, Bayonne, N. J. Rubber hand stamps bearing chemical indicia. 422,964; Aug. 20; Serial No. 486,191; published May 14, 1946. Class 37.

Chicago Mail Order Company, Chicago, Ill. Men's suits, hats, and outer shirts, and men's and boys' hosiery. 422,911; Aug. 20; Serial No. 471,657; published May 7, 1946. Class 39.

Chicago Packing Company: *See*—
Aloff, Alexander.

Children's Wish Manufacturing Co., Los Angeles, Calif. Children's paper place mats. 422,938; Aug. 20; Serial No. 483,567; published May 14, 1946. Class 37.

Church, W. C. & F. P., Incorporated, New York, N. Y., to Army and Navy Journal, Incorporated, Washington, D. C. Weekly newspaper. 49,503; re-renewed Feb. 6, 1946. O. G. Aug. 20. Class 38.

Churchill, Harold F., Company, Stockton, Calif. Frosen fresh deciduous friuts and vegetables. 423,201; Aug. 20. Class 46.

Clark & Clark, Wenonah, N. J. Combinations of B-complex vitamins and ascorbic acid. 422,968; Aug. 20; Serial No. 487,355; published May 7, 1946. Class 6.

Cleveland Heater Company, The, to The Patrol Valve Company, Cleveland, Ohio. Hot-water heaters, water-storage heaters, gas heating systems, etc. 214,345; renewed June 22, 1946. O. G. Aug. 20. Class 34.

Coe, W. H., Manufacturing Company, Providence, R. I. Package rolls of gold, silver, aluminum, etc. 51,575; re-renewed Apr. 17, 1946. O. G. Aug. 20. Class 14.

Cohan, William, Chicago, Ill. Slippers. 423,057; Aug. 20; Serial No. 493,428; published May 28, 1946. Class 39.

Cole Chemical Company, St. Louis, Mo. Pharmaceutical preparation. 423,071; Aug. 20; Serial No. 494,309; published May 14, 1946. Class 6.

Cole, Rex, Inc., Long Island City, N. Y. Electric clocks. 423,082; Aug. 20; Serial No. 495,013; published May 28, 1946. Class 27.

Collett, J., Limited, London, England. Ladies' hats. 423,026; Aug. 20; Serial No. 491,548; published May 28, 1946. Class 39.

Colortop Manufacturing Co.: *See*—
Periolat, Charles B.

Columbia Baking Company: *See*—
Carolina Baking Company.

Columbus Vaccine Company: *See*—
Terry, Robert W.

Compañia Cubana de Alcohol, S. A., Santa Cruz Del Norte and Habana, Cuba. Rum, gin, whiskey, etc. 422,910; Aug. 20; Serial No. 470,486; published May 7, 1946. Class 49.

Coneley, R. D., doing business as Man-O-War Remedy Company, assignor to Man-O-War Remedy Company, Lima, Pa. Counterirritant for use on horses. 423,073; Aug. 20; Serial No. 494,427; published May 14, 1946. Class 6.

Consolidated Battery Company, Buffalo, N. Y., and Philadelphia, Pa., to National Battery Company, St. Paul, Minn. Electric batteries. 214,614; renewed June 29, 1946. O. G. Aug. 20. Class 21.

Consolidated Cosmetics, Chicago, Ill. Face powder, dusting powder, and perfume. 423,001; Aug. 20; Serial No. 489,715; published May 14, 1946. Class 6.

Consolidated Grocers Corporation: *See*—
Staples Grocery Company, Inc., The

Continental Optical Company, Inc., Indianapolis, Ind. Reading glasses. 423,176; Aug. 20. Class 26.

Cooke, Ann B., Stowe, Vt. Sweaters, hoods, stockings, etc. 423,031; Aug. 20; Serial No. 491,751; published May 28, 1946. Class 39.

Corno Mills Company, The, St. Louis, Mo., to The Borden Company, New York, N. Y. Stock and poultry feed. 212,771; renewed May 11, 1946. O. G. Aug. 20. Class 46.

Crown Products Co.: *See*—
Bone, William H.

Cuesta, Rey and Company, Tampa, Fla. Cigars. 217,178; renewed Aug. 24, 1946. O. G. Aug. 20. Class 17.

Curtis Foundations, New York, N. Y. Ladies' foundation garments. 423,157; Aug. 20. Class 39.

Curtis & Marble Machine Company, Worcester, Mass. Pickers and burring machines and attachments and parts thereof, etc. 49,945; re-renewed Feb. 27, 1946. O. G. Aug. 20. Class 23.

Curtis & Marble Company, Worcester, Mass. Pickers and burring-machines and attachments and parts thereof, etc. 49,967; re-renewed Feb. 27, 1946. O. G. Aug. 20. Class 23.

Da Capo Music Publishing Corporation, New York, N. Y. Musical magazine. 423,143; Aug. 20. Class 38.

Dache, Lilly, Inc., New York, N. Y. Ladies' hats. 423,127; Aug. 20. Class 39.

Dalton Products Company: *See*—
Moses, Philip G.

De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif. Brandy. 422,997; Aug. 20; Serial No. 489,657; published May 28, 1946. Class 49.

De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif. Wines. 422,998 Aug. 20; Serial No. 489,658; published May 28, 1946. Class 47.

De Medicis, Marie, Company: *See*—
Lerner, Michael M.

Diamond T Preserving Co., Los Angeles, Calif. Bottled fruit juice and pulp. 423,048; Aug. 20; Serial No. 492,825; published May 21, 1946. Class 46.

Dietzgen, Eugene, Co., Chicago, Ill. Drafting material and supplies. 422,942; Aug. 20; Serial No. 483,813; published May 21, 1946. Class 37.

Doehler-Jarvis Corporation, New York, N. Y. Metal castings. 423,118 Aug. 20. Class 14.

Douglas Aircraft Company, Inc., Santa Monica, Calif. Books, pamphlets, brochures, etc. 423,091; Aug. 20. Class 38.

Duffy-Mott Company, Inc., New York, N. Y. Ciders. 217,916; renewed Sept. 14, 1946. O. G. Aug. 20. Class 45.

Durkee, E. R., & Co.: *See*—
Durkee, Eugene W.

Durkee, Eugene W., doing business as E. R. Durkee & Co., Elmhurst, N. Y., to Glidden Company, The, Cleveland, Ohio. Birdseed. 217,283; renewed Aug. 31, 1946. O. G. Aug. 20. Class 46.

Dutton, E. W.: *See*—
Dutton, E. W., Inc.

Dutton, E. W., Inc., to E. W. Dutton, New York, N. Y. Artificial silk waste. 214,397; renewed June 22, 1946. O. G. Aug. 20. Class 1.

Earle-Chesterfield Mill Company, Asheville, N. C. Stock and poultry feed. 423,158; Aug. 20. Class 46.

East Jordan Canning Company, East Jordan, Mich. Canned fruits and canned vegetables. 423,156; Aug. 20. Class 46.

Edroy Products Company: *See*—
Herbert, Edward J.

Elco Distributing Co., Chicago, Ill., to Many, Blanc & Co., Inc., New York, N. Y. Malt sirup. 211,396; renewed Apr. 13, 1946. O. G. Aug. 20. Class 46.

Eley Brothers Limited, London, to I. C. I. Metals Limited, Slough, Buckinghamshire, England. Percussion-caps. 53,747; re-renewed June 12, 1946. O. G. Aug. 20. Class 9.

Endicott Johnson Corporation, Endicott, N. Y. Leather and rubber boots and shoes. 215,664; renewed July 20, 1946. O. G. Aug. 20. Class 39.

Engel, Jane, Inc., New York, N. Y. Women's dresses, suits, outer skirts, etc. 423,140; Aug. 20. Class 39.

Ernstberger, H.: *See*—
Ernstberger, H., & Co.

Ernstberger, H., Co.: *See*—
Ernstberger, H., & Co.

Ernstberger, H., & Co., to H. Ernstberger, doing business as H. Ernstberger Co., New York, N. Y. Fabrics made out of artificial silk (rayon) and cotton. 211,002; renewed Mar. 30, 1946. O. G. Aug. 20. Class 42.

F-R Publishing Corporation, The, New York, N. Y. Humorous magazine column. 423,106–7; Aug. 20. Class 38.

F-R Publishing Corporation, The, New York, N. Y. Magazine column. 423,196–8; Aug. 20. Class 38.

Farber, Herman, New York, N. Y. Correspondence cards. 423,177; Aug. 20. Class 37.

Farris, Edmond J., Bristol, Pa. Cartoon feature. 423,115; Aug. 20. Class 38.

Feather Ride, Inc., Portland, Oreg. Trailers, structural parts for trailers and trucks, single-axle and tandem-axle semi-trailers, etc. 423,081; Aug. 20; Serial No. 494,966; published May 28, 1946. Class 19.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 422,975; Aug. 20; Serial No. 488,083; published May 14, 1946. Class 1.

Ferry-Morse Seed Co., San Francisco, Calif. Grass seed. 423,005; Aug. 20; Serial No. 490,302; published May 28, 1946. Class 1.

Fine Products Corporation: *See*—
Nunnally Company, The.

Firestone Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and tubes. 423,139; Aug. 20. Class 35.

Fisher, Bernard B., New York, N. Y. Watches, clocks, and parts thereof. 423,072; Aug. 20; Serial No. 494,317; published May 28, 1946. Class 27.

Fisher, Nath'l, & Co., New York, N. Y. Shoes and slippers. 217,762; renewed Sept. 7, 1946. O. G. Aug. 20. Class 39.

Flex-O-Glass Manufacturing Co.: *See*—
Warp, Harold.

Fluegelman, N., & Co., Inc., New York, N. Y. Fabric of silk and cotton. 208,689; renewed Feb. 9, 1946. O. G. Aug. 20. Class 42.

Foster-McClellan Company, to Foster-McClellan Company, Buffalo, N. Y. Ointments. 53,075; re-renewed May 22, 1946. O. G. Aug. 20. Class 6.

Foster-Milburn Company, Buffalo, N. Y. Oil for external and internal use. 56,208; re-renewed Sept. 4, 1946. O. G. Aug. 20. Class 6.

Frederick-Speier Footwear Inc., Norwalk, Conn., and New York, N. Y. Ladies' and misses' shoes and slippers. 423,111; Aug. 20. Class 39.

French, Samuel H., Paint Company, Philadelphia, Pa. Paint enamels. 422,940; Aug. 20; Serial No. 483,723; published May 14, 1946. Class 16.

Fritts, Donald E., doing business as Plastic Center Co., San Francisco, Calif. Plastic treated wood. 422,919; Aug. 20; Serial No. 477,189; published May 7, 1946. Class 1.

Futter, Carl A., Chicago, Ill. Soap. 423,039; Aug. 20; Serial No. 492,555; published May 7, 1946. Class 4.

Gaines, M. Charles, New York, N. Y. Cartoon periodical. 423,164; Aug. 20. Class 38.

Gates, Mills & Driscoll, Inc., to Gates-Mills, Inc., Johnstown, N. Y. Gloves. 211,828; renewed Apr. 20, 1946. O. G. Aug. 20. Class 39.

Gates-Mills, Inc.: *See*—
Gates, Mills & Driscoll, Inc.

General Aniline & Film Corporation, New York and Binghamton, N. Y. Periodicals. 422,973; Aug. 20; Serial No. 487,676; published May 28, 1946. Class 38.

General Hosiery Company, Fort Wayne, Ind., to Gotham Hosiery Company, Inc., New York, N. Y. Hosiery. 217,612; renewed Sept. 7, 1946. O. G. Aug. 20. Class 39.

General Hosiery Company, Fort Wayne, Ind., to Gotham Hosiery Company, Inc., New York, N. Y. Hosiery. 217,773; renewed Sept. 7, 1946. O. G. Aug. 20. Class 39.

Glidden Company, The: *See*—
Durkee, Eugene W.

Gluvsilk Undergarment Co. Inc., to Gluvtex Corporation, New York, N. Y. Silk underwear and gloves of leather, rubber, fabric, etc. 212,052; renewed Apr. 27, 1946. O. G. Aug. 20. Class 39.

Gluvtex Corporation: *See*—
Gluvsilk Undergarment Co. Inc.

Goddards, Ltd., St. Thomas, V. I. Rum. 423,087; Aug. 20; Serial No. 495,604; published May 21, 1946. Class 49.

Golden Arrow Toiletries, New York, N. Y. Perfumes, eau de toilette, eau de cologne, et al. 423,013; Aug. 20; Serial No. 490,813; published May 7, 1946. Class 6.

Golden Nugget Sweets Ltd., San Francisco, Calif. Chocolate coated candy bars. 422,918; Aug. 20; Serial No. 476,206; published May 14. Class 46.

Goldstein Millinery Company, Chicago, Ill. Ladies' hats. 423,147; Aug. 20. Class 39.

Goodman Chemical Co., The, Brooklyn, N. Y. Talcum powder. 423,074; Aug. 20; Serial No. 494,442; published May 7, 1946. Class 6.

Goodrich, B. F., Company, The: *See*—
Philadelphia Rubber Works Company, The.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Sheet material. 422,961; Aug. 20; Serial No. 485,992; published May 21, 1946. Class 50.

Goodrich, G. A., Company: *See*—
Mother Hubbard Products Co.

Goodyear Rubber Company, The: *See*—
Goodyear Rubber Company.

Goodyear Rubber Company, New York, N. Y., to Goodyear Rubber Company, The, Middletown, Conn. Rubber boots and rubber shoes. 54,709; re-renewed June 26, 1946. O. G. Aug. 20. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Film for wrapping, and packaging in rolls and/or sheets. 422,922; Aug. 20; Serial No. 479,120; published May 7, 1946. Class 37.

Goff, S. B., & Sons Co., Camden, N. J., to Kemp and Lane, Inc., Le Roy, N. Y. Purely vegetable compound recommended as a tonic. 215,675; renewed July 20, 1946. O. G. Aug. 20. Class 6.

Goff, S. B., & Sons Co., Camden, N. J., to Kemp and Lane, Inc., Le Roy, N. Y. White pine and tar compound, bitters, cough syrup, etc. 216,763; renewed Aug. 17, 1946. O. G. Aug. 20. Class 6.

Gorham Manufacturing Company, Providence, R. I. Leather purses and hand-bags. 54,036; re-renewed June 19, 1946. O. G. Aug. 20. Class 3.

Gorham Manufacturing Company, Providence, R. I. Umbrellas and parasols. 54,077; re-renewed June 19, 1946. O. G. Aug. 20. Class 41.

Gotham Hosiery Company, Inc.: *See*—
General Hosiery Company.

Grace Bros. Brewing Co., Santa Rosa, Calif. Beer and like cereal malt beverages. 422,935; Aug. 20; Serial No. 481,407; published May 7, 1946. Class 48.

Grombach, A. O., doing business as Robert Hilton Company, Chicago, Ill. Collapsible clothes drying rack. 423,032; Aug. 20; Serial No. 491,827; published May 21, 1946. Class 24.

Grosse Pointe Flour Company, Grosse Pointe, Mich. Wheat flour. 423,060; Aug. 20; Serial No. 493,564; published May 21, 1946. Class 46.

Gutman, Carl, & Co., New York, N. Y. Men's undershirts and undershorts. 423,178; Aug. 20. Class 39.

Hadert, Albert J., doing business as Tredah Company, Fort Wayne, Ind. Toilet paper. 423,002; Aug. 20; Serial No. 490,117; published May 7, 1946. Class 37.

Hair Research Laboratories Products Company, New York, N. Y. Hair cream. 423,075; Aug. 20; Serial No. 494,604; published May 7, 1946. Class 6.

Hall, Ernest B.: *See*—
Hall, Ernest W.

Hall, Ernest W., to Ernest B. Hall, doing business as Ernest W. Hall, St. Louis, Mo. Remedy for kidney and bladder troubles and rheumatic troubles. 46,644; re-renewed Sept. 26, 1945. O. G. Aug. 20. Class 6.

Hammer Dry Plate Company, to Hammer Dry Plate & Film Company, St. Louis, Mo. Photographic dry plates. 50,931; re-renewed Apr. 3, 1946. O. G. Aug. 20. Class 26.

Hammer Dry Plate & Film Company: *See*—
Hammer Dry Plate Company.

Hanan & Son, Brooklyn, to Hanan & Son, Inc., New York, N. Y. Leather and cloth boots, shoes, and slippers. 50,970; re-renewed Apr. 3, 1946. O. G. Aug. 20. Class 39.

Hanan & Son, Inc.: *See*—
Hanan & Son.

Harris, Walter P., doing business as Walter P. Harris & Co., New York, N. Y. Hosiery. 423,194; Aug. 20. Class 39.

Harris, Walter P., & Co.: *See*—
Harris, Walter P.

Harrison, Robert, New York, N. Y. Pictorial periodical. 423,009; Aug. 20; Serial No. 490,658; published May 28, 1946. Class 38.

Hart, William J., doing business as Bio-Chemical Products Co., Cleveland, Ohio. Estrogenic hormone cream. 423,076; Aug. 20; Serial No. 494,841; published May 14, 1946. Class 6.

Hassendeubel Grocery Company, The, St. Louis, Mo. Certain named canned berries, fruits, vegetables, etc. 216,053; renewed Aug. 3, 1946. O. G. Aug. 20. Class 46.

Hassendeubel Grocery Company, St. Louis, Mo. Certain named canned berries, fruits, vegetables, etc. 217,683; renewed Sept. 7, 1946. O. G. Aug. 20. Class 46.

Hausman, M., & Co., New York, N. Y. Resin used in conjunction with musical instruments. 423,200; Aug. 20. Class 36.

Hearn Department Stores, Inc., New York, N. Y. Men's coats. 423,134; Aug. 20. Class 39.

Hearn Department Stores, Inc., New York, N. Y. Men's suits. 423,135; Aug. 20. Class 39.

Heiman, H., Company: *See*—
Heiman, Henry.

Heiman Henry, doing business as H. Heiman Company, New York, N. Y. Syrups and flavoring extracts. 422,956; Aug. 20; Serial No. 485,343; published May 28, 1946. Class 45.

Herbert, Edward J., doing business as Edroy Products Company, New York, N. Y. Chemical for treating photographic transparencies. 423,064; Aug. 20; Serial No. 493,925; published May 7, 1946. Class 6.

Herrmann Bros. Company to Edward J. Herrmann, doing business as Herrmann Bros. Company, Detroit, Mich. Malt sirups. 217,684; renewed Sept. 7, 1946. O. G. Aug. 20. Class 48.

Herrmann, Edward J.: *See*—
Herrmann Bros. Company.

Hi-Honored Diamond Corp., Binghamton, N. Y. Diamonds. 423,041; Aug. 20; Serial No. 492,628; published May 21, 1946. Class 28.

Hillerich & Bradsby Co., Louisville Ky. Golf clubs and golf balls. 215,239; renewed July 13, 1946. O. G. Aug. 20. Class 22.

Hillerich & Bradsby Co., Louisville, Ky. Golf clubs and golf balls. 215,563; renewed July 20, 1946. O. G. Aug. 20. Class 22.

Hilton, Robert, Company: *See*—
Grombach, A. O.

Hofheimer Brothers Company, to Hofheimer's Inc. Norfolk, Va. Shoes. 205,474; renewed Nov. 10, 1945. O. G. Aug. 20. Class 39.

Hofheimer's Inc.: *See*—
Hofheimer Brothers Company.

Hogshead Chemical Corporation, Norfolk, Va. Pharmaceutical preparation. 422,970; Aug. 20; Serial No. 487,367; published May 14, 1946. Class 6.

Holmes-Darst Coal Corporation, Knoxville, Tenn. Coal. 423,033; Aug. 20; Serial No. 491,833; published May 21, 1946. Class 1.

Hoover Company, The, North Canton, Ohio. Electric suction sweepers. 216,287; renewed Aug. 10, 1946. O. G. Aug. 20. Class 21.

Houbigant, Inc., New York, N. Y. Lipsticks, perfumes rouges, etc. 422,987; Aug. 20; Serial No. 489,264; published May 7, 1946. Class 6.

Hug, Ludwig F., New York, N. Y. Woolens—piece goods. 217,556; renewed Sept. 7, 1946. O. G. Aug. 20. Class 42.

Hunt Brothers Packing Company, San Francisco, Calif., now by change of name Hunt Foods, Inc. Canned fruits, canned fruit juices for food purposes, canned fish, etc. 423,128; Aug. 20. Class 46.

Hunt Foods, Inc.: *See*—
Hunt Brothers Packing Company.

Huston, Tom, doing business as Tuff Stuff Insecticides, Miami, Fla. Insecticides. 423,043; Aug. 20; Serial No. 492,709; published May 14, 1946. Class 6.

Hydril Corporation, Los Angeles, Calif. Metallic pipe-joints. 422,958; Aug. 20; Serial No. 485,773; published May 21, 1946. Class 13.

Hynson, Westcott & Dunning, to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Antiseptics, germicides, and bactericides. 215,543; renewed July 20, 1946. O. G. Aug. 20. Class 6.

Hynson, Westcott & Dunning, Incorporated: *See*—
Hynson, Westcott & Dunning.

I. C. I. Metals Limited: *See*—
Eley Brothers Limited.

Imel, Frank L., Portland, Oreg. Canned chicken tamales, canned chili with spaghetti, and canned noodles with chicken gravy. 423,179; Aug. 20. Class 46.

Impression Products, Chicago, Ill., assignor to Affiliated Products, Inc., Jersey City, N. J. Lipstick, rouge, face powder, etc. 422,920; Aug. 20; Serial No. 477,931; published Apr. 10, 1945. Class 6.

Industria Marmellate E Conserve Alimentari, Voghera, Italy. Preserved fruits. 210,059; renewed May 9, 1946. O. G. Aug. 20. Class 46.

Ingraham, E., Company, The, Bristol, Conn. Clocks. 423,034; Aug. 20; Serial No. 491,837; published May 7, 1946. Class 27.

International Paper Company, to International Paper Company, New York, N. Y. Book-paper, news-paper, wrapping-paper etc. 50,974; re-renewed Apr. 3, 1946. O. G. Aug. 20. Class 37.

Interstate Specialties Company: *See*—
Moses, Philip G.

Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 423,062; Aug. 20; Serial No. 493,686; published May 14, 1946. Class 39.

Irresistible, Inc., New York, N. Y. Men's cologne. 423,089; Aug. 20; Serial No. 496,082; published May 7, 1946. Class 6.

Irwin Corporation, New York, N. Y. Plastic cigarette package containers. 422,928; Aug. 20; Serial No. 480,322; published May 28, 1946. Class 8.

Jablow, I., and Company: *See*—
May, Lee J.

Janes Art Studios, Inc., Rochester, N. Y. Greeting cards. 423,010; Aug. 20; Serial No. 490,661; published May 28, 1946. Class 38.

Joannes Corporation, to Ben-Hur Products, Inc., Los Angeles, Calif. Coffee, tea, flavoring extract for foods, etc. 216,986; renewed Aug. 24, 1946. O. G. Aug. 20. Class 46.

Johnston, Loreene, Cleveland, Ohio. Hair shampoo. 423,079; Aug. 20; Serial No. 494,910; published May 14, 1946. Class 6.

Jordan R. M., and Company, Providence, R. I. Jewelry. 422,947; Aug. 20; Serial No. 484,258; published May 28, 1946. Class 28.

KKK Medicine Company, Keokuk, Iowa. Food flavoring extracts. 213,569; renewed June 1, 1946. O. G. Aug. 20. Class 46.

Kadison, Elliot, Detroit, Mich. Corsets and brassières. 423,103; Aug. 20. Class 39.

Kalart Company Inc., The, Stamford, Conn. Magazines and promotional literature. 422,990; Aug. 20; Serial No. 489,465; published May 28, 1946. Class 38.

Kanner, Joseph, Hat Co., Inc., South Norwalk, Conn. Men's hats. 423,055–6; Aug. 20; Serial Nos. 493,362–3; published May 28, 1946. Class 39.

Kassaps, Savas, doing business as Yankee Food Company, Mount Lebanon, Pa. Flavoring and seasoning sauces. 423,059; Aug. 20; Serial No. 493,493; published May 21, 1946. Class 46.

Kayser, Julius, & Co., New York, N. Y. Hosiery, gloves, ladies' underwear, etc. 422,931; Aug. 20; Serial No. 478,818; published May 28, 1946. Class 39.

Kelly Axe and Tool Company, Charleston, W. Va., to The American Fork and Hoe Company, Cleveland, Ohio. Axes and hatchets. 210,847; renewed Mar. 23; O. G. Aug. 20. Class 23.

Kemp and Lane, Inc.: *See*—
Goff, S. B., & Sons Co.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Metallic pulley covers, and hand or pneumatically operated valves. 422,954; Aug. 20; Serial No. 485,285; published May 28, 1946. Class 13.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Timing apparatus. 422,955; Aug. 20; Serial No. 485,292; published May 28, 1946. Class 26.

Klatsko, Arnold, doing business as Klatt, Arnold J., New York, N. Y. Robes and negligees. 423,165; Aug. 20. Class 39.

Klatt, Arnold J.: *See*—
Klatsko, Arnold.

Kleen Manufacturing Company: *See*—
Rosen, Emanuel.

Klenzade Products, Incorporated, Beloit, Wis. Detergent or washing compound. 423,189; Aug. 20. Class 4.

Krowwen Coats, New York, N. Y. Removable fur linings. 423,163; Aug. 20. Class 39.

Kunzel, Eric W., Santa Ana, Calif. Mechanically grooved phonograph records. 423,119; Aug. 20. Class 36.

Kurtz Bros., Clearfield, Pa. Pencil tablets, composition books, note books, etc. 422,991; Aug. 20; Serial No. 489,470; published May 28, 1946. Class 37.

Laboratory Products Corp., New York, N. Y. Insecticides adapted for spraying animals and insecticides for killing insects. 423,021; Aug. 20; Serial No. 491,344; published May 14, 1946. Class 6.

La Floreal Parfum Sales Company: *See*—
Simon, Harry A.

Lakeside Laboratories, Inc., Milwaukee, Wis. Tablets containing liver, iron and copper, and crystalline B vitamins. 422,929; Aug. 20; Serial No. 480,334; published Aug. 7, 1945. Class 6.

Lambert Marketing Company: *See*—
Pioneer Fruit Company, The.

Lane Tobacco, Ltd., New York, N. Y. Smoking tobacco. 423,019–20; Aug. 20; Serial Nos. 491,272–3; published May 14, 1946. Class 17.

Larrowe Mills, Inc., Cohocton, N. Y. Garden mulches. 422,986; Aug. 20; Serial No. 489,225; published May 7, 1946. Class 1.

Lehigh Coal & Navigation Company, The, Philadelphia, Pa. Coal. 56,244; re-renewed Sept. 4, 1946. O. G. Aug. 20. Class 1.

Lehigh Handkerchief Co., New York, N. Y. Handkerchiefs. 423,049; Aug. 20; Serial No. 492,928; published May 28, 1946. Class 39.

Lerner, Abram S.: *See*—
Lerner, Michael M.

Lerner, Michael M., doing business as Marie de Medicis Company, to Abram S. Lerner, Philadelphia, Pa. Hair oils. 212,756; renewed May 11, 1946. O. G. Aug. 20. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. 423,154; Aug. 20. Class 4.

Lewis, Hubbard and Company, to Lewis-Hubbard Corporation, Charleston, W. Va. Canned fruits and vegetables, spices, dried beans, etc. 211,013; renewed Mar. 30, 1946. O. G. Aug. 20. Class 46.

Lewis-Hubbard Corporation: *See*—
Lewis, Hubbard and Company.

Levi, Jonathan Co., Inc., Schenectady, to Levi, Jonathan Co., Inc., Albany, N. Y. Certain named canned fruits, vegetables, sea foods, etc. 217,375; renewed Aug. 31, 1946. O. G. Aug. 20. Class 46.

Lincolnsfield Mills Corp., Lincoln, Maine, and New York, N. Y. Coats and suits. 423,130; Aug. 20. Class 39.

Lionel Trading Co. Inc., to Parfums Corday, Inc., New York, N. Y. Perfumes, toilet waters, face lotions, etc. 215,894; renewed July 27, 1946. O. G. Aug. 20. Class 6.

Little Crow Milling Company, to Little Crow Milling Company, Incorporated, Warsaw, Ind. Buckwheat and wheat flour. 208,763; renewed Feb. 9, 1946. O. G. Aug. 20. Class 46.

Little Crow Milling Company, Incorporated: *See*—
Little Crow Milling Company.

Los Angeles Pharmacal Co.: *See*—
Salazar, Lucila.

Luse-Stevenson Co., Chicago, Ill. Cork board for general insulation. 423,159; Aug. 20. Class 12.

Lynn Products, Inc., Plainfield, N. J. Bath room fixtures. 423,037; Aug. 20; Serial No. 492,501; published May 21, 1946. Class 13.

Magnus Chemical Company, Inc., Garwood, N. J. Lubricant in the nature of an anhydrous granulated or powdered soap. 423,099; Aug. 20. Class 15.

Maltine Company, The, New York, N. Y. Medicinal compounds. 423,014; Aug. 20; Serial No. 490,897; published May 7, 1946. Class 6.

Manhattan Jewelry Center: *See*—
Bardon, Jack.

Man-O-War Remedy Company: *See*—
Coneley, R. D.

Many, Blanc & Co., Inc.: *See*—
Elco Distributing Co.

Marsh Stencil Machine Company, Belleville, Ill. Stencil marking inks. 423,117; Aug. 20. Class 11.

May Department Stores Company, The, St. Louis, Mo., to The May Department Stores Company, New York, N. Y. Ladies' hats. 217,631; renewed Sept. 7, 1946. O. G. Aug. 20. Class 39.

May, Lee J., Cairo, Ill., to I. Jablow and Company, Philadelphia, Pa. Men's and young men's clothing. 208,789; renewed Feb. 9, 1946. O. G. Aug. 20. Class 39.

Mayborn Food Products Co., The, Cleveland, Ohio. Food flavorings. 216,056; renewed Aug. 3, 1946. O. G. Aug. 20. Class 46.

McClintock, F. H., Co., Lansing, Mich. Vehicles. 422,912; Aug. 20; Serial No. 472,150; published May 28, 1946. Class 19.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparations. 422,992; Aug. 20; Serial No. 489,592; published Apr. 2, 1946. Class 6.

Meat Industry Suppliers, Inc., Chicago, Ill. Seasonings. 423,095; Aug. 20. Class 46.

Medico Pharmacal Laboratories, San Antonio, Tex. Preparation for nasal obstructions, etc. 422,907; Aug. 20; Serial No. 451,497; published Oct. 26, 1943. Class 6.

Melrose, Andrew, & Co., to Melroses Limited, Edinburgh, Scotland. Tea. 27,864; re-renewed Feb. 25, 1946. O. G. Aug. 20. Class 46.

Melroses Limited: *See*—
Melrose, Andrew, & Co.

Metro Jewelry Company, New York, N. Y. Jewelry. 422,915; Aug. 20; Serial No. 474,202; published May 28, 1946. Class 28.

Meyers, Louis G., doing business as Alpha-Craft Company, New York, N. Y. Costume jewelry. 423,080; Aug. 20; Serial No. 494,916; published May 28, 1946. Class 28.

Michigan Condensed Milk Co., Lansing, Mich., and New York, N. Y., to The Borden Company, New York, N. Y. Condensed milk. 56,249; re-renewed Sept. 4, 1946. O. G. Aug. 20. Class 46.

Michigan Dairy Products Corporation, Crystal Falls, Mich. Pasteurized cheese food. 422,948; Aug. 20; Serial No. 484,576; published May 21, 1946. Class 46.

Miller Bros. Hat Co. Inc., New York, N. Y. Men's hats. 423,123; Aug. 20. Class 39.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 422,969; Aug. 20; Serial No. 487,051; published May 21, 1946. Class 39.

Minneapolis Star Journal and Tribune Company, Minneapolis, Minn. Regularly issued newspaper. 422,951; Aug. 20; Serial No. 484,850; published May 28, 1946. Class 38.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrasive paper, abrasive cloth, abrasive belts, etc. 423,092; Aug. 20. Class 4.

Modern Office Devices, Inc., New York, to Modern Office Devices, Inc., Franklin Square, N. Y. Binders or files and hand punching devices. 213,022; renewed May 18, 1946. O. G. Aug. 20. Class 37.

Modesto Co-Operative Winery, Inc., Empire, Calif. Wine. 422,943–4; Aug. 20; Serial Nos. 483,865–6; published May 7, 1946. Class 47.

Mont La Salle Vineyards: *See*—
De La Salle Institute.

Moses, Philip G., doing business as Interstate Specialties Company, Buffalo, assignor, by mesne assignments, to Dalton Products Company, North Tonawanda, N. Y. Payroll computing apparatus. 423,120; Aug. 20. Class 26.

Mother Hubbard Products Co., also doing business as G. A. Goodrich Company, Chicago, Ill. Gelatine dessert preparations, pudding dessert preparations, cake mix, etc. 423,098; Aug. 20. Class 46.

Myers, P. R., & Co., New York, N. Y. Coffee, tea, canned fish, etc. 422,923; Aug. 20; Serial No. 479,249; published May 21, 1946. Class 46.

Nash Coffee Company, to Nash-Finch Company, Minneapolis, Minn. Coffee. 213,923; renewed June 8, 1946. O. G. Aug. 20. Class 46.

Nash Coffee Company, to Nash-Finch Company, Minneapolis, Minn. Coffee. 214,779; renewed July 6, 1946. O. G. Aug. 20. Class 46.

Nash-Finch Company: *See*—
Nash Coffee Company.

National Battery Company: *See*—
Consolidated Battery Company.

National Silver Company, New York, N. Y. Sterling silver and silver-plated flatware, hollow ware, and tableware. 423,067; Aug. 20; Serial No. 494,105; published May 28, 1946. Class 28.

Nelson, Edward C., Van Dyne, Wis. Hand or pocket cigarette rolling machine. 422,930; Aug. 20; Serial No. 480,521; published May 14, 1946. Class 8.

Nestle-Le Mur Company, The. Fixative for coiffures. 423,097; Aug. 20. Class 6.

New Process Service Company, San Francisco, Calif. Chemical preparation. 422,993–4; Aug. 20; Serial Nos. 489,601–2; published May 7, 1946. Class 6.

New York Merchandise Co., Inc., New York, N. Y. Combs. 423,161; Aug. 20. Class 40.

Niagara Apparel Co., Inc.: *See*—
Niagara Overall and Pants Company, Inc.

Niagara Overall and Pants Company, Inc., to Niagara Apparel Co., Inc., Buffalo, N. Y. Hosiery, sweaters, coats, etc. 203,906; renewed Sept. 29, 1945. O. G. Aug. 20. Class 39.

Nichols, H. W., Nichols Salesbook Company, Cincinnati, Ohio. Publications. 423,094; Aug. 20. Class 38.

Norcross, Sterling E., Bloomfield, N. J. Industrial sales promotion bulletins. 422,936; Aug. 20; Serial No. 481,674; published May 7, 1946. Class 38.

Nunnally Company, The, Atlanta, to Fine Products Corporation, Augusta, Ga. Chocolates and bonbons. 208,186; renewed Jan. 19, 1946. O. G. Aug. 20. Class 46.

Nuodex Products Co., Inc., Elizabeth, N. J. Driers, dispersing agents, stabilizing agents for linoleum and oiled cloth compositions, etc. 422,977; Aug. 20; Serial No. 488,281; published May 7, 1946. Class 6.

Nylife Corporation, Brooklyn, N. Y. Chemical for coating textile material. 422,952; Aug. 20; Serial No. 484,901; published May 14, 1946. Class 6.

Old Mission Wineries, Los Angeles, Calif. Wines. 422,939; Aug. 20; Serial No. 483,661; published May 7, 1946. Class 47.

Ortho Pharmaceutical Corporation, Linden, N. J. Vaginal douche. 423,077; Aug. 20; Serial No. 494,859; published May 14, 1946. Class 6.

Overbagh & Ayers Mfg. Co., Chicago, Ill. Certain named reflectors for use as fixture units for lighting of buildings and streets. 215,593; renewed July 20, 1946. O. G. Aug. 20. Class 34.

Para Manufacturing Co., Inc., Newark, N. J. Shower curtains and matching window drapes, etc. 423,141; Aug. 20. Class 13.

Paraffine Companies, Inc., The, San Francisco, Calif. Prepared floor coverings. 211,469; renewed Apr. 13, 1946. O. G. Aug. 20. Class 20.

Parfums Blanchard, New York, N. Y. Perfumes, toilet waters, bath powders, and skin lotions. 423,004; Aug. 20; Serial No. 490,255; published May 14, 1946. Class 6.

Parfums Charbert, Inc., New York, N. Y. Bracelets and necklaces. 423,042; Aug. 20; Serial No. 492,652; published May 21, 1946. Class 28.

Parfums Corday, Inc.: *See*—
Lionel Trading Co. Inc.

Parfums Massenet, Inc., New York, N. Y. Perfumes and toilet waters. 423,083; Aug. 20; Serial No. 495,093; published May 14, 1946. Class 6.

Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, colognes, toilet waters, etc. 423,036; Aug. 20; Serial No. 492,275; published May 7, 1946. Class 6.

Parfums Valentina: *See*—
Schlee, George.

Paris, Roy, Dallas, Tex. Aviation caps. 423,045; Aug. 20; Serial No. 492,786; published May 28, 1946. Class 39.

Patent Novelty Company, Incorporated, Fulton, Ill. Dustpans. 210,348; renewed Mar. 16, 1946. O. G. Aug. 20. Class 13.

Patent Novelty Company, Incorporated, Fulton, Ill. Combined clothesline and reels therefor. 214,664; renewed June 29, 1946. O. G. Aug. 20. Class 24.

Patrol Valve Company, The: *See*—
Cleveland Heater Company, The.

Patterson Foundry & Machine Co., The, East Liverpool, Ohio. Ceramic body mixture. 422,981; Aug. 20; Serial No. 488,831; published May 28, 1946. Class 1.

Pennex Products Co., Incorporated, Pittsburgh, Pa. Wave set preparation. 422,984; Aug. 20; Serial No. 489,143; published May 14, 1946. Class 6.

Perez, Pablo L., Habana, Cuba. Cigars. 422,959; Aug. 20; Serial No. 485,793; published May 14, 1946. Class 17.

Periolat, Charles B., doing business as Colortop Manufacturing Co., Chicago, Ill. Key blanks and keys. 423,124; Aug. 20. Class 25.

Peter Pan Foundations, Inc. New York, N. Y. Brassières. 423,121; Aug. 20. Class 39.

Peverley, George W.: *See*—
Peverly, George W.

Peverly, George H., Co.: *See*—
Peverly, George W.

Peverly, George W., doing business as George H. Peverly Co., Pacoima, to George W. Peverley, San Fernando, Calif. Certain named soft drinks and sirups and extracts. 215,482; renewed July 20, 1946. O. G. Aug. 20. Class 45.

Philadelphia Rubber Works Company, The, Akron and Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reclaimed rubber. 423,027; Aug. 20; Serial No. 491,674; published May 14, 1946. Class 1.

Pierce's Proprietaries, Inc., Buffalo, N. Y. Pharmaceutical and medicinal preparation. 422,971; Aug. 20; Serial No. 487,636; published May 14, 1946. Class 6.

Pioneer Fruit Company, The, San Francisco, to Lambert Marketing Company, Sacramento, Calif. Fresh deciduous fruits and fresh grapes. 214,749; renewed July 6, 1946. O. G. Aug. 20. Class 46.

Pitchal, Inc., New York, N. Y. Dressed poultry products. 423,137; Aug. 20. Class 46.

Plastic Center Co.: *See*—
Fritts, Donald E.

Playcraft Co., The, Skokie, Ill. Toy swings, teeterboards, toy slides, etc. 422,972; Aug. 20; Serial No. 487,637; published May 7, 1946. Class 22.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Ladies' and misses' coats, dresses, jackets, etc. 423,112; Aug. 20. Class 39.

Pollak, Henry, Inc., New York, N. Y. Hat braids and millinery braids. 423,126; Aug. 20. Class 40.

Porritt, Joseph, & Sons, to Joseph Porritt & Sons Limited, Helmshore, England. Paper-makers' feltings. 54,579; re-renewed June 26, 1946. O. G. Aug. 20. Class 50.

Porritt, Joseph, & Sons Limited: *See*—
Porritt, Joseph, & Sons.

Powhatan Spring Water Co., The, Bridgeport, to Rock-Powhatan Spring Water Company, The, Fairfield, Conn. Distilled water, spring water, and nonalcoholic, maltless carbonated beverages. 202,706; renewed Sept. 1, 1945. O. G. Aug. 20. Class 45.

Price Detergent Co.: *See*—
Price, Robert H.

Price, Robert H., doing business as Price Detergent Co., Shelton, Wash. Preparation for cleaning hats and light-colored braid and decorations, etc. 423,129; Aug. 20. Class 4.

Princeton Packers, Half Moon Bay, Calif. Canned sardines. 422,965; Aug. 20; Serial No. 486,168; published May 28, 1946. Class 46.

Promena Boon & Comp. C. V.: *See*—
Boon, W. J., & Company.

Prosser, T. H., Sons Ltd., London, England. Lawn-tennis rackets, tennis balls, tennis posts, etc. 218,012; renewed Sept. 14, 1946. O. G. Aug. 20. Class 22.

Pyramid Leather Goods Co., Inc., New York, N. Y. Leathers. 422,995; Aug. 20. Serial No. 489,610; published May 7, 1946. Class 1.

Qualified Products Co.: *See*—
Smerkina, H. S.

Rathborne, Hair & Ridgway Company, Chicago, Ill. Pallets, which are load-supporting platforms, bases, etc. 423,193; Aug. 20. Class 50.

Records & Goldsborough, Inc., Baltimore, Md. Whiskey, gin, brandy, etc. 422,949; Aug. 20; Serial No. 484,589; published May 7, 1946. Class 49.

Register and Tribune Company, The, Des Moines, Iowa. Periodical. 217,491; renewed Aug. 31, 1946. O. G. Aug. 20. Class 38.

Reichhold Chemicals, Inc., Detroit, Mich. Oils, processed oils, and synthetic oils. 422,913; Aug. 20; Serial No. 472,750; published May 14, 1946. Class 6.

Reliable Flour Company, to Reliable Flour Company, Inc., Boston, Mass. Self-raising prepared flour. 56,083; re-renewed Aug. 21, 1946. O. G. Aug. 20. Class 46.

Reliable Flour Company, Inc.: *See*—
Reliable Flour Company.

Resistoflex Corporation, Belleville, N. J. Extruded and molded sheets, slabs, films, etc. 422,982; Aug. 20; Serial No. 488,866; published May 7, 1946. Class 1.

Rex Research Corporation: *See*—
Toledo Rex Spray Company.

Reynolds Metals Company, Richmond, Va. Metallic foil. 423,101; Aug. 20. Class 37.

Richards & Case: *See*—
Case, James L.

Rivoli Hosiery Company, New York, N. Y. Hosiery. 423,195; Aug. 20. Class 39.

Roberts Creations Company, New York, N. Y. Eau de cologne. 423,070; Aug. 20; Serial No. 494,237; published May 14, 1946. Class 6.

Rock-Powhatan Spring Water Company, The: *See*—
Powhatan Spring Water Co., The.

Rockwood & Co., Brooklyn, N. Y. Chocolate candy bars, candy hollow mold pieces, and candy chocolate pieces. 423,104; Aug. 20. Class 46.

Rodney Milling Company, doing business as The Russell Milling Co., Kansas City, Mo., and Russell, Kans. Wheat flour. 422,937; Aug. 20; Serial No. 481,913; published May 28, 1946. Class 46.

Rohm & Haas Company, Philadelphia, Pa. Insecticides, fungicides, and disinfectants. 423,024; Aug. 20; Serial No. 491,514; published May 14, 1946. Class 6.

Rosen, Emanuel, doing business as Kleen Manufacturing Company, Chicago, Ill. Preparation for cleaning bathroom fixtures, woodwork, tile, etc. 423,142; Aug. 20. Class 4.

Royce Publishers, Chicago Ill. Printed books. 422,976; Aug. 20; Serial No. 488,126; published May 7, 1946. Class 38.

Russell Milling Co., The: *See*—
Rodney Milling Company.

Russi, F. B., & Company, San Francisco, Calif. Fresh artichokes. 423,202; Aug. 20. Class 46.

Rustin, Louis, Clichy, France. Automobile repair patches for automobile and bicycle tires. 423,061; Aug. 20; Serial No. 493,569; published May 28, 1946. Class 35.

S. & G. Rubber Co., Inc.: *See*—
Traun, Dr. Heinrich, & Söhne.

Saint Louis and O'Fallon Coal Company, St. Louis, Mo. Coal. 217,149; renewed Aug. 24, 1946. O. G. Aug. 20. Class 1.

Salazar, Lucila, doing business as Los Angeles Pharmacal Co., Los Angeles, Calif. Brilliantine hair dressing. 423,068; Aug. 20; Serial No. 494,126; published May 7, 1946. Class 6.

Sampson & Katzenberg, New York, N. Y. Ladies' and misses' blouses, gilets, collar and cuff sets, etc. 423,188; Aug. 20. Class 39.

Sass-Dorne Studio, Los Angeles, Calif. Pictures. 422,966; Aug. 20; Serial No. 486,170; published May 28, 1946. Class 38.

Saurer, Adolph, Inc., New York, N. Y., to Societe Anonyme Adolphe Saurer, Arbon, Switzerland. Truck and passenger automobiles, automobile wheels, radiators, etc. 210,390; renewed Mar. 16, 1946. O. G. Aug. 20. Class 19.

Sauter Freres & Co. Fabrique d'Horlogerie, Pierpont, S. A., Bienne, Switzerland. Watches and parts of watches. 422,974; Aug. 20; Serial No. 487,919; published May 7, 1946. Class 27.

Schindel-McDaniels Company, to Schindel-McDaniels Co., Inc., New York, N. Y. Sheets, pillow cases, bedspreads etc. 217,430; renewed Aug. 31, 1946. O. G. Aug. 20. Classes 42 and 39.

Schindel-McDaniels Co., Inc.: *See*—
Schindel-McDaniels Company.

Schlee, George, doing business as Parfums Valentina, New York, N. Y. Perfume extracts. 422,960; Aug. 20; Serial No. 485,839; published May 7, 1946. Class 6.

Scholl Manufacturing Company, Inc., to Scholl Mfg. Co., Inc., The, Chicago, Ill. Heel liners for slippers or pumps. 216,979; renewed Aug. 24, 1946. O. G. Aug. 20. Class 39.

Scholl Mfg. Co., Inc., The: *See*—
Scholl Manufacturing Company, Inc.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Shoes. 422,941; Aug. 20; Serial No. 483,744; published May 21, 1946. Class 39.

Schultz, Rose, Flushing, N. Y. Pincushions. 423,131; Aug. 20. Class 40.
Sealy Incorporated, Chicago, Ill. Mattresses and box springs. 423,186; Aug. 20. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Baby chicks. 422,927; Aug. 20; Serial No. 479,535; published May 21, 1946. Class 46.
Seavey, Malcolm, doing business as Malcolm Seavey & Co., Thomaston, Maine. Cruising sailboats. 423,051; Aug. 20; Serial No. 493,149; published May 21, 1946. Class 19.
Seavey, Malcolm, & Co.: *See*—
Seavey, Malcolm.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Anthelmintic and antibacterial preparation. 423,016; Aug. 20; Serial No. 490,975; published May 7, 1946. Class 6.
Shell Union Oil Corporation, San Francisco, Calif. Impregnated wrapping paper. 423,006; Aug. 20; Serial No. 490,401; published May 7, 1946. Class 37.
Sherman Bows: *See*—
Sherman, Sol.
Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Neckties and bow ties. 423,145; Aug. 20. Class 39.
Shook Bronze Corporation, Lima, Ohio. Babbitt metals, bushing metal, and rough bushing stock. 423,151; Aug. 20. Class 14.
Sicard, Arthur, Montreal, Quebec, Canada. Motor-operated vehicular closed carriers. 423,046; Aug. 20; Serial No. 492,798; published May 28, 1946. Class 19.
Siebert & Willis, Inc.: *See*—
Southeast Distributors Electrical Appliance Corporation.
Silklin Paper Corporation, San Francisco, Calif. Toilet tissue. 423,018; Aug. 20; Serial No. 491,172; published May 21, 1946. Class 37.
Simmonds Aerocessories Limited, Brentford, England. Nuts, bolts, washers, clips, etc. 422,908; Aug. 20; Serial No. 453,068; published May 28, 1946. Class 13.
Simon, Harry A., doing business as La Floreal Parfum Sales Company, Hollywood, Calif. Cosmetic and toilet preparations. 423,149; Aug. 20. Class 6.
Simpson, Adele, & Co.: *See*—
Simpson, Adele, Inc.
Simpson, Adele, Inc., assignor to Adele Simpson & Co., New York, N. Y. Cologne. 422,916; Aug. 20; Serial No. 475,929; published May 7, 1946. Class 6.
Smerkins, H. S., doing business as Qualified Products Co., Chicago, Ill. Potato pancake mix. 423,109; Aug. 20. Class 46.
Smith-Dorsey Company, The, Lincoln, Nebr. Vitamin preparation. 423,086; Aug. 20; Serial No. 495,515; published May 7, 1946. Class 6.
Socialite Cosmetics, Inc., New York N. Y. Perfume, toilet water, lip stick, etc. 422,999; Aug. 20; Serial No. 489,695; published May 7, 1946. Class 6.
Socialite Cosmetics, Inc., New York, N. Y. Perfume, toilet water, lip stick, etc. 423,000; Aug. 20; Serial No. 489,697; published May 7, 1946. Class 6.
Societe Anonyme Adolphe Saurer: *See*—
Saurer, Adolph, Inc.
Societe Anonyme D'Onge, to Société Cadum, Courbevoie, France. Perfumes and toilet waters. 213,930; renewed June 8, 1946. O. G. Aug. 20. Class 6.
Société Cadum: *See*—
Societe Anonyme D'Onge.
Somers-Ernst Co. Inc., New York, N. Y. Articles of jewelry. 423,181; Aug. 20. Class 28.
South Chester Corporation, Chester, Pa. Anchor nuts and couplings. 423,069; Aug. 20; Serial No. 494,136; published May 28 1946. Class 13.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Kraft paper. 423,096; Aug. 20. Class 37.
Southern Bedding Company, Inc., Lexington, Ky. Mattresses. 214,943; renewed July 6, 1946. O. G. Aug. 20. Class 32.
Southwest Distributors Electrical Appliance Corporation, Wichita, Kans., now by change of name to Siebert & Willis, Inc. Liquified petroleum gas. 423,105; Aug. 20. Class 6.
Southwestern Jacket Manufacturing Co., San Antonio, Tex. Nurses' and waitresses' aprons, caps, and uniforms. 423,114; Aug. 20. Class 39.
Sperry Gyroscope Company, Inc., Great Neck, N. Y. Rotor-balancing apparatus. 423,003; Aug. 20; Serial No. 490,145; published May 21, 1946. Class 26.
Staedtler, J. S., Inc., New York, N. Y. Lead pencils. 212,961–4; renewed May 18, 1946. O. G. Aug. 20. Class 37.
Stanley, John T., Co., Inc., New York, N. Y. Laundry pads. 215,161; renewed July 13, 1946. O. G. Aug. 20. Class 24.
Staples Grocery Company, Inc., The, Richmond, Va., to Consolidated Grocers Corporation, Baltimore, Md. Condiments. 211,134; renewed Apr. 6, 1946. O. G. Aug. 20. Class 46.
Starr, Samuel G., Arlington, Vå. Kits. 423,015; Aug. 20; Serial No. 490,908; published May 21, 1946. Class 50.
Stavanger Preserving Company Aktieselskab, Stavanger, Norway. Canned or preserved fish. 217,868; renewed Sept. 14, 1946. O. G. Aug. 20. Class 46.
Stone, H., & Co., Ltd., Newark, N. J. Scotch whiskey. 423,084; Aug. 20; Serial No. 495,196; published May 21, 1946. Class 49.
Stor-Aid, Inc., New York, N. Y. Laminated panel for collapsible closets and the like. 423,153; Aug. 20. Class 12.
Straubel Paper Company, Green Bay, Wis. Toilet tissue and paper towels. 423,162; Aug. 20. Class 37.
Strawbridge & Clothier, to Strawbridge & Clothier, Philadelphia, Pa. Dolls. 55,583; re-renewed Aug. 14, 1946. O. G. Aug. 20. Class 22.
Stuebing Truck Company, The, Cincinnati, Ohio, to Yale & Towne Manufacturing Company, The, New York, N. Y. Lifting trucks and loading platforms. 215,631; renewed July 20, 1946. O. G. Aug. 20. Class 19.
Sucesion de Jose L. Piedra, Habana, Cuba. Cigars. 422,950; Aug. 20; Serial No. 484,717; published May 28, 1946. Class 17.
Sun Oil Company, Philadelphia, Pa. Wind-shield wipers, blades and arms. 423,090; Aug. 20; Serial No. 496,348; published May 28, 1946. Class 19.
Supreme Shoe Company, Inc., Los Angeles, Calif. Leather shoes. 423,187; Aug. 20. Class 39.
Susquehanna Mills, Inc.: *See*—
Susquehanna Silk Mills.
Susquehanna Silk Mills, to Susquehanna Mills, Inc., New York, N. Y. Silk and wool piece goods. 212,032; renewed Apr. 27, 1946. O. G. Aug. 20. Class 42.
Tablerock Laboratories Inc., Greenville, S. C. Tablets for the treatment of hypothyroidism. 422,967; Aug. 20; Serial No. 486,339; published May 7, 1946. Class 6.
Talcott, W. O. & M. W., Incorporated, Providence, R. I. Belt hooks for fasteners. 217,519; renewed Aug. 31, 1946. O. G. Aug. 20. Class 13.
Terry, Robert W., doing business as Columbus Vaccine Company, Columbus, Ohio. Diagnostic agent for the detection of diseases in poultry. 423,011; Aug. 20; Serial No. 490,716; published May 7. Class 6.
Thayer Company, Gardner, Mass. Baby carriages and strollers. 423,063; Aug. 20; Serial No. 493,847; published May 28, 1946. Class 19.
Theimer, Leo S., Minneapolis, Minn. An ointment for the treatment of eczema and acne. 423,185; Aug. 20. Class 6.
Thonet Brothers, Vienna, Austria, to Thonet Brothers, Inc., New York, N. Y. Bent-wood furniture. 54,066; re-renewed June 19, 1946. O. G. Aug. 20. Class 32.
Thonet Brothers, Inc.: *See*—
Thonet Brothers.
Thorburn, William, Limited, Edinburgh, Scotland. Scotch whiskey and liqueurs. 422,985; Aug. 20; Serial No. 489,190; published May 28, 1946. Class 49.
Three-In-One Doll Corporation, New York, N. Y. Dolls. 423,088; Aug. 20. Serial No. 495,637; published May 28, 1946. Class 22.
Timken-Detroit Axle Company, The, Detroit, Mich. Brakes for dirigible automotive vehicles. 422,931; Aug. 20; Serial No. 480,535; published May 28, 1946. Class 19.
Titeflex, Inc., Newark, N. J. Water filters and apparatus for purifying water of the type which injects chemicals and adsorptive materials. 423,029; Aug. 20; Serial No. 491,739; published May 28, 1946. Class 31.
Toledo Rex Spray Company, The, Toledo, Ohio, assignor to Rex Research Corporation, to Rex Research Corporation, Toledo, Ohio. Rodent exterminator. 213,661; renewed June 1, 1946. O. G. Aug. 20. Class 6.
Top Wine Co., Brooklyn, N. Y. Wines. 423,052; Aug. 20; Serial No. 493,153; published May 21, 1946. Class 47.
Traun, Dr. Heinrich, & Söhne, Hamburg, Germany, to S. & G. Rubber Co., Inc., Westwood, N. J. Combs. 51,911; re-renewed Apr. 24, 1946. O. G. Aug. 20. Class 40.
Tredah Company: *See*—
Hadert, Albert J.
Tres Banderas, Inc., New York, N. Y. Simulated pearls and novelty jewelry. 423,078; Aug. 20; Serial No. 494,874; published May 28, 1946. Class 28.
Troutman, I. C., Co.: *See*—
Troutman, Ira C.
Troutman, Ira C., doing business as I. C. Troutman Co., Bell Gardens, Calif. Garment formers, tumblers, puffsets, etc. 422,953; Aug. 20; Serial No. 485,038; published Oct. 16, 1945. Class 24.
Tuff Stuff Insecticides: *See*—
Huston, Tom.
Turco Products, Inc., Los Angeles, Calif. Chemical compound. 422,917, Aug. 20; Serial No. 475,989; published June 19, 1945. Class 4.
Unical Import Company, New York, N. Y. Printed calculating charts. 422,979; Aug. 20; Serial No. 488,495; published May 28, 1946. Class 38.
Union Food Products Co., The, Greenville, Ohio. Peanut butter, prepared mustard, and tomato catchup. 215,774; renewed July 27, 1946. O. G. Aug. 20. Class 46.
United Dairy Company, Barnesville, Ohio. Evaporated milk. 211,245; renewed Apr. 6, 1946. O. G. Aug. 20. Class 46.

U. S. Vitamin Corporation, New York, N. Y. High-potency vitamin D product in combination with multiple vitamins. 423,053; Aug. 20; Serial No. 493,229; published May 14, 1946. Class 6.
U. S. Vitamin Corporation, New York, N. Y. Desiccated whole liver in tablet form. 423,054; Aug. 20; Serial No. 493,230; published May 14, 1946. Class 6.
Upland Winery, Sunnyside, Wash. Wine. 423,040; Aug. 20; Serial No. 492,601; published May 21, 1946. Class 47.
Upson's, Limited, London, England. Boots, shoes, sandals, etc. 423,012; Aug. 20; Serial No. 490,717; published May 28, 1946. Class 39.
Vereinigte Chininfabriken Zimmer & Co. Des Mit Beschränkter Haftung, Frankfort-on-the-Main, Germany, to The Chemical Foundation, Incorporated, New York, N. Y. Medicament comprising menthol. 54,087; re-renewed June 19, 1946. O. G. Aug. 20. Class 6.
Vermere, E. A., Los Angeles, Calif. Ash trays. 423,025; Aug. 20; Serial No. 491,531; published May 14, 1946. Class 8.
Victor Preserving Co., Ontario, N. Y. Canned and pickled fruits and vegetables. 215,845; renewed July 27, 1946. O. G. Aug. 20. Class 46.
Vogue Luggage Company, San Francisco, Calif. Luggage. 423,144; Aug. 20. Class 3.
Warner, William R., & Co., Inc., New York, N. Y. Prescription vehicle. 423,050; Aug. 20; Serial No. 493,089; published May 14, 1946. Class 6.
Warp Brothers: *See*—
Warp, Harold.
Warp, Harold, doing business as Flex-O-Glass Manufacturing Co. and as Warp Brothers, Chicago, Ill. Woven, reticular, mesh netting, and screening. 422,909; Aug. 20; Serial No. 458,379; published May 21, 1946. Class 13.
Warren Featherbone Co., The, Three Oaks, Mich. Button loops, featherbone stays, corset stays, etc. 423,093; Aug. 20. Class 40.
Washington Co-Operative Farmers' Association, Seattle, Wash. Canned chicken and turkey meats, with their gravies and jellies. 423,058; Aug. 20; Serial No. 493,467; published May 21, 1946. Class 46.
Weinberg, Albert B., New York, N. Y. Women's, misses', and girls' dresses, coats, underwear, etc. 423,166–71; Aug. 20. Class 39.
Weinberg, Albert B., New York, N. Y. Women's, misses', and girls' dresses, coats, underwear, etc. 423,182; Aug. 20. Class 39.
Westall, Evelyn, doing business as Evelyn Westall Co., New York, N. Y. Perfumery. 422,925; Aug. 20; Serial No. 479,368; published May 7, 1946. Class 6.
Westall, Evelyn, Co.: *See*—
Westall, Evelyn.
Wester Bros., to Wester, Herbert, doing business as Wester Bros., New York, N. Y. Domestic and pocket knives, commercial and trade knives, hair clippers, etc. 217,239; renewed Aug. 31, 1946. O. G. Aug. 20. Class 23.
Wester, Herbert: *See*—
Wester Bros.
Western Tablet & Stationery Corporation, Dayton, Ohio. Note books, composition books, combination theme tablets, etc. 423,008; Aug. 20; Serial No. 490,517; published May 28, 1946. Class 37.
West Virginia Puly & Paper Company, New York, N. Y. Pulverized wood pulp. 423,028; Aug. 20; Serial No. 491,693; published May 14, 1946. Class 1.
Wheeler, Osgood Company, The, Tacoma, Wash. Doors and panels. 215,809; renewed July 27, 1946. O. G. Aug. 20. Class 12.
Whitesons, Inc., New York, N. Y. Ladies', misses', girls', and children's sweaters, blouses, jumpers, etc. 423,199; Aug. 20. Class 39.
Wiley, R. J., Irvine, Calif. Fresh vegetable. 423,035; Aug. 20; Serial No. 492,242; published May 28, 1946. Class 46.
Willingmyre, Philip S., Merchantville, N. J. Face powders, toilet perfumes, lipsticks, etc. 422,962–3; Aug. 20; Serial Nos. 486,130–1; published May 14, 1946. Class 6.
Winne & Sutch Company, Los Angeles, Calif. Cotton goods in the piece. 217,146; renewed Aug. 24, 1946. O. G. Aug. 20. Class 42.
Wisconsin Accredited Cheese Company, Green Bay, Wis. American cheese and Swiss cheese. 423,133; Aug. 20. Class 46.
Wise, Wm. H., & Co., Inc., New York, N. Y. Printed books. 422,983; Aug. 20; Serial No. 489,028; published May 28, 1946. Class 38.
Wood, Cornell, Products Company, Milwaukee, Wis. Laminated industrial boards and wall-boards. 423,192; Aug. 20. Class 12.
Wright Leather Specialty Co., St. Louis, Mo. Paper memorandum pads. 422,957; Aug. 20; Serial No. 485,484; published May 14, 1946. Class 37.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio, to The Rudolph Wurlitzer Company, Chicago, Ill. Certain named musical instruments and parts thereof. 214,557; renewed June 29, 1946. O. G. Aug. 20. Class 3C
Wyeth Incorporated: *See*—
Wyeth, John, & Brother, Incorporated.
Wyeth, John, & Brother, Incorporated, to Wyeth Incorporated, Philadelphia, Pa. Medicinal alterative and reconstructive tonic. 215,885; renewed July 27, 1946. O. G. Aug. 20. Class 6.
Yale & Towne Manufacturing Company, The: *See*—
Stuebing Truck Company, The.
Yankee Food Company: *See*—
Kassaps, Savas.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Ceramic body mixture. Patterson Foundry & Machine Co. 422,981; Aug. 20; Serial No. 488,831; published May 28, 1946.
Coal. Holmes-Darst Coal Corporation. 423,033; Aug. 20; Serial No. 491,833; published May 21, 1946.
Coal. Lehigh Coal & Navigation Company. 56,244; renewed Sept. 4, 1946. O. G. Aug. 20.
Coal. Saint Louis and O'Fallon Coal Company. 217,149; renewed Aug. 24, 1946. O. G. Aug. 20.
Leather. J. S. Barnet & Sons, Incorporated. 422,978; Aug. 20; Serial No. 488,444; published May 28, 1946.
Leathers. Pyramid Leather Goods Co., Inc. 422,995; Aug. 20; Serial No. 489,610; published May 7, 1946.
Mulches, Garden. Larrowe Mills, Inc. 422,986; Aug. 20; Serial No. 489,225; published May 7, 1946.
Oil and grease adsorbent, Natural earth. Atlantic Refining Company. 422,924; Aug. 20; Serial No. 479,325; published May 28, 1946.
Plastic treated wood. D. E. Fritts. 422,919; Aug. 20; Serial No. 477,189; published May 7, 1946.
Rubber, Reclaimed. Philadelphia Rubber Works Company. 423,027; Aug. 20; Serial No. 491,674; published May 14, 1946.
Seed, Grass. Ferry-Morse Seed Co. 423,005; Aug. 20; Serial No. 490,302; published May 28, 1946.
Seeds. Ferry-Morse Seed Co. 422,975; Aug. 20; Serial No. 488,083; published May 14, 1946.
Sheets, films, foils, etc. Celanese Corporation of America. 423,017; Aug. 20; Serial No. 490,997; published May 28, 1946.
Sheets, slabs, films, etc., Extruded and molded. Resistoflax Corporation. 422,982; Aug. 20; Serial No. 488,866; published May 7, 1946.
Silk waste, Artificial. E. W. Dutton Inc. 214,397; renewed June 22, 1946. O. G. Aug. 20.
Wood pulp, Pulverized. West Virginia Pulp & Paper Company. 423,028; Aug. 20; Serial No. 491,693; published May 14, 1946.

CLASS 3

Luggage. Vogue Luggage Company. 423,144; Aug. 20.
Purses and hand-bags, Leather. Gorham Manufacturing Company. 54,036; re-renewed June 19, 1946. O. G. Aug. 20.

CLASS 4

Chemical compound. Turco Products, Inc. 422,917; Aug. 20; Serial No. 475,989; published June 19, 1945.
Cleaning bathroom fixtures, woodwork, tile, etc., Preparation for. E. Rosen. 423,142; Aug. 20.
Detergent or washing compound. Klenzade Products, Incorporated. 423,189; Aug. 20.
Paper, abrasive cloth, abrasive belts, etc., Abrasive. Minnesota Mining & Manufacturing Company. 423,092; Aug. 20.
Preparation for cleaning hats and light-colored braids and decorations, etc. R. H. Price. 423,129; Aug. 20.
Soap. C. A. Futter. 423,039; Aug. 20; Serial No. 492,555; published May 7, 1946.
Soaps, Toilet. Les Parfums de Dana, Inc. 423,154; Aug. 20.

CLASS 6

Agent for the detection of diseases in poultry, Diagnostic. R. W. Terry. 423,011; Aug. 20; Serial No. 490,716; published May 7, 1946.
Anthelmintic and antibacterial preparation. Sharp & Dohme, Incorporated. 423,016; Aug. 20; Serial No. 490,975; published May 7, 1946.
Antiseptics, germicides, and bactericides. Hynson, Westcott & Dunning. 215,543; renewed July 20, 1946. O. G. Aug. 20.
Chemical compounds. Bird-Archer Company. 50,995; renewed Apr. 3, 1946. O. G. Aug. 20.
Chemical for coating textile material. Nylife Corporation. 422,952; Aug. 20; Serial No. 484,901; published May 14, 1946.

Chemical for treating photographic transparencies. E. J. Herbert. 423,064; Aug. 20; Serial No. 493,925; published May 7, 1946.
Chemical preparation. New Process Service Company. 422,993–4; Aug. 20; Serial Nos. 489,601–2; published May 7, 1946.
Cologne. Adele Simpson, Inc. 422,916; Aug. 20; Serial No. 475,929; published May 7, 1946.
Cologne, Men's. Irresistible, Inc. 423,089; Aug. 20; Serial No. 496,082; published May 7, 1946.
Cosmetic and toilet preparations. H. A. Simon. 423,149; Aug. 20.
Counterirritant for use on horses. R. D. Coneley. 423,073; Aug. 20; Serial No. 494,427; published May 14, 1946.
Cream, Estrogenic hormone. W. J. Hart. 423,076; Aug. 20; Serial No. 494,841; published May 14, 1946.
Cream, Hair. Hair Research Laboratories Products Company. 423,075; Aug. 20; Serial No. 494,604; published May 7, 1946.
Douche, Vaginal. Ortho Pharmaceutical Corporation. 423,077; Aug. 20; Serial No. 494,859; published May 14, 1946.
Driers, dispersing agents, stabilizing agents for linoleum and oiled cloth compositions, etc. Nuodex Products Co., Inc. 422,977; Aug. 20; Serial No. 488,281; published May 7, 1946.
Dyestuffs. American Aniline Products, Inc. 422,982; Aug. 20; Serial No. 480,885; published May 7, 1946.
Dyestuffs, Metalized and chromiferous. American Aniline Products, Inc. 423,085; Aug. 20; Serial No. 495,208; published May 14, 1946.
Eau de cologne. Roberts Creations Company. 423,070; Aug. 20; Serial No. 494,237; published May 14, 1946.
Exterminator, Rodent. Toledo Rex Spray Company. 213,661; renewed June 1, 1946. O. G. Aug. 20.
Face powder, face makeup, creams, etc. Associated Products, Inc. 423,044; Aug. 20; Serial No. 492,759; published May 7, 1946.
Fixative for coiffures. Nestle-Le Mur Company. 423,097; Aug. 20.
Gas, Liquefied petroleum. Southwest Distributors Electrical Appliance Corporation. 423,105; Aug. 20.
Hair dressing, Brilliantine. L. Salazar. 423,068; Aug. 20; Serial No. 494,126; published May 7, 1946.
Hair shampoo. L. Johnston. 423,079; Aug. 20; Serial No. 494,910; published May 14, 1946.
Insecticides. T. Huston. 423,043; Aug. 20; Serial No. 492,709; published May 14, 1946.
Insecticides adapted for spraying animals and insecticides for killing insects. Laboratory Products Corp. 423,021; Aug. 20; Serial No. 491,344; published May 14, 1946.
Insecticides, fungicides, and disinfectants. Rohm & Haas Company. 423,024; Aug. 20; Serial No. 491,514; published May 14, 1946.
Lipstick, rouge, face powder, etc. Impression Products. 422,920; Aug. 20; Serial No. 477,931; published Apr. 10, 1945.
Lipsticks, perfumes, rouge, etc. Houbigant, Inc. 422,987; Aug. 20; Serial No. 489,264; published May 7, 1946.
Liver in tablet form, Desiccated whole. U. S. Vitamin Corporation. 423,054; Aug. 20; Serial No. 493,230; published May 14, 1946.
Lotion, Eye. Buffington's Inc. 423,065; Aug. 20; Serial No. 494,020; published May 7, 1946.
Lotion for chapped hands, face and lips. J. L. Case. 217,107; renewed Aug. 24, 1946. O. G. Aug. 20.
Medicament comprising menthol. Vereinigte Chininfabriken Zimmer & Co. Den Mit Beschränkter Haftung. 54,087; re-renewed June 19, 1946. O. G. Aug. 20.
Medicinal compounds. Maltine Company. 423,014; Aug. 20; Serial No. 490,897; published May 7, 1946.
Medicinal throat lozenge. Buffington's Inc. 423,066; Aug. 20; Serial No. 494,023; published May 7, 1946.
Oil for external and internal use. Foster-Milburn Company. 56,208; re-renewed Sept. 4, 1946. O. G. Aug. 20.
Oils, Hair. M. M. Lerner. 212,756; renewed May 11, 1946. O. G. Aug. 20.
Oils, processed oils, and synthetic oils. Reichhold Chemicals, Inc. 422,913; Aug. 20; Serial No. 472,750; published May 14, 1946.
Ointment for the treatment of eczema and acne. L. S. Theimer. 423,185; Aug. 20.
Ointments. Foster-McClellan Company. 53,075; re-renewed May 22, 1946. O. G. Aug. 20.
Perfume extracts. G. Schlee. 422,960; Aug. 20; Serial No. 485,839; published May 7, 1946.
Perfume, toilet water, lip stick, etc. Socialite Cosmetics, Inc. 422,999; Aug. 20; Serial No. 489,695; published May 7, 1946.
Perfume, toilet water, lip stick, etc. Socialite Cosmetics, Inc. 423,000; Aug. 20; Serial No. 489,697; published May 7, 1946.
Perfumery. E. Westall. 422,925; Aug. 20; Serial No. 479,368; published May 7, 1946.
Perfumes. Bonwit Teller, Inc. 422,933; Aug. 20; Serial No. 481,262; published May 14, 1946.
Perfumes. Café Société Parfum Company. 422,945–6; Aug. 20; Serial Nos. 483,894–5; published May 14, 1946.
Perfumes and dusting powder. Bonwit Teller, Inc. 422,934; Aug. 20; Serial No. 481,268; published May 7, 1946.
Perfumes and toilet waters. Perfums Massenet, Inc. 423,083; Aug. 20; Serial No. 495,093; published May 14, 1946.
Perfumes and toilet waters. Societe Anonyme D'Onge. 213,930; renewed June 8, 1946. O. G. Aug. 20.
Perfumes, colognes, toilet waters, etc. Parfums Schiaparelli, Inc. 423,036; Aug. 20; Serial No. 492,275; published May 7, 1946.
Perfumes, eau de toilette, eau de cologne, etc. Golden Arrow Toiletries. 423,013; Aug. 20; Serial No. 490,813; published May 7, 1946.
Perfumes, toilet waters, bath powders, and skin lotions. Parfums Blanchard. 423,004; Aug. 20; Serial No. 490,255; published May 14, 1946.
Perfumes, toilet waters, face lotions, etc. Lionel Trading Co. Inc. 215,894; renewed July 27, 1946. O. G. Aug. 20.
Pharmaceutical and medicinal preparation. Pierce's Proprietaries, Inc. 422,971; Aug. 20; Serial No. 487,636; published May 14, 1946.
Pharmaceutical preparation. Cole Chemical Company. 423,071; Aug. 20; Serial No. 494,309; published May 14, 1946.
Pharmaceutical preparation. Hogshead Chemical Corporation. 422,970; Aug. 20; Serial No. 487,367; published May 14, 1946.
Pharmaceutical preparations. Mead Johnson & Company. 422,992; Aug. 20; Serial No. 489,592; published Apr. 2, 1946.
Pine and tar compounds, bitters, cough syrup, etc., White. S. B. Goff & Sons Co. 216,763; renewed Aug. 17, 1946. O. G. Aug. 20.
Powder, dusting powder, and perfume, Face. Consolidated Cosmetics. 423,001; Aug. 20; Serial No. 489,715; published May 14, 1946.
Powder, face makeup in liquid form, creams for the hands and face, etc., Face. Associated Products, Inc. 422,988; Aug. 20; Serial No. 489,379; published May 14, 1946.
Powder, face makeup in liquid form, creams for the hands and face, etc., Face. Associated Products, Inc. 422,989; Aug. 20; Serial No. 489,381; published May 14, 1946.
Powder, face makeup in liquid form, creams for the hands and face, etc., Face. Associated Products, Inc. 423,038; Aug. 20; Serial No. 492,538; published May 14, 1946.
Powder, Talcum. Goodman Chemical Co. 423,074; Aug. 20; Serial No. 494,442; published May 7, 1946.
Powders, toilet perfumes, lipsticks, etc., Face. P. S. Willingmyre. 422,962–3; Aug. 20; Serial Nos. 486,130–1; published May 14, 1946.
Preparations for nasal obstructions, etc. Medico Pharmacal Laboratories. 422,907; Aug. 20; Serial No. 451,497; published Oct. 26, 1943.
Prescription vehicle. William R. Warner & Co., Inc. 423,050; Aug. 20; Serial No. 493,089; published May 14, 1946.
Remedy for kidney and bladder troubles and rheumatic troubles. E. W. Hall. 46,644; re-renewed Sept. 26, 1945. O. G. Aug. 20.
Resins, Synthetic finishing. American Cyanamid Company. 423,007; Aug. 20; Serial No. 490,412; published May 14, 1946.
Tablets containing liver, iron, and copper, and crystalline B vitamins. Lakeside Laboratories, Inc. 422,929; Aug. 20; Serial No. 480,334; published Aug. 7, 1945.
Tablets for the treatment of hypothyroidism. Tablerock Laboratories Inc. 422,967; Aug. 20; Serial No. 486,339; published May 7, 1946.
Tonic, Medicinal alterative and reconstructive. J. Wyeth & Brother, Incorporated. 215,885; renewed July 27, 1946. O. G. Aug. 20.
Vegetable compound recommended as a tonic, Purely. S. B. Goff & Sons, Co. 215,675; renewed July 20, 1946. O. G. Aug. 20.
Vitamin D product in combination with multiple vitamins, High-potency. U. S. Vitamin Corporation. 423,053; Aug. 20; Serial No. 493,229; published May 14, 1946.
Vitamin preparation. Smith-Dorsey Company. 423,086; Aug. 20; Serial No. 495,515; published May 7, 1946.
Vitamins and ascorbic acid, Combinations of B-complex. Clark & Clark. 422,968; Aug. 20; Serial No. 487,355; published May 7, 1946.
Wave set preparation. Pennex Products Co., Incorporated. 422,984; Aug. 20; Serial No. 489,143; published May 14, 1946.

CLASS 8

Ash trays. E. A. Vermere. 423,025; Aug. 20; Serial No. 491,531; published May 14, 1946.
Cigarette package containers, Plastic. Irwin Corporation. 422,928; Aug. 20; Serial No. 480,322; published May 28, 1946.
Pipes, Smoking. Art-Craft Briar Pipe Co. 423,172–5; Aug. 20.
Rolling machine, Hand or pocket cigarette. E. C. Nelson. 422,930; Aug. 20; Serial No. 480,521; published May 14, 1946.

CLASS 9

Percussion-caps. Eley Brothers Limited. 53,747; re-renewed June 12, 1946. O. G. Aug. 20.

CLASS 11

Inks, Stencil marking. Marsh Stencil Machine Company. 423,117; Aug. 20.

CLASS 12

Boards and wallboards, Laminated industrial. C. Wood Products Company. 423,192; Aug. 20.
Cements and putties, caulking compounds, etc., Certain named. Armstrong Company. 217,700; renewed Sept. 7, 1946. O. G. Aug. 20.
Cork board for general insulation. Luse-Stevenson Co. 423,159; Aug. 20.
Doors and panels. Wheeler, Osgood Company. 215,809; renewed July 27, 1946. O. G. Aug. 20.
Panel for collapsible closets and the like, Laminated. Stor-Aid, Inc. 423,153; Aug. 20.

CLASS 13

Curtains and matching window drapes, etc., Shower. Para Manufacturing Co., Inc. 423,141; Aug. 20.
Dustpans. Patent Novelty Company, Incorporated. 210,348; renewed Mar. 16, 1946. O. G. Aug. 20.
Fixtures, Bath room. Lynn Products, Inc. 423,037; Aug. 20; Serial No. 492,501; published May 21, 1946.
Hooks or fasteners, Belt. W. O. & M. W. Talcott, Incorporated. 217,519; renewed Aug. 31, 1946. O. G. Aug. 20.
Metallic pulley covers, and hand or pneumatically operated valves. Walter Kidde & Company, Inc. 422,954; Aug. 20; Serial No. 485,285; published May 28, 1946.
Netting and screening, Woven, reticular, mesh. H. Warp. 422,909; Aug. 20; Serial No. 458,379; published May 21, 1946.
Nuts and couplings, Anchor. South Chester Corporation. 423,069; Aug. 20; Serial No. 494,136; published May 28, 1946.
Nuts, bolts, washers, clips, etc. Simmonds Aerocessories Limited. 422,908; Aug. 20; Serial No. 453,068; published May 28, 1946.
Pipe-joints, Metallic. Hydril Corporation. 422,958; Aug. 20; Serial No. 485,773; published May 21, 1946.
Valves, hot-water valves, steam valves, etc., Radiator. Capitol Brass Works. 216,837; renewed Aug. 24, 1946. O. G. Aug. 20.

CLASS 14

Castings, Metal. Doehler-Jarvis Corporation. 423,118; Aug. 20.
Iron and steel sheets, Galvanized. American Rolling Mill Company. 423,152; Aug. 20.
Metals, bushing metal, and rough bushing stock, Babbitt. Shook Bronze Corporation. 423,151; Aug. 20.
Rolls of gold, silver, aluminum, etc., Package. W. H. Coe Manufacturing Company. 51,575; re-renewed Apr. 17, 1946. O. G. Aug. 20.

CLASS 15

Lubricant in the nature of an anhydrous granulated or powdered soap. Magnus Chemical Company, Inc. 423,099; Aug. 20.
Oils, for lubricating purposes, Penetrating. W. H. Bone. 423,108; Aug. 20.

CLASS 16

Paint enamels. Samuel H. French Paint Company. 422,940; Aug. 20; Serial No. 483,723; published May 14, 1946.
Polish, Furniture. C-Z Chemical Company. 423,116; Aug. 20.

CLASS 17

Cigars. Cuesta, Rey and Company. 217,178; renewed Aug. 24, 1946. O. G. Aug. 20.
Cigars. P. L. Peres. 422,959; Aug. 20; Serial No. 485,793; published May 14, 1946.
Cigars. Sucesion de Jose L. Piedra. 422,950; Aug. 20; Serial No. 484,717; published May 28, 1946.
Tobacco, Smoking. Lane Tobacco, Ltd. 423,019–20; Aug. 20; Serial Nos. 491,272–3; published May 14, 1946.

CLASS 19

Automobiles, automobile wheels, radiators, etc., Truck and passenger. Adolph Asurer, Inc. 210,390; renewed Mar. 16, 1946. O. G. Aug. 20.
Brakes for dirigble automotive vehicles. Timken-Detroit Axle Company. 422,931; Aug. 20; Serial No. 480,535; published May 28, 1946.
Carriages and strollers, Baby. Thayer Company. 423,063; Aug. 20; Serial No. 493,847; published May 28, 1946.
Carriers, Motor-operated vehicular closed. A. Sicard. 423,046; Aug. 20; Serial No. 492,798; published May 28, 1946.
Sailboats, Cruising. M. Seavey. 423,051; Aug. 20; Serial No. 493,149; published May 21, 1946.
Trailers, structural parts for trailers and trucks, single-axle and tandem-axle semi-trailers, etc. Feather Ride, Inc. 423,081; Aug. 20; Serial No. 494,966; published May 28, 1946.
Trucks and loading platforms, Lifting. Stuebing Truck Company. 215,631; renewed July 20, 1946. O. G. Aug. 20.
Vehicles. F. H. McClintock Co. 422,912; Aug. 20; Serial No. 472,150; published May 28, 1946.
Wipers, blades and arms, Wind-shield. Sun Oil Company. 423,090; Aug. 20; Serial No. 496,348; published May 28, 1946.

CLASS 20

Floor coverings, Prepared. Paraffine Companies, Inc. 211,469; renewed Apr. 13, 1946. O. G. Aug. 20, 1946.

CLASS 21

Batteries, Electric. Consolidated Battery Company. 214,614; renewed June 29, 1946. O. G. Aug. 20.
Sweepers, Electric suction. Hoover Company. 216,287; renewed Aug. 10, 1946. O. G. Aug. 20.

CLASS 22

Dolls. Geo. Borgfeldt & Co. 216,200; renewed Aug. 3, 1946. O. G. Aug. 20.
Dolls. Strawbridge & Clothier. 55,583; re-renewed Aug. 14, 1946. O. G. Aug. 20.
Dolls. Three-In-One Doll Corporation. 423,088; Aug. 20; Serial No. 495,637; published May 28, 1946.
Golf clubs, and golf balls. Hillerich & Bradsby Co. 215,239; renewed July 13, 1946. O. G. Aug. 20.
Golf clubs and golf balls. Hillerich & Bradsby Co. 215,563; renewed July 20, 1946. O. G. Aug. 20.
Lawn-tennis rackets, tennis balls, tennis posts, etc. T. H. Prosser Sons Ltd. 218,012; renewed Sept. 14, 1946. O. G. Aug. 20.
Toy rattles. P. E. Allen. 423,113; Aug. 20.
Toy rattles. P. E. Allen. 423,148; Aug. 20.
Toy swings, teeterboards, toy slides, etc. Playcraft Co. 422,972; Aug. 20; Serial No. 487,637; published May 7, 1946.

CLASS 23

Axes and hatchets. Kelly Axe and Tool Company. 210,847; renewed Mar. 23, 1946. O. G. Aug. 20.
Knives, commercial and trade knives, hair clippers, etc., Domestic and pocket. Wester Bros. 217,239; renewed Aug. 31, 1946. O. G. Aug. 20.
Pickers and burring machines and attachments and parts thereof, etc. Curtis & Marble Machine Company. 49,945; re-renewed Feb. 27, 1946. O. G. Aug. 20.
Pickers and burring machines and attachments and parts thereof, etc. Curtis & Marble Machine Company. 49,967; re-renewed Feb. 27, 1946. O. G. Aug. 20.

CLASS 24

Clothesline and reels therefor, Combined. Patent Novelty Company, Incorporated. 214,664; renewed June 29, 1946. O. G. Aug. 20.
Formers, tumblers, puffsets, etc., Garment. I. C. Troutman. 422,953; Aug. 20; Serial No. 485,038; published Oct. 16, 1945.
Laundry pads. John T. Stanley Co., Inc. 215,161; renewed July 13, 1946. O. G. Aug. 20.
Rack, Collapsible clothes drying. A. O. Grombach. 423,032; Aug. 20; Serial No. 491,827; published May 21, 1946.

CLASS 25

Key blanks and keys. C. B. Periolat. 423,124; Aug. 20.

CLASS 26

Computing apparatus, Payroll. P. G. Moses. 423,120; Aug. 20.
Glasses, Reading. Continental Optical Company, Inc. 423,176; Aug. 20.
Photographic dry plates. Hammer Dry Plate Company. 50,931; re-renewed Apr. 3, 1946. O. G. Aug. 20.
Protractors. Cardinell Products. 423,030; Aug. 20; Serial No. 491,749; published May 28, 1946.
Rotor-balancing apparatus. Sperry Gyroscope Company. 423,003; Aug. 20; Serial No. 490,145; published May 21, 1946.
Timing apparatus. Walter Kidde & Company, Inc. 422,955; Aug. 20; Serial No. 485,292; published May 28, 1946.

CLASS 27

Clocks. E. Ingraham Company. 423,034; Aug. 20; Serial No. 491,837; published May 7, 1946.
Clocks, Electric. Rex Cole, Inc. 423,082; Aug. 20; Serial No. 495,013; published May 28, 1946.
Watches. Benrus Watch Company. 423,110; Aug. 20.
Watches and parts of watches. Sauter Freres & Co., Fabrique d'Horlogerie, Pierpont, S. A. 422,974; Aug. 20; Serial No. 487,919; published May 7, 1946.
Watches, clocks, and parts thereof. B. B. Fisher. 423,072; Aug. 20; Serial No. 494,317; published May 28, 1946.

CLASS 28

Bracelets and necklaces. Parfums Charbert, Inc. 423,042; Aug. 20; Serial No. 492,652; published May 21, 1946.
Diamonds. Hi-Honored Diamond Corp. 423,041; Aug. 20; Serial No. 492,628; published May 21, 1946.

Flatware, hollow ware and tableware, Sterling silver and silver plated. National Silver Company. 423,067; Aug. 20; Serial No. 494,105; published May 28, 1946.
Jewelry. J. Bardon. 423,138; Aug. 20.
Jewelry. R. M. Jordan and Company. 422,947; Aug. 20; Serial No. 484,258; published May 28, 1946.
Jewelry. Metro Jewelry Company. 422,915; Aug. 20; Serial No. 474,202; published May 28, 1946.
Jewelry, Articles of. Somers-Ernst Co. Inc. 423,181; Aug. 20.
Jewelry, Costume. L. G. Meyers. 423,080; Aug. 20; Serial No. 494,916; published May 28, 1946.
Pearls, and novelty jewelry, Simulated. Tres Banderas, Inc. 423,078; Aug. 20; Serial No. 494,874; published May 28, 1946.

CLASS 31

Filters and apparatus for purifying water of the type which injects chemicals and adsorptive materials, Water. Titeflex, Inc. 423,029; Aug. 20; Serial No. 491,739; published May 28, 1946.

CLASS 32

Blinds, Venetian. Ajax-Consolidated Company. 423,132; Aug. 20.
Chairs, settees, couches, etc. Buoyant Upholstery Company Limited. 208,580; renewed Feb. 2, 1946, O. G. Aug. 20.
Furniture, Bent-wood. Thonet Brothers. 54,066; re-renewed June 19, 1946. O. G. Aug. 20.
Mattresses. Southern Bedding Company, Inc. 214,943; renewed July 6, 1946. O. G. Aug. 20.
Mattresses and box springs. Sealy Incorporated. 423,186; Aug. 20.

CLASS 33

Glassware, Frosted. Century Metalcraft Corporation. 423,150; Aug. 20.

CLASS 34

Heaters, water-storage heaters, gas heating system, Hot-water. Cleveland Heater Company. 214,345; renewed June 22, 1946. O. G. Aug. 20.
Reflectors for use as fixture units for lighting of buildings and streets, Certain named. Overbagh & Ayers Mfg. Co. 215,593; renewed July 20, 1946. O. G. Aug. 20.

CLASS 35

Patches for automobile and bicycle tires, Automobile repair. L. Rustin. 423,061; Aug. 20; Serial No. 493,569; published May 28, 1946.
Tires and tubes, Pneumatic. Firestone Tire & Rubber Company. 423,139; Aug. 20.

CLASS 36

Musical instruments, and parts thereof, Certain named. Rudolph Wurlitzer Company. 214,557; renewed June 29, 1946. O. G. Aug. 20.
Phonograph records, Mechanically grooved. E. W. Kunzel. 423,119; Aug. 20.
Resin used in conjunction with musical instruments. M. Hausman & Co. 423,200; Aug. 20.

CLASS 37

Binders or files and hand punching devices. Modern Office Devices, Inc. 213,022; renewed May 18, 1946. O. G. Aug. 20.
Book-paper, news-paper, wrapping-paper, etc. International Paper Company. 50,974; re-renewed Apr. 3, 1946. O. G. Aug. 20.
Books, Account. A. G. Bluden. 215,198; renewed July 13, 1946. O. G. Aug. 20.
Books, composition books, combination theme tablets, etc., Note. Western Tablet & Stationery Corporation. 423,008; Aug. 20; Serial No. 490,517; published May 28, 1946.
Cards, Correspondence. H. Farber. 423,177; Aug. 20.
Drafting material and supplies. Eugene Dietzgen Co. 422,942; Aug. 20; Serial No. 483,813; published May 21, 1946.
Film for wrapping and packaging in rolls and/or sheets. Goodyear Tire & Rubber Company. 422,922; Aug. 20; Serial No. 479,120; published May 7, 1946.
Foil, Metallic. Reynolds Metals Company. 423,101; Aug. 20.
Pads, Paper memorandum. Wright Leather Specialty Co. 422,957; Aug. 20; Serial No. 485,484; published May 14, 1946.
Paper, Impregnated wrapping. Shell Union Oil Corporation. 423,006; Aug. 20; Serial No. 490,401; published May 7, 1946.
Paper, Kraft. Southern Advance Bag & Paper Co. Inc 423,096; Aug. 20.
Paper, Toilet. A. J. Hadert. 423,002; Aug. 20; Serial No. 490,117; published May 7, 1946.
Pencil tablets, composition books, note books, etc. Kurtz Bros. 422,991; Aug. 20; Serial No. 489,470; published May 28, 1946.
Pencils, Lead. J. S. Staedtler, Inc. 212,961–4; renewed May 18, 1946. O. G. Aug. 20.
Pens, pen points, and fountain pens, Writing. Bol, Ltd. 422,996; Aug. 20; Serial No. 489,651; published May 28, 1946.
Place mats, Children's paper. Children's Wish Manufacturing Co. 422,938; Aug. 20; Serial No. 483,567; published May 14, 1946.
Stamps bearing chemical indicia, Rubber hand. Chem-Stamps. 422,964; Aug. 20; Serial No. 486,191; published May 14, 1946.
Tissue and paper towels, Toilet. Straubel Paper Company. 423,162; Aug. 20.
Tissue, Toilet. Silklin Paper Corporation. 423,018; Aug. 20; Serial No. 491,172; published May 21, 1946.

CLASS 38

Books, pamphlets, brochures, etc. Douglas Aircraft Company, Inc. 423,091; Aug. 20.
Books, Printed. Royce Publishers. 422,976; Aug. 20; Serial No. 488,126; published May 7, 1946.
Books, Printed. Wm. H. Wise & Co., Inc. 422,983; Aug. 20; Serial No. 489,028; published May 28, 1946.
Bulletins, Industrial sales promotion. S. E. Norcross. 422,936; Aug. 20; Serial No. 481,674; published May 7, 1946.
Calendars. A. D. Burg. 422,926; Aug. 20; Serial No. 479,419; published May 7, 1946.
Calendars, newspapers, price lists, etc., Wall. Brown & Bigelow. 217,752; renewed Sept. 7, 1946. O. G. Aug. 20.
Cards, Greeting. Janes Art Studios, Inc. 423,010; Aug. 20; Serial No. 490,661; published May 28, 1946.
Cartoon feature. E. J. Farris. 423,115; Aug. 20.
Charts, Printed calculating. Unical Import Company. 422,979; Aug. 20; Serial No. 488,495; published May 28, 1946.
Column, Magazine. F-R Publishing Corporation, The. 423,196–8; Aug. 20.
Magazine column, Humorous. F-R Publishing Corporation. 423,106–7; Aug. 20.
Magazine, Musical. Da Capo Music Publishing Corporation. 423,143; Aug. 20.
Magazines and promotional literature. Kalart Company Inc. 422,990; Aug. 20; Serial No. 489,465; published May 28, 1946.
Magazines, Children's. O. Boucquey. 422,980; Aug. 20; Serial No. 488,505; published May 28, 1946.
Newspaper, Regularly issued. Minneapolis Star Journal and Tribune Company. 422,951; Aug. 20; Serial No. 484,850; published May 28, 1946.
Newspaper, Weekly. W. C. & F. P. Church, Incorporated. 49,503; re-renewed Feb. 6, 1946. O. G. Aug. 20.
Paper upon which is printed letters and numerals etc., Transparent adhesive backed. Artype, Incorporated. 423,122; Aug. 20.
Periodical, Cartoon. M. A. Gaines. 423,164; Aug. 20.
Periodical, Pictorial. R. Harrison. 423,009; Aug. 20; Serial No. 490,658; published May 28, 1946.
Periodical. Register and Tribune Company. 217,491; renewed Aug. 31, 1946. O. G. Aug. 20.
Periodicals. General Aniline & Film Corporation. 422,973; Aug. 20; Serial No. 487,676; published May 28, 1946.
Pictures. Sass-Dorne Studio. 422,966; Aug. 20; Serial No. 486,170; published May 28, 1946.
Publication, Monthly pharmaceutical. Business Publishers International Corporation. 423,184; Aug. 20.
Publications. H. W. Nichols Salesbook Company. 423,094; Aug. 20.

CLASS 39

Aprons, caps, and uniforms. Nurses' and waitresses'. Southwestern Jacket Manufacturing Co. 423,114; Aug. 20.
Blouses, gilets, collar and cuff sets, Ladies' and misses'. Sampson & Katzenberg. 423,188; Aug. 20.
Boots and rubber shoes, Rubber. Goodyear Rubber Company. 54,709; re-renewed June 26, 1946. O. G. Aug. 20.
Boots and shoes, Leather and rubber. Endicott Johnson Corporation. 215,664; renewed July 20, 1946. O. G. Aug. 20.
Boots, shoes, and slippers, Leather and cloth. Hanan & Son. 50,970; re-renewed Apr. 3, 1946. O. G. Aug. 20.
Boots, shoes, sandals, etc. Upson's Limited. 423,012; Aug. 20; Serial No. 490,717; published May 28, 1946.
Brassières. Peter Pan Foundations, Inc. 423,121; Aug. 20.
Caps, Aviation. R. Paris. 423,045; Aug. 20; Serial No. 492,786; published May 28, 1946.
Clothing, Men's and young men's. L. J. May. 208,789; renewed Feb. 9, 1946. O. G. Aug. 20.
Coats and suits. Lincolnsfield Mills Corp. 423,130; Aug. 20.
Coats, dresses, jackets, etc., Ladies' and misses'. Plymouth Wholesale Dry Goods Corporation. 423,112; Aug. 20.
Coats, dresses, suits, etc., Women's, misses', and children's. Aiken Stores Inc. 423,180; Aug. 20.
Coats, Men's. Hearn Department Stores, Inc. 423,134; Aug. 20.
Corsets and brassières. E. Kadison. 423,103; Aug. 20.
Dresses, coats, underwear, etc., Women's, misses', and girls'. A. B. Weinberg. 423,166–71; Aug. 20.
Dresses, coats, underwear, etc., Women's, misses', and girls'. A. B. Weinberg. 423,182; Aug. 20.
Dresses, Ladies', misses', and juniors'. Bernard's. 423,102; Aug. 20.

Dresses, suits, outer skirts, etc., Women's. J. Engel, Inc. 423,140; Aug. 20.
Fur linings, Removable. Kroywen Coats. 423,163; Aug. 20.
Garments, Ladies' foundation. Curtis Foundations. 423,157; Aug. 20.
Gloves. Gates, Mills & Driscoll, Inc. 211,828; renewed Apr. 20, 1946. O. G. Aug. 20.
Gloves, garment belts, and scarves for women and misses. B. R. Brody. 422,914; Aug. 20; Serial No. 474,021; published Jan. 30, 1945.
Handkerchiefs. Lehigh Handkerchief Co. 423,049; Aug. 20; Serial No. 492,928; published May 28, 1946.
Hats, Ladies'. J. Collett Limited. 423,026; Aug. 20; Serial No. 491,548; published May 28, 1946.
Hats, Ladies'. Lilly Dache, Inc. 423,127; Aug. 20.
Hats, Ladies'. Goldstein Millinery Company. 423,147; Aug. 20.
Hats, Ladies'. May Department Stores Company. 217,631; renewed Sept. 7, 1946. O. G. Aug. 20.
Hats, Men's. Joseph Kanner Hat Co., Inc. 423,055–6; Aug. 20; Serial Nos. 493,362–3; published May 28, 1946.
Hats, Men's. Miller Bros. Hat Co. Inc. 423,123; Aug. 20.
Hosiery. General Hosiery Company. 217,612; renewed Sept. 7, 1946. O. G. Aug. 20.
Hosiery. General Hosiery Company. 217,773; renewed Sept. 7, 1946. O. G. Aug. 20.
Hosiery. W. P. Harris. 423,194; Aug. 20.
Hosiery. Interwoven Stocking Company. 423,062; Aug. 20; Serial No. 493,686; published May 14, 1946.
Hosiery. Rivoli Hosiery Company. 423,195; Aug. 20.
Hosiery, gloves, ladies' underwear, etc. Julius Kayser & Co. 422,921; Aug. 20; Serial No. 478,818; published May 28, 1946.
Hosiery, sweaters, coats, etc. Niagara Overall and Pants Company, Inc. 203,906; renewed Sept. 29, 1945. O. G. Aug. 20.
Liners for slippers or pumps, Heel. Scholl Manufacturing Company, Inc. 216,979; renewed Aug. 24, 1946. O. G. Aug. 20.
Neckties and bow ties. S. Sherman. 423,145; Aug. 20.
Robes and negligees. A. Klatsko. 423,165; Aug. 20.
Sheets, pillow cases, bedspreads, etc. Schindel-McDaniels Company. 217,430; renewed Aug. 31, 1946. O. G. Aug. 20.
Shoes. Hofheimer Brothers Company. 205,474; renewed Nov. 10, 1945. O. G. Aug. 20.
Shoes. Scholl Mfg. Co., Inc. 422,941; Aug. 20; Serial No. 483,744; published May 21, 1946.
Shoes and slippers. Nath'l Fisher & Co. 217,762; renewed Sept. 7, 1946. O. G. Aug. 20.
Shoes and slippers, Ladies' and misses'. Frederick-Speier Footwear Inc. 423,111; Aug. 20.
Shoes, Ladies'. I. Miller & Sons, Inc. 422,969; Aug. 20; Serial No. 487,051; published May 21, 1946.
Shoes, Leather. Supreme Shoe Company, Inc. 423,187; Aug. 20.
Shoes, Women's. D. Armstrong & Co., Inc. 215,605; renewed July 20, 1946. O. G. Aug. 20.
Slippers. W. Cohan. 423,057; Aug. 20; Serial No. 493,428; published May 28, 1946.
Suits, hats, and outer shirts, and men's and boys' hosiery, Men's. Chicago Mail Order Company. 422,911; Aug. 20; Serial No. 471,657; published May 7, 1946.
Suits, Men's. Hearn Department Stores, Inc. 423,135; Aug. 20.
Sweaters, blouses, jumpers, etc., Ladies', misses', girls', and children's. Whitesons, Inc. 423,199; Aug. 20.
Sweaters, hoods, stockings, etc. A. B. Cooke. 423,031; Aug. 20; Serial No. 491,751; published May 28, 1946.
Undershirts and undershorts, Men's. C. Gutmann. 423,178; Aug. 20.
Underwear and gloves of leather, rubber, fabric, etc., Silk. Gluvsilk Undergarment Co. Inc. 212,052; renewed Apr. 27, 1946. O. G. Aug. 20.

CLASS 40

Braid and millinery braids, Hat. H. Pollak, Inc. 423,126; Aug. 20.
Buttons and buckles. B. Blumenthal & Co., Inc. 423,160; Aug. 20.
Combs. Dr. Heinrich Traun & Söhne. 51,911; re-renewed Apr. 24, 1946. O. G. Aug. 20.
Combs. New York Merchandise Co., Inc. 423,161; Aug. 20.
Loops, featherbone stays, corset stays, etc., Button. Warren Featherbone Co. 423,093; Aug. 20.
Pincushions. R. Schultz. 423,131; Aug. 20.

CLASS 41

Umbrellas and parasols. Gorham Manufacturing Company. 54,077; re-renewed June 19, 1946. O. G. Aug. 20.

CLASS 42

Cotton goods in the piece Winne & Sutch Company. 217,146; renewed Aug. 24, 1946. O. G. Aug. 20.
Fabric of silk and cotton. N. Fluegelman & Co., Inc. 208,669; renewed Feb. 9, 1946. O. G. Aug. 20.

Fabrics made out of artificial silk (rayon) and cotton. H. Ernstberger & Co. 211,002; renewed Mar. 30, 1946. O. G. Aug. 20.
Sheets, pillow cases, bedspreads, etc. Schindel-McDaniels Company. 217,430; renewed Aug. 31, 1946. O. G. Aug. 20.
Silk and wool piece goods. Susquehanna Silk Mills. 212,032; renewed Apr. 27, 1946. O. G. Aug. 20.
Woolens—piece goods. L. F. Hug. 217,556; renewed Sept. 7, 1946. O. G. Aug. 20.

CLASS 45

Ciders. Duffy-Mott Company, Inc. 217,916; renewed Sept. 14, 1946. O. G. Aug. 20.
Extracts, Syrup and flavoring. H. Heiman. 422,956; Aug. 20; Serial No. 485,343; published May 28, 1946.
Sarsaparilla. Cantrell & Cochrane Limited. 55,235; re-renewed Aug. 7, 1946. O. G. Aug. 20.
Soda-water. Cantrell & Cochrane, Ltd. 53,620; re-renewed June 5, 1946. O. G. Aug. 20.
Soft drinks and sirups and extracts, Certain named. G. W. Peverly. 215,482; renewed July 20, 1946. O. G. Aug. 20.
Water, spring water, and nonalcoholic, maltless carbonated beverages, Distilled. Powhatan Spring Water Co. 202,706; renewed Sept. 1, 1945. O. G. Aug. 20.

CLASS 46

Artichokes, Fresh. F. B. Russi & Company. 423,202; Aug. 20.
Birdseed. E. W. Durkee. 217,283; renewed Aug. 31, 1946. O. G. Aug. 20.
Bread. Carolina Baking Company. 213,361; renewed May 25, 1946. O. G. Aug. 20.
Candy bars, candy hollow mold pieces, and candy chocolate pieces, Chocolate. Rockwood & Co. 423,104; Aug. 20.
Candy bars, Chocolate coated. Golden Nugget Sweets Ltd. 422,918; Aug. 20; Serial No. 476,206; published May 14, 1946.
Canned and pickled fruits and vegetables. Victor Preserving Co. 215,845; renewed July 27, 1946. O. G. Aug. 20.
Canned berries, fruits, vegetables, etc., Certain named. Hassendeubel Grocery Company. 216,053; renewed Aug. 3, 1946. O. G. Aug. 20.
Canned berries, fruits, vegetables, etc., Certain named. Hassendeubel Grocery Company. 217,683; renewed Sept. 7, 1946. O. G. Aug. 20.
Canned chicken and turkey meats, with their gravies and jellies. Washington Co-Operative Farmers' Association. 423,058; Aug. 20; Serial No. 493,467; published May 21, 1946.
Canned fruits and canned vegetables. East Jordan Canning Company. 423,156; Aug. 20.
Canned fruits and vegetables, spices, dried beans, etc. Lewis, Hubbard and Company. 211,013; renewed Mar. 30, 1946. O. G. Aug. 20.
Canned or preserved fish. Stavanger Preserving Company Aktieselskab. 217,868; renewed Sept. 14, 1946. O. G. Aug. 20.
Canned sardines. Princeton Packers. 422,965; Aug. 20; Serial No. 486,168; published May 28, 1946.
Cereal-paste goods (foods). John B. Canepa Company. 50,396; re-renewed Mar. 13, 1946. O. G. Aug. 20.
Cheese and Swiss cheese, American. Wisconsin Accredited Cheese Company. 423,133; Aug. 20.
Cheese food, Pasteurized. Michigan Dairy Products Corporation. 422,948; Aug. 20; Serial No. 484,576; published May 21, 1946.
Chicken tamales, canned chili with spaghetti, and canned noodles with chicken and gravy, Canned. F. L. Imel. 423,179; Aug. 20.
Chicks, Baby. Sears, Roebuck and Co. 422,927; Aug. 20; Serial No. 479,535; published May 21, 1946.
Chili. C. G. Carroll. 423,100; Aug. 20.
Chocolates and bonbons. Nunnally Company. 208,186; renewed Jan. 19, 1946. O. G. Aug. 20.
Coffee. Nash Coffee Company. 213,923; renewed June 8, 1946. O. G. Aug. 20.
Coffee. Nash Coffee Company. 214,779; renewed July 6, 1946. O. G. Aug. 20.
Coffee, tea, canned fish, etc. P. R. Myers & Co. 422,923; Aug. 20; Serial No. 479,249; published May 21, 1946.
Coffee, tea, flavoring extract for foods, etc. Jeannes Corporation. 216,986; renewed Aug. 24, 1946. O. G. Aug. 20.
Condiments. Staples Grocery Company, Inc. 211,134; renewed Apr. 6, 1946. O. G. Aug. 20.
Confectionery, Chocolate. W. J. Boon & Company. 212,173; renewed Apr. 27, 1946. O. G. Aug. 20.
Dessert preparations, pudding dessert preparations, cake mix, etc., Gelatine. Mother Hubbard Products Co. 423,098; Aug. 20.
Extracts, Food flavoring. KKK Medicine Company. 213,569; renewed June 1, 1946. O. G. Aug. 20.
Feed, Stock and poultry. Corno Mills Company. 212,771; renewed May 11, 1946. O. G. Aug. 20.
Fish, Smoked dried boneless. A. Aloff. 423,146; Aug. 20.
Flour, Buckwheat and wheat. Little Crow Milling Company. 208,763; renewed Feb. 9, 1946. O. G. Aug. 20.

Flour, Self-raising prepared. Reliable Flour Company. 56,083; re-renewed Aug. 21, 1946. O. G. Aug. 20.
Flour, Wheat. Grosse Pointe Flour Company. 423,060; Aug. 20; Serial No. 493,554; published May 21, 1946.
Flour, Wheat. Rodney Milling Company. 422,937; Aug. 20; Serial No. 481,913; published May 28, 1946.
Food flavorings. Mayhorn Food Products Co. 216,056; renewed Aug. 3, 1946. O. G. Aug. 20.
Fruits and fresh grapes, Fresh deciduous. Pioneer Fruit Company. 214,749; renewed July 6, 1946. O. G. Aug. 20.
Fruits and vegetables, Fresh deciduous. California Co-operative Packaging Association. 423,047; Aug. 20; Serial No. 492,822; published May 28, 1946.
Fruits and vegetables, Frozen fresh deciduous. H. F. Churchill Company. 423,201; Aug. 20.
Fruits, Canned fruit juices for food purposes, canned fish, etc. Hunt Brothers Packing Company. 423,126; Aug. 20.
Fruits, Preserved. Industria Marmellate E Conserve Alimentari. 210,059; renewed May 9, 1946. O. G. Aug. 20.
Fruits, vegetables, sea foods, etc., Certain named. Jonathan Levi Co., Inc. 217,375; renewed Aug. 31, 1946. O. G. Aug. 20.
Juice and pulp, Bottled fruit. Diamond T Preserving Co. 423,048; Aug. 20; Serial No. 492,825; published May 21, 1946.
Milk, Condensed. Michigan Condensed Milk Co. 56,249; re-renewed Sept. 4, 1946. O. G. Aug. 20.
Milk, Evaporated. United Dairy Company. 211,245; renewed Apr. 6, 1946. O. G. Aug. 20.
Oleomargarine. Capital City Dairy Company. 28,095; re-renewed Apr. 7, 1946. O. G. Aug. 20.
Pancake mix, Potato. H. S. Smerkins. 423,109; Aug. 20.
Peanut butter, prepared mustard, and tomato catchup. Union Food Products Co. 215,774; renewed July 27, 1946. O. G. Aug. 20.
Poultry products, Dressed. Pitchal, Inc. 423,137; Aug. 20.
Sandwiches, Ready-made. D. Alvara, Inc. 423,125; Aug. 20.
Sauces, Flavoring and seasoning. S. Kassaps. 423,059; Aug. 20; Serial No. 493,493; published May 21, 1946.
Seasonings. Meat Industry Suppliers, Inc. 423,095; Aug. 20.
Sirup, Malt. Elco Distributing Co. 211,396; renewed Apr. 13, 1946. O. G. Aug. 20.
Stock and poultry feed. Earle-Chesterfield Mill Company. 423,158; Aug. 20.
Syrup, Maple. Cary Maple Sugar Company, Inc. 423,190; Aug. 20.
Syrup, Maple sap. Cary Maple Sugar Company, Inc. 423,191; Aug. 20.
Tea. A. Melrose & Co. 27,864; re-renewed Feb. 25, 1946. O. G. Aug. 20.
Tomatoes and tomato extract, Canned. J. Campbell Preserve Company. 28,162; re-renewed Apr. 21, 1946. O. G. Aug. 20.
Turnips, Pickled. M. Chemas. 217,760; renewed Sept. 7, 1946. O. G. Aug. 20.
Vegetables, Fresh. R. J. Wiley. 423,035; Aug. 20; Serial No. 492,242; published May 28, 1946.

CLASS 47

Champagne. Canandaigua Industries Co. 423,023; Aug. 20; Serial No. 491,396; published May 7, 1946.
Champagne and sparkling Burgundy wines. Canandaigua Industries Co. 423,022; Aug. 20; Serial No. 491,895; published May 7, 1946.
Wine. Modesto Co-Operative Winery, Inc. 422,943–4; Aug. 20; Serial Nos. 483,865–6; published May 7, 1946.
Wine. Upland Winery. 423,040; Aug. 20; Serial No. 492,601; published May 21, 1946.
Wines. De La Salle Institute. 422,998; Aug. 20; Serial No. 489,658; published May 28, 1946.
Wines. Old Mission Wineries. 422,939; Aug. 20; Serial No. 483,661; published May 7, 1946.
Wines. Top Wine Co. 423,052; Aug. 20; Serial No. 493,153; published May 21, 1946.

CLASS 48

Beer and like cereal malt beverages. Grace Bros. Brewing Co. 422,935; Aug. 20; Serial No. 481,407; published May 7, 1946.
Malt sirups. Herrmann Bros. Company. 217,684; renewed Sept. 7, 1946. O. G. Aug. 20.

CLASS 49

Brandy. De La Salle Institute. 422,997; Aug. 20; Serial No. 489,657; published May 28, 1946.
Rum. Goddards, Ltd. 423,087; Aug. 20; Serial No. 495,604; published May 21, 1946.
Rum, gin, whiskey, etc. Compania Cubana de Alcohol, S. A. 422,910; Aug. 20; Serial No. 470,486; published May 7, 1946.
Whiskey and liqueurs, Scotch. William Thorburn, Limited. 422,985; Aug. 20; Serial No. 489,190; published May 28, 1946.
Whiskey, gin, brandy, etc. Records & Goldsborough, Inc. 422,949; Aug. 20; Serial No. 484,589; published May 7, 1946.
Whiskey, Scotch. H. Stone & Co., Ltd. 423,084; Aug. 20; Serial No. 495,196; published May 21, 1946.

CLASS 50

Clamps, Base metal shoe. R. M. Anderson. 423,183; Aug. 20.
Feltings, Paper-makers'. Joseph Porritt & Sons. 54,579; re-renewed June 26, 1946. O. G. Aug. 20.
Kits. S. G. Starr. 423,015; Aug. 20; Serial No. 490,908; published May 21, 1946.
Matrix, dry mat, or board used in stereotyping and electrotyping. Certified Dry Mat Corporation. 423,155; Aug. 20.
Mats or pads, Table. C. A. Brewer & Sons. 423,136; Aug. 20.
Pallets, which are load-supporting platforms, bases, etc. Rathborne, Hair & Ridgway Company. 423,193; Aug. 20.
Sheet material. B. F. Goodrich Company. 422,961; Aug. 20; Serial No. 485,992; published May 21, 1946.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Anderson, Roy J., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Automatic bread toasting apparatus. Re. 22,781; Aug. 20.
Chicago Flexible Shaft Company, assignee: *See*— Anderson, Charles E.
Johns-Manville Corporation, assignee: *See*— Rembert, Ernest W.
Rembert, Ernest W., Hinsdale, Ill., assignor to Johns-Manville Corporation, New York, N. Y. Pipe coupling. Re. 22,782; Aug. 20.

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc., assignee: *See*— Swim, Herbert C.
Swim, Herbert C., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 709; Aug. 20.

LIST OF DESIGN PATENTEES

Allen, Robert L., Battle Creek, Mich. Cab body or the like. 145,414; Aug. 20.
Armstrong, Merle M., San Francisco, Calif. Footstool. 145,415; Aug. 20.
Barofsky, Jack, Los Angeles, Calif. Casing for a piano or similar article. 145,416; Aug. 20.
Bennett, Theodore C., Morton, M. Morton, Philadelphia, and F. M. Gloeckler, Upper Darby, Pa. Airplane. 145,417; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,418; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,419; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,420; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,421; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,422; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,423; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,424; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,425; Aug. 20.
Braunstein, Jules, Los Angeles, Calif. Link chain for a bracelet or similar article. 145,426; Aug. 20.
Copeland, Peter, assignor to S. Schwartz, New York, N. Y. Pocket flashlight or like article. 145,427; Aug. 20.
Corso, Alice V., New York, N. Y. Tablecloth or similar article. 145,428; Aug. 20.
Curtiss-Wright Corporation, assignee: *See*— Kerr, John A., and Mattison.
Dayton Acme Co., assignee: *See*— Stegman, Lester E.
Diamond, Freda, New York, assignor to Syracuse Ornamental Co., Syracuse, N. Y. Mirror frame or the like. 145,429; Aug. 20.
Edson, Enid, New York, N. Y. Compact. 145,430; Aug. 20.
Flanagan, Tyyne D., Chicago, Ill. Fountain pen or the like. 145,431; Aug. 20.
Frascino, Mario, New York, N. Y. Suit. 145,432; Aug. 20.
Freedman, Jules, New York, N. Y. Suit. 145,433; Aug. 20.
Freedman, Jules, New York, N. Y. Suit. 145,434; Aug. 20.
Freedman, Jules, New York, N. Y. Suit. 145,435; Aug. 20.
Freedman, Jules, New York, N. Y. Coat. 145,436; Aug. 20.
Geissler, Edward D., Detroit, Mich. Pistol toy. 145,437; Aug. 20.
Gem Rubber Corporation, assignee: *See*— Gottschalk, Emil.
Gloeckler, Frederick M.: *See*— Bennett, Theodore C., Morton, and Gloeckler.
Goodall, Leonard B., Warrensburg, Mo. Power driven lawn trimmer. 145,438; Aug. 20.
Goodrich, B. F., Company, The, assignee: *See*— L'Hollier, Leslie H.
Gottschalk, Emil, assignor to Gem Rubber Corporation, New York, N. Y. Rubber overshoe. 145,439; Aug. 20.
Graven, Nettie E., Wooster, Ohio. Folding house vehicle or similar article. 145,440; Aug. 20.
Graven, Nettie E., Wooster, Ohio. Folding house vehicle or similar article. 145,441; Aug. 20.
Graw, Harry J., assignee: *See*— Sparks, Byron R.
Groves Shoe Co., assignee: *See*— Ingram, Thomas R.
Hamilton, James C., Lexington, Mass. Flame failure control unit. 145,442; Aug. 20.
Harsany, Louis S., Cleveland, Ohio. Combination chair and table. 145,443; Aug. 20.
Ingalls Shipbuilding Corporation, assignee: *See*— Leavitt, Clyde M.
Ingram, Thomas R., Glen Ellyn, assignor to Groves Shoe Co., Chicago, Ill. Shoe or similar article. 145,444; Aug. 20.
Ingram, Thomas R., Glen Allyn, assignor to Groves Shoe Co., Chicago, Ill. Slipper or similar article. 145,445; Aug. 20.
International Business Machines Corporation, assignee: *See*— Kress, George H.
Jamouneau, Walter C., assignor to Piper Aircraft Corporation, Lock Haven, Pa. Airplane. 145,446; Aug. 20.
Johann, Albert S., Milwaukee, Wis. Hand truck. 145,447; Aug. 20.
Kautzman, Erline H., Everett, Wash. Child's bassinet support. 145,448; Aug. 20.
Kerr, John A., Kenmore, and J. A. Mattison, Williamsville, N. Y., assignors to Curtiss-Wright Corporation. Airplane. 145,449; Aug. 20.
Kress, George H., Johnson City, assignor to International Business Machines Corporation, New York, N. Y. Typewriter. 145,450; Aug. 20.
Leavitt, Clyde M., Pascagoula, Miss., assignor to Ingalls Shipbuilding Corporation. Deck house for a ship. 145,451; Aug. 20.
Lewis, Joseph R., Burbank, Calif. Portable soda fountain. 145,452; Aug. 20.
L'Hollier, Leslie H., Waltham, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Overboot or similar article. 145,453; Aug. 20.
Lipman, Julius, New York, N. Y. Lady's suit. 145,454; Aug. 20.
Mattison, John A.: *See*— Kerr, John A., and Mattison.
Miller, Jerome J., Ottoville, Ohio. Toy airplane. 145,455; Aug. 20.
Moneau Corp. of New York, assignee: *See*— Sussman, Andre.
Morton, Mark: *See*— Bennett, Theodore C., Morton, and Gloeckler.
Natkiel, Harry, assignor to Pinlox Products Co., New York, N. Y. Hair curler. 145,456; Aug. 20.
Paladini, Arcangelo, New York, N. Y. Plaque. 145,457; Aug. 20.
Pinelli, Anthony, Brooklyn, assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Mobile server. 145,458; Aug. 20.
Pinlox Products Co., assignee: *See*— Natkiel, Harry.
Piper Aircraft Corporation, assignee: *See*— Jamouneau, Walter C.
Putterman, Benjamin, Brooklyn, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn. Rear view automobile mirror. 145,459; Aug. 20.

Quality Hardware and Machine Corporation, assignee: *See*—
Snyder, Leland H.
Reeves-Ely Laboratories, Inc., assignee: *See*—
Pinelli, Anthony.
Schwartz, Sidney, assignee: *See*—
Copeland, Peter.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 145,460; Aug. 20.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 145,461; Aug. 20.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 145,462; Aug. 20.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 145,463; Aug. 20.
Slater, Murray, Brooklyn, N. Y. Pin or similar article. 145,464; Aug. 20.
Snyder, Leland H., assignor to Quality Hardware and Machine Corporation, Chicago, Ill. Electric iron or similar article. 145,465; Aug. 20.
Sparks, Byron R., assignor to H. J. Graw, Chicago, Ill. Tripod head. 145,466; Aug. 20.
Speidel, Edwin F. M., Cranston, R. I. Expansible link chain for watch bracelet or the like. 145,467; Aug. 20.
Spence, Nellie B., Springfield, Mo. Stroller. 145,468; Aug. 20.
Stegman, Lester E., assignor to Dayton Acme Co., Cincinnati, Ohio. Flashlight. 145,469; Aug. 20.
Sussman, Andre, assignor to Moneau Corp. of New York, New York, N. Y. Bottle. 145,470; Aug. 20.
Syracuse Ornamental Co., assignee: *See*—
Diamond, Freda.
Wiedenhoeft, Arthur E., Glen Ellyn, Ill. Electric lighting fixture. 145,471; Aug. 20.
Yankee Metal Products Corp., assignee: *See*—
Putterman, Benjamin.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abramson, John H., and E. C. Swanson, assignors to Greenlee Bros. & Co., Rockford, Ill. Conduit bender. 2,405,931; Aug. 20.
Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Nichols, Peter L., Jr., and Hamilton.
Air-Equipment, assignee: *See*—
Garnier, Georges.
Air Reduction Company, Incorporated, assignee: *See*—
Dennis, Wolcott.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Zweifel, Otto.
Alderman, Leon D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Starting mechanism for torpedoes. 2,405,932; Aug. 20.
Alderson, Witty L., Jr., assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del. Polyethylene film-forming composition. 2,405,933; Aug. 20.
Alfandre, Harry, Jamaica, N. Y. Assembling safety pins. 2,405,934; Aug. 20.
Alfthan, Johannes, New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fabricating tape. 2,406,127; Aug. 20.
Allen, Ralph E., Wichita, Kans. Mechanical caddy. 2,406,183; Aug. 20.
Alspaugh, James S., Portsmouth, Ohio. Transmission. 2,406,184; Aug. 20.
American Broach & Machine Co., assignee: *See*—
Lapointe, Francis J.
American Can Company, assignee: *See*—
Dawn, George J.
American Rolling Mill Company, The, assignee: *See*—
Oganowski, Kasimir, Parks, and Coburn.
American Steel Foundries, assignee: *See*—
Clasen, Claus J. W.
Tack, Carl E.
Anderson, Clarence S., Des Moines, Iowa. Silo and tank lug. 2,406,054; Aug. 20.
Anderson, Edmund C., Homewood, assignor to Kensington Steel Company, Chicago, Ill. Belt conveyer. 2,406,279; Aug. 20.
Anderson, James A., Jr., Goose Creek, Tex., assignor to Standard Oil Development Company. Treatment of cracked naphtha. 2,405,935; Aug. 20.
Armstrong Cork Company, assignee: *See*—
King, Ellis G.
Arnold, Orlan M., Troy, N. Y. High-frequency shielding. 2,405,987; Aug. 20.
Asdell, Bernard K.: *See*—
Barrett, William H., and Asdell.
Atlantic Refining Company, The, assignee: *See*—
Ferris, Seymour W.
Atwood Vacuum Machine Company, The, assignee: *See*—
Miller, Kay.
Aubert, Fred B., Grosse Pointe, Mich. Ignition controlling means. 2,406,185; Aug. 20.
Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.
Baker and Co., Inc., assignee: *See*—
Smithells, Colin J.
Baldwin, Alfred W., N. W. Cusa, and H. Worthington, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of surface-active compounds. 2,406,186; Aug. 20.
Ballou, B. A., & Co., Inc., assignee: *See*—
Morehouse, Eugene.
Barber, Lonnie, assignor of twenty per cent to D. Younger, and twenty per cent to W. Glaise, Danville, Va. Fruit picker. 2,406,055; Aug. 20.
Barrett, William, International Falls, assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Coating papers. 2,406,056; Aug. 20.
Barrett, William H., and B. K. Asdell, International Falls, assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn. Coating apparatus. 2,406,057; Aug. 20.
Barry, Arthur J., assignor to The Dow Chemical Company, Midland, Mich. Organo-silicon esters and materials treated therewith. 2,405,988; Aug. 20.
Bartlett, Edward P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Formic acid esters. 2,405,936; Aug. 20.
Bastian Blessing Co., The, assignee: *See*—
Buttner, William C., and Sundstrom.
Bausch & Lomb Optical Company, assignee: *See*—
Flint, Edward F.
Gallasch, George B.
Bayless, Patrick A., Syracuse, N. Y. Pneumodynamic extractor. 2,406,187; Aug. 20.
Beach, Howard D., assignor to Beach Lens Corporation, Buffalo, N. Y. Lens. 2,405,989; Aug. 20.
Beach Lens Corporation, assignee: *See*—
Beach, Howard D.
Beal, Albert H., Houston, Tex. Deviation recording device. 2,405,937; Aug. 20.
Beatty, John T., Kenilworth, and D. L. Bennett, Flossmoor, assignors to United Specialties Company, Chicago, Ill. Mounting for cleaner elements. 2,406,188; Aug. 20.
Beechlyn, John T., Worcester, assignor to Submarine Signal Company, Boston, Mass. Spotting submarines. 2,405,990; Aug. 20.
Beeh, Louis, Long Meadow, Mass. Multiple injection pump. 2,405,938; Aug. 20.
Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bruce, Edmond.
Ellwood, Walter B., and Hill.
Goff, Harold W.
Harry, William R.
Heising, Raymond A.
Lang, Wilmarth Y., and Watson.
Little, John B.
Locke, George A.
McCann, Thomas A.
Myers, Oscar.
Parker, Ralzemond D.
Phelps, Walter A.
Pollard, Charles E., Jr.
Shanck, Roy B.
Stevens, Bruce E.
Swezey, Burdette A.
Wright, Paul L.
Benda, George, Inc., assignee: *See*—
Hillery, Thomas J.
Bendix Aviation Corporation, assignee: *See*—
Boyce, Edward D.
Frank, Frederick C.
Nardone, Romeo M.
Pontius, George W., III, Wilson, and Kuzmitz.
Sloane, Robert W., and Bimberg.
Wirth, Emil O.
Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Fitch, Ellery R.
Beneke, Herman J., Faribault, Minn. Hoe. 2,406,280; Aug. 20.
Bennett, Dale L.: *See*—
Beatty, John T., and Bennett.
Benz, Herbert G., assignee: *See*—
Stephan, Fritz.
Bethlehem Steel Company, assignee: *See*—
Torell, Leland C., and White.
Beverage, Harold H., Riverhead, N. Y., and R. E. Mathes, Westfield, N. J., assignors to Radio Corporation of America. Secrecy system. 2,405,991; Aug. 20.
Billman, Walter, Philadelphia, Pa. Extension plug. 2,406,128; Aug. 20.
Bimberg, Elmer M.: *See*—
Sloane, Robert W., and Bimberg.
Binnall, Frederick C.: *See*—
Russell, Irving H., and Binnall.
Blackburn, Newell F., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Tin plating. 2,406,189; Aug. 20.
Blease, John H., Liverpool, England. Anesthetizing metering apparatus. 2,406,129; Aug. 20.
Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. High-frequency electric discharge device. 2,406,277; Aug. 20.
Boone, Claude T., Sr., Dallas, Tex. Cotton harvesting machine. 2,406,058; Aug. 20.
Borg-Warner Corporation, assignee: *See*—
Kelbel, Donald W.
Nutt, Harold.
Van Voorhees, Harold E.
Boyce, Edward D., Little Falls, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Coil winding apparatus. 2,406,130; Aug. 20.
Branham, Beldon, Springfield, Ohio. Railroad tie. 2,406,131; Aug. 20.
Breman, Frank J.: *See*—
Davidson, William W., and Breman.
Briswold, Gale, and C. H. Cannon, Jr., Columbus, Ohio, assignors to Curtiss-Wright Corporation. Force and motion transmitting mechanism. 2,406,073; Aug. 20.
Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Variable leverage brake. 2,405,939; Aug. 20.
Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna system. 2,405,992; Aug. 20.

Brush Development Company, The, assignee: *See*—
Williams, Alfred L. W., and Dank.
Bucyrus-Erie Company, assignee: *See*—
Reuter, Gottfried.
Budd Company, The, assignee: *See*—
Coombes, Joseph H.
Gaenssle, Paul W.
Hight, Franklin R., Greenshields, and Mueller.
Linnert, Theodore G.
Strickland, Harold A., Jr.
Buhler Brothers, assignee: *See*—
Forster, Albert.
Burch, Charles J., Plainfield, N. J., assignor to The Linde Air Products Company. Spinning hollow articles. 2,406,059; Aug. 20.
Burdick, Charles L., Brighton, England. Apparatus for improving the effective use of eyesight and preventing strain on the eyes. 2,406,190; Aug. 20.
Burk, Robert E., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Reactions with isopentane in the presence of a liquid catalyst. 2,405,993; Aug. 20.
Burk, Robert E., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Averaging propane and pentane. 2,405,994; Aug. 20.
Burk, Robert E. Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Dearomatizing and modifying hydrocarbons with hydrogen fluoride and boron trifluoride. 2,405,995; Aug. 20.
Burk, Robert E., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Averaging hydrocarbons. 2,405,996; Aug. 20.
Burk, Robert E., Novelty, assignor to The Standard Oil Company, Cleveland, Ohio. Averaging with pentane. 2,405,997; Aug. 20.
Burkhardt, Otto M., Euclid, Ohio. Selector cock. 2,405,940; Aug. 20.
Buttner, William C., Winnetka, and S. L. Sundstrom, assignors to The Bastian Blessing Co., Chicago, Ill. Liquefied petroleum gas equipment. 2,405,998; Aug. 20.
Byron, Eve, South Gate, Calif. Hair pin spreader. 2,406,060; Aug. 20.
Cadot, Henry M.: *See*—
Sharkey, William H., Cadot, and Clark.
Calaman, Anthony J., Oswego, N. Y. Tool retainer. 2,406,132; Aug. 20.
Calcott, William S., Woodstown, N. J., and G. E. Holbrook and S. G. Turnbull, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining provitamin D. 2,406,133; Aug. 20.
California Spray-Chemical Corporation, assignee: *See*—
Hansen, James W., and Cassil.
Callaway Mills, assignee: *See*—
Parker, Samuel P.
Cameron, Hugh J., Gary, assignor to E. F. Seifert, Chestertown, Ind. Manufacture of elastic composition suitable for electrical cable insulation. 2,406,191; Aug. 20.
Cameron, Joseph A., Los Angeles, Calif. Tool grinding machine. 2,406,134; Aug. 20.
Camloc Fastener Corporation, assignee: *See*—
Eisele, Karl.
Cannon, Charles H., Jr.: *See*—
Griswold, Gale, and Cannon.
Cantrell, Cyrus D., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Sampling apparatus. 2,406,192; Aug. 20.
Caplan, Solomon: *See*—
Harvey, Mortimer T., and Caplan.
Carnegie-Illinois Steel Corporation, assignee: *See*—
Ehemann, George C., Jr.
Gat, John D., and Snyder.
Heuschkel, Julius.
Carson, George L., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electric motor. 2,406,193; Aug. 20.
Carter, Latt J., Kannapolis, N. C., assignor to Graton & Knight Company, Worcester, Mass. Making checkstraps. 2,406,194; Aug. 20.
Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of the higher chlorides of methane. 2,406,195; Aug. 20.
Cass, Thomas F., Jr., Wayne, assignor to Container Corporation of America, Chicago, Ill. Siftproof carton. 2,406,061; Aug. 20.
Cassil, Carroll C.: *See*—
Hansen, James W., and Cassil.
Cavallero, Luis J.: *See*—
Ziegler, Marc, Visscher, and Cavallero.
Centrifugal & Mechanical Industries, Inc., assignee: *See*—
Howe, Andrew F.
Charis Corporation, assignee: *See*—
Glines, Carl R.
Chavez, Reinaldo C., Santa Rosa, N. Mex. Explosive shell. 2,406,135; Aug. 20.
Chilman, John A., Gloucester, England, assignee to Rotol Limited. Limit switch system. 2,406,196; Aug. 20.
Christensen, Niels A., South Euclid, Ohio. Accumulator. 2,406,197; Aug. 20.
Clark Equipment Company, assignee: *See*—
Lapsley, Robert.
Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,406,198; Aug. 20.
Clark, William B.: *See*—
Sharkey, William H., Cadot, and Clark.
Clasen, Claus J. W., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,406,199; Aug. 20.
Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Automatic heel turning machine. 2,405,941; Aug. 20.
Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Slip last. 2,405,942; Aug. 20.
Coburn, Kenneth G.: *See*—
Oganowski, Kasimir, Parks, and Coburn.
Codet, Howard G.: *See*—
Lynch, Charles S., and Codet.
Cole, Robert M., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Catalytic treatment of hydrocarbon oils. 2,406,200; Aug. 20.
Collar, Gleneth F., and R. C. Young, Seattle, Wash. Crystal filter circuit. 2,405,999; Aug. 20.
Colonial Radio Corporation, assignee: *See*—
Herrold, George V.
Commercial Controls Corporation, assignee: *See*—
Ryan, Commodore D., Dempsey, Straub, and Tyler.
Container Corporation of America, assignee: *See*—
Cass, Thomas F., Jr.
Continental Can Company, Inc., assignee: *See*—
Kronquest, Alfred L.
O'Neil, James H.
Coombes, Joseph H., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake mechanism. 2,406,201; Aug. 20.
Corcoran, James P., West Los Angeles, assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Antibuckling device for film feeding mechanisms. 2,406,136; Aug. 20.
Cornell, Dana R., East Chicago, Ind., assignor to Standard Forgings Corporation, Chicago, Ill. Making dished disk wheels. 2,406,062; Aug. 20.
Cothran, J. D., assignee: *See*—
Miller, Joseph M.
Coxhead, Ralph C., Corporation, assignee: *See*—
Norton, Charles W.
Crane Co., assignee: *See*—
Newton, Norman B., and Fennema.
Crittenden, Philip L., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air compressor. 2,406,202; Aug. 20.
Crowell, Walter S., Melrose Park, Pa., assignor to The S. S. White Dental Manufacturing Company. Dental cement. 2,406,063; Aug. 20.
Cruzan, Harold, and E. C. Warrick, assignors to United Aircrafts Products, Inc., Dayton, Ohio. Automatic oil conditioner. 2,406,203; Aug. 20.
Curtis, Thomas E.: *See*—
Graves, Will T., Jr., and Curtis.
Curtiss-Wright Corporation, assignee: *See*—
Griswold, Gale, and Cannon.
Cusa, Noel W.: *See*—
Baldwin, Alfred W., Cusa, and Worthington.
Dahl, Harry, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc. Contact locating method. 2,406,281; Aug. 20.
Dank, Alfred P.: *See*—
Williams, Alfred L. W., and Dank.
Dansel, Samuel E., Cheyenne, Wyo. Tap operating mechanism. 2,406,204; Aug. 20.
Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber. 2,406,064; Aug. 20.
Davidson Manufacturing Corporation, assignee: *See*—
Davidson, William W., and Breman.
Davidson, William W., Evanston, and F. J. Breman, Chicago, Ill., assignors to Davidson Manufacturing Corporation. Printing press. 2,406,205; Aug. 20.
Dawn, George J., Waukegan, Ill., assignor to American Can Company, New York, N. Y. Conveyer wicket. 2,406,000; Aug. 20.
Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,406,001; Aug. 20.
Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Selector terminal bank. 2,406,002; Aug. 20.
De Filippis, Raymond, New York, N. Y. Automatic mixture regulating device for internal-combustion engines. 2,406,282; Aug. 20.
De Groote, Melvin, University City, B. Keiser, Webster Groves, and A. F. Wirtel, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Hydroxyacetylated drastically-oxidized ricinoleic acid compounds and making same. 2,406,206; Aug. 20.
Dempsey, Frank J.: *See*—
Ryan, Commodore D., Dempsey, Straub, and Tyler.
Dennis, Wolcott, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Method and apparatus for obtaining purified liquid oxygen. 2,406,003; Aug. 20.

Dental Research Corporation, assignee: *See*—
Erdle, Reiner W.
Desmet, John P., Modesto, Calif. Blood treating device. 2,406,207; Aug. 20.
Detroit Lubricator Company, assignee: *See*—
Landon, Walter S.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Monoazo compounds. 2,406,004; Aug. 20.
Dickinson, John T., Basking Ridge, and A. R. Moorman, Alpine, N. J., assignors to Standard Oil Company, Chicago, Ill. Continuous disk filter. 2,406,065; Aug. 20.
Distillation Products, Inc., assignee: *See*—
Hickman, Kenneth C. D.
Doering, Justus H., Detroit, and R. H. McCarroll, assignors to Ford Motor Company, Dearborn, Mich. Tire. 2,405,943; Aug. 20.
Doherty, William H., Elmhurst, N. Y. Sole and heel former. 2,406,005; Aug. 20.
Dormeyer, A. F., Mfg. Company, assignee: *See*—
Kennedy, Verne C.
Dow Chemical Company, The, assignee: *See*—
Barry, Arthur J.
Ryden, Laurence L.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Alderson, Witty L., Jr.
Alfthan, Johannes.
Bartlett, Edward P.
Blackburn, Newell F.
Calcott, William S., Holbrook, and Turnbull.
Cass, Oliver W.
Gresham, William F.
Hanford, William E.
Larson, Alfred T.
Larson, Alfred T., and Krase.
Leekley, Robert M.
Lewis, Ernest E.
Loder, Donald J.
Martin, Elmore L.
McAlevy, Ambrose.
Peters, Franklin T.
Roedel, Milton J.
Scott, William E.
Sharkey, William H., Cadot, and Clark.
Sullivan, David J.
Eastman Kodak Company, assignee: *See*—
Dickey, Joseph B., and McNally.
Eaton, Lewis B., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Infusion bag. 2,406,137; Aug. 20.
Eckhard, William K., Newark, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet feeding mechanism. 2,406,006; Aug. 20.
Edmonds, Eugene A., assignor to Henry Vogt Machine Co. Inc., Louisville, Ky. Direct expansion chiller. 2,405,944; Aug. 20.
Ehemann, George C., Jr., Edgewood, Pa., assignor to Carnegie-Illinois Steel Corporation. Billet severing apparatus. 2,405,945; Aug. 20.
Eisele, Karl, Belleville, N. J., assignor to Camloc Fastener Corporation, New York, N. Y. Fastener. 2,406,007; Aug. 20.
Ellwood, Walter B., New York, N. Y., and H. E. Hill, El Paso, Tex., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Jig. 2,406,008; Aug. 20.
Engelbaugh, Harold E.: *See*—
Gettig, Martin S., and Engelbaugh.
Erdle, Reiner W., assignor to Dental Research Corporation, Chicago, Ill. Ceramic article and material and coloring or shading the same. 2,406,208; Aug. 20.
Etten, Nicholas L., Waterloo, Iowa. Pivotal frame wringer. 2,406,066; Aug. 20.
Eurit, Carl C., Tulsa, Okla. Air-cooled brake shoe. 2,406,067; Aug. 20.
Fairbanks, Morse & Co., assignee: *See*—
Gebert, Sever C.
Fauss, William H., Newport, Ky. Instant release means for parachute. 2,406,209; Aug. 20.
Fennema, Richard: *See*—
Newton, Norman B., and Fennema.
Ferris, Seymour W., Mount Holly, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Controlling wax sweating. 2,406,210; Aug. 20.
Ferris, Walter, Milwaukee, and A. R. Grad, Wauwatosa, assignors to The Oilgear Company, Milwaukee, Wis. Hydrodynamic machine. 2,406,138; Aug. 20.
Fink, Colin G., New York, N. Y., and J. S. Mackay, Prospect Park, Pa. Photocell for measuring long wave radiations. 2,406,139; Aug. 20.
Finken, Walter S.: *See*—
Frieder, Leonard P., and Finken.
Firsching, Joseph A., Utica, N. Y. Cloth measuring device. 2,406,140; Aug. 20.
Fishel, Irvin W., Clemmons, N. C. Mechanical toy. 2,406,283; Aug. 20.
Fitch, Ellery R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Brake mechanism. 2,406,284; Aug. 20.
Flint, Edward F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bubble cell. 2,406,211; Aug. 20.
Food Machinery Corporation, assignee: *See*—
Hait, James M.
Lill, James E.
Ford Motor Company, assignee: *See*—
Doering, Justus H., and McCarroll.
Foreman, Charles S., assignee: *See*—
Zeitz, Arthur H.
Forster, Albert, Milanino, Italy, assignor to Buhler Brothers, Uzwil, Switzerland. Machine for cutting curved, self-conjugate indentations. 2,406,009; Aug. 20.
Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Wheel construction. 2,406,068; Aug. 20.
Fredericks, George E., Meadowbrook, assignor to George E. Fredericks Company, Bethayres, Pa. Gas flow resistance. 2,406,141; Aug. 20.
Fredericks, George E., Company, assignee: *See*—
Fredericks, George E.
Freeman, Walter R., St. Louis County, Mo. Bearing. 2,406,069; Aug. 20.
Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Fabric take-up. 2,406,285; Aug. 20.
Frieder, Leonard P., Rockville Centre, and W. S. Finken, Brooklyn, N. Y.; said Finken assignor to said Frieder. Mechanical release. 2,406,010; Aug. 20.
Funk, Rudolph, Warminster, Pa. Lock nut. 2,406,070; Aug. 20.
Gaenssle, Paul W., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake mechanism. 2,406,212; Aug. 20.
Gallasch, George B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Dust shield. 2,406,213; Aug. 20.
Galter, Jack, Chicago, Ill. Cigar and cigarette lighter. 2,406,071; Aug. 20.
Gantnier, Frank J., assignor of one-half to R. F. Gantnier, Binghamton, N. Y. Automobile license plate. 2,406,286; Aug. 20.
Gantnier, Robert F., assignee: *See*—
Gantnier, Frank J.
Garand, John C., Springfield, Mass. Sight. 2,406,011; Aug. 20.
Gardner-Richardson Company, The, assignee: *See*—
Ringler, William A.
Garnier, Georges, assignor to Air-Equipment, Paris (Seine), France. Cleaner for compressed air arranged for automatic draining. 2,406,214; Aug. 20.
Gat, John D., Edgewood, and S. C. Snyder, Carnegie, assignors to Carnegie-Illinois Steel Corporation. Production of non-aging steel. 2,405,946; Aug. 20.
Gaver, Kenneth M., assignor, by mesne assignments, to The Ohio State University Research Foundation, Columbus, Ohio. Electrodeposition of metals and bath composition therefor. 2,406,072; Aug. 20.
Gebert, Sever C., assignor to Fairbanks, Morse & Co., Chicago, Ill. Overload release coupling. 2,406,142; Aug. 20.
General Electric Company, assignee: *See*—
Bondley, Ralph J.
Godet, Sidney.
Goldberg, Leon J.
Kimball, Arthur L.
Robinson, Percy W.
Stauffer, Lynn H.
Syrovy, Gerald H.
Van Horn, Irving H.
White, George M.
General Motors Corporation, assignee: *See*—
Clark, Kendall.
Georgopoulos, Michael L., Washington, D. C. Ice creeper. 2,406,074; Aug. 20.
Gettig, Martin S., Poland, and H. E. Engelbaugh, assignors to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Escapement mechanism. 2,405,947; Aug. 20.
Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.
Gillette Safety Razor Company, assignee: *See*—
Muros, Joseph.
Glaise, William, et al., assignee: *See*—
Barber, Lonnie.
Glines, Carl R., Hamden, Conn., assignor to Charis Corporation, New York, N. Y. Foundation garment. 2,406,215; Aug. 20.
Global Press, Inc., assignee: *See*—
Raisz, Erwin.
Godet, Sidney, Schenectady, N. Y., assignor to General Electric Company. Follow-up control system. 2,406,143; Aug. 20.
Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mechanical drive device. 2,406,012; Aug. 20.
Goldberg, Leon J., Schenectady, N. Y., assignor to General Electric Company. Electromagnet. 2,406,216; Aug. 20.
Goodlass Wall & Lead Industries Limited, assignee: *See*—
Read, Norman J.
Goodrich, B. F., Company, The, assignee: *See*—
Hollerith, Charles.

Goss Printing Press Company, The, assignee: *See*—
Whitehead, William A.
Grad, Adolf R.: *See*—
Ferris, Walter, and Grad.
Graham Transmissions, Inc., assignee: *See*—
Jones, Lloyd E.
Graton & Knight Company, assignee: *See*—
Carter, Latt J.
Graves, Will T., Jr., and T. E. Curtis, Birmingham, Ala. Fluid control device. 2,406,075; Aug. 20.
Greenlee Bros. & Co., assignee: *See*—
Abramson, John H., and Swanson.
Greenshields, Robert O.: *See*—
Hight, Franklin R., Greenshields, and Mueller.
Greer, Archibald: *See*—
Sands, William J., and Greer.
Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dihaloalkanes and related products. 2,405,948; Aug. 20.
Grew, Dolphis G., Saginaw, Mich. Topper for beets and the like. 2,406,013; Aug. 20.
Grimshaw, Hugh M., Glen Ridge, N. J., assignor to Publication Corporation, New York, N. Y. Applying glue. 2,406,287; Aug. 20.
Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fluid pressure motor. 2,405,949; Aug. 20.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,406,288; Aug. 20.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,406,289; Aug. 20.
Hait, James M., San Gabriel, assignor to Food Machinery Corporation, San Jose, Calif. Amphibian. 2,406,290; Aug. 20.
Hall, Edwin S., Farmington, Conn. Steam engine. 2,406,291; Aug. 20.
Hall, Edwin S., Farmington, Conn., assignor to Rogers Diesel and Aircraft Corporation, New York, N. Y. Engine frame. 2,406,292; Aug. 20.
Hamilton, Robert M.: *See*—
Nichols, Peter L., Jr., and Hamilton.
Hammond, John H., Jr., Gloucester, Mass. Gyrostabilized bomb control system. 2,406,293; Aug. 20.
Hanford, William E., Easton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerizing olefins. 2,405,950; Aug. 20.
Hansen, James W., and C. C. Cassil, Berkeley, assignors to California Spray-Chemical Corporation, Richmond, Calif. Insecticide. 2,406,294; Aug. 20.
Harmon, Jack B.: *See*—
High, Le Roy B., and Harmon.
Harry, William R., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for locating the source of an explosion wave. 2,406,014; Aug. 20.
Hartford National Bank and Trust Company, assignee, trustee: *See*—
Ziegler, Marc, and Kobilsky.
Ziegler, Marc, Visscher, and Cavallero.
Harvel Research Corporation, assignee: *See*—
Harvey, Mortimer T., and Caplan.
Harvey, Mortimer T., South Orange, N. J., and S. Caplan, New York, N. Y., assignors to Harvel Research Corporation. Urea-formaldehyde reaction products and producing the same. 2,406,217; Aug. 20.
Harvey, Mortimer T., South Orange, N. J., and S. Caplan, New York, N. Y., assignors to Harvel Research Corporation. Reaction condensation products of tertiary alkyl ureas and formaldehyde and producing the same. 2,406,218; Aug. 20.
Hathaway, Madeleine P., et al., executors: *See*—
Perkins, Hiram A.
Haynes, Robert, San Francisco, Calif. Mounting for switches and the like. 2,406,295; Aug. 20.
Heil Co., The, assignee: *See*—
Heil, Joseph F., and Samuelsen.
Heil, Joseph F., and A. H. Samuelsen, assignors to The Heil Co., Milwaukee, Wis. Refuse body. 2,406,015; Aug. 20.
Heinemann, Heins: *See*—
La Lande, William A., Jr., and Heinemann.
Heising, Raymond A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicating device. 2,406,016; Aug. 20.
Hemphill Company, assignee: *See*—
Fregeolle, Oscar.
Hercules Powder Company, assignee: *See*—
Rummelsburg, Alfred L.
Herman, William P., Providence, R. I. Contact blade assembly. 2,406,144; Aug. 20.
Herrold, George V., assignor to Colonial Radio Corporation, Buffalo, N. Y. Random sampling machine. 2,405,951; Aug. 20.
Heuschkel, Julius, Mount Lebanon, Pa., assignor to Carnegie-Illinois Steel Corporation. Apparatus for determining weldability. 2,406,076; Aug. 20.
Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Vacuum apparatus. 2,406,017; Aug. 20.
High, Le Roy B., and J. B. Harmon, assignors to The Udylite Corporation, Detroit, Mich. Torch. 2,405,952; Aug. 20.
Hight, Franklin R., and R. O. Greenshields, Detroit, and F. J. Mueller, Grosse Pointe Woods, Mich., assignors, by mesne assignments, to The Budd Company, Philadelphia, Pa. Rolling mill. 2,406,219; Aug. 20.
Hill, Henry E.: *See*—
Ellwood, Walter B., and Hill.
Hillery, Thomas J., assignor to George Benda, Inc., Boonton, N. J. Manufacturing a cellulose ester molding batch having a metallic appearance and the batch produced thereby. 2,405,953; Aug. 20.
Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,406,220; Aug. 20.
Hoe, R., & Co., Inc., assignee: *See*—
Eckard, William K.
Holbrook, George E.: *See*—
Calcott, William S., Holbrook, and Turnbull.
Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Wheel. 2,405,954; Aug. 20.
Holmes, John E., Auburndale, Mass. Fluorescent lighting unit. 2,406,145; Aug. 20.
Holmes, John E., Auburndale, Mass. Fluorescent lighting unit. 2,406,146; Aug. 20.
Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Apparatus for producing metal. 2,406,147; Aug. 20.
Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring system. 2,406,221; Aug. 20.
Houdaille-Hershey Corporation, assignee: *See*—
Jandus, Herbert S.
Howard, Bob, West Los Angeles, Calif. Health cabinet. 2,406,222; Aug. 20.
Howe, Andrew F., University City, assignor to Centrifugal & Mechanical Industries, Inc., St. Louis, Mo. Coal devolatilizer. 2,406,077; Aug. 20.
Hunt, Harold S., Iowa City, Iowa. Carrying case. 2,405,955; Aug. 20.
Hushower, Clarence W., South Bend, Ind. Scaffold bracket. 2,406,078; Aug. 20.
Hydraulic Control Engineering Company, assignee: *See*—
Stephens, William T.
Ifield, Richard J., Birmingham, England, assignor to Joseph Lucas, Limited. Liquid fuel supply device for use with internal-combustion prime movers. 2,406,296; Aug. 20.
Imperial Chemical Industries Limited, assignee: *See*—
Baldwin, Alfred W., Cusa, and Worthington.
Industrial Patents Corporation, assignee: *See*—
Prohaska, James J.
International Standard Electric Corporation, assignee: *See*—
Deakin, Gerald.
Labin, Emile.
Irmischer, Paul H., Chicago, Ill. Lighting apparatus. 2,406,223; Aug. 20.
Irmscher, Hans O., East Hempstead, Long Island, assignor to National Urn Bag Co., Inc., Long Island City, N. Y. Manufacturing infusion packages. 2,406,018; Aug. 20.
Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever assembly. 2,405,956; Aug. 20.
Jany, José, Sao Paulo, Brazil. Arrangement for the distant viewing of radioscopic images. 2,406,148; Aug. 20.
Jeni, Jesse B., Festus, Mo. Screw driver. 2,406,149; Aug. 20.
Jenkins, Arthur M., Oakland, Calif. Clip or fastener for stovepipes and the like. 2,406,224; Aug. 20.
Johnston, Alexander, assignor to The North British Rubber Company Limited, Edinburgh, Scotland. Regeneration of waste rubber. 2,406,297; Aug. 20.
Jones, Lloyd E., assignor to Graham Transmissions, Inc., Milwaukee, Wis. Variable-speed transmission. 2,405,957; Aug. 20.
Julyan, Fred G.: *See*—
Schweidkart, William M., and Julyan.
Kane, James E. J.: *See*—
Schneider, Helmuth G., and Kane.
Kaiser, Bernhard: *See*—
De Groote, Melvin, Kaiser, and Wirtel.
Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,406,225; Aug. 20.
Kelley, Joseph J., Tucson, Ariz. Fountain pen. 2,405,958; Aug. 20.
Kellogg, M. W., Company, assignee: *See*—
Hopkins, Robert K.
Kennedy, Verne C., Evanston, Ill., assignor to A. F. Dormeyer Mfg. Company. Power unit. 2,406,150; Aug. 20.
Kensington Steel Company, assignee: *See*—
Anderson, Edmund C.
Kiel, Julius H., et al., assignees: *See*—
Owen, Ira J.

Kiel, Robert B., et al., assignees: *See*—
Owen Ira J.
Kimball, Arthur L., Schenectady, N. Y., assignor to General Electric Company. Washing machine. 2,406,226; Aug. 20.
King, Ellis G., Pittsburgh, assignor to Armstrong Cork Company, Lancaster, Pa. Container closure. 2,406,227; Aug. 20.
King, Ellis G., Pittsburgh, assignor to Armstrong Cork Company, Lancaster, Pa. Container closure. 2,406,298; Aug. 20.
Kobilsky, Manuel J.: *See*—
Ziegler, Marc, and Kobilsky.
Koulicovitch, Maurice, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Machine tool and photoelectric positioning of the work table. 2,406,299; Aug. 20.
Krase, Norman W.: *See*—
Larson, Alfred T., and Krase.
Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Can end marking means. 2,406,151; Aug. 20.
Krueger, Fred G., Norwood, Ohio. Washer lug. 2,406,079; Aug. 20.
Kuhl, Paul E., Madison, and R. M. Shepardson, Cranford, N. J., assignors to Standard Oil Development Company. Treating hydrocarbon fluid. 2,405,959; Aug. 20.
Kuzmitz, Frank V.: *See*—
Pontius, George W., III, Wilson, and Kuzmitz.
Labin, Emile, assignor to International Standard Electric Corporation, New York, N. Y. Pulse modulation system. 2,406,019; Aug. 20.
Laird, James M., Charleston, W. Va. Testing assembly. 2,406,080; Aug. 20.
La Lande, William A., Jr., and H. Heinemann, Upper Darby, assignor to Porocel Corporation, Philadelphia, Pa. Polymerization of olefin hydrocarbons. 2,406,081; Aug. 20.
Lamphere, P. H., et al., assignees: *See*—
Mathieson, Colin W.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Collimating system. 2,405,960; Aug. 20.
Landon, Walter S., Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich. Burner control means. 2,406,228; Aug. 20.
Lang, Wilmarth Y., Towaco, N. J., and E. F. Watson, Larchmont, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph signal enciphering mechanism. 2,406,020; Aug. 20.
Lange, Edward H., Baltimore, Md. Electronic frequency-control device. 2,406,082; Aug. 20.
Lapointe, Francis J., assignor to American Broach & Machine Co., Ann Arbor, Mich. Pull head for broaching machines. 2,405,961; Aug. 20.
Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Transmission. 2,406,083; Aug. 20.
Larson, Alfred T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Co-oxidation reaction. 2,405,963; Aug. 20.
Larson, Alfred T., Wilmington, Del., and N. W. Krase, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerizing ethylene. 2,405,962; Aug. 20.
Lauria, Ralph, Cleveland Heights, Ohio. Convertible pocket for garments. 2,405,964; Aug. 20.
Leekley, Robert M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymide emulsions. 2,405,965; Aug. 20.
Leinweber, William H., Chicago, Ill. Fluid compressor. 2,406,229; Aug. 20.
Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Scraper. 2,406,300; Aug. 20.
Levin, Abraham J., Detroit, Mich. Ship or vessel. 2,406,084; Aug. 20.
Levine, William, Los Angeles, Calif. Recording camera. 2,406,152; Aug. 30.
Levy, René L., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland. Self-cooling wheel. 2,406,303; Aug. 20.
Levy, René L., Paris France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. Geneva, Switzerland. Device and system for the braking of vehicles. 2,406,304; Aug. 20.
Lewis, Ernest E., Lyndhurst, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Depolymerization of polymeric tetrafluoroethylene. 2,406,153; Aug. 20.
Lill, James E., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Tractor sprocket drive. 2,406,230; Aug. 20.
Lima, Héctor C., Habana, Cuba. Loader for revolvers. 2,406,231; Aug. 20.
Lima, Héctor C., Habana, Cuba. Loader for revolvers. 2,406,232; Aug. 20.
Linde Air Products Company, The, assignee: *See*—
Burch, Charles J.
Link, Edwin A., Binghamton, N. Y. Sectional canoe or the like. 2,406,085; Aug. 20.
Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of isoparaffinic hydrocarbons. 2,406,086; Aug. 20.
Linnert, Theodore G., Philadelphia, Pa., assignor to The Bud Company, Philadelphia, Pa. Airplane control surface locking means. 2,406,233; Aug. 20.
Little, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sealed reed contact device. 2,406,021; Aug. 20.
Little, Mary R., Harrisonburg, Va. Electric hem presser for sewing machines. 2,406,022; Aug. 20.
Lively, James W., San Jose, Calif. Sealed moistureproof paper package. 2,406,301; Aug. 20.
Locke, George A., Glenwood Landing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter signal enciphering system. 2,406,023; Aug. 20.
Locke Insulator Corporation, assignee: *See*—
McCoy, Robert L.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of nitriles. 2,405,966; Aug. 20.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acids and esters thereof. 2,405,967; Aug. 20.
Lord Manufacturing Company, assignee: *See*—
Roche, Paul C.
Lucas, Joseph, Limited, assignee: *See*—
Ifield, Richard J.
Lunzer, Fritz, et al., assignees: *See*—
Weiss, Gerhart.
Lynch, Charles S., Plainfield, and H. G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company. Alkylation of ethylene mixed feeds. 2,405,968; Aug. 20.
Mackay, Johnstone S.: *See*—
Fink, Colin G., and Mackay.
Mallory, Marion, Detroit, Mich. Valve. 2,406,087; Aug. 20.
Mallory, P. R. & Co., Inc., assignee: *See*—
Dahl, Harry.
Marancik, Joseph V., Roselle, and R. F. Mildrum, Hillside, N. J., assignors to Standard Oil Development Company. Expansion joint. 2,406,234; Aug. 20.
Martin, Elmore L., Edgemoor Terrace, Wilmington, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of epsilon-caprolactam. 2,405,969; Aug. 20.
Martin, Perry S., Harrisonburg, Pa. Heat regulator. 2,406,088; Aug. 20.
Martineau, Joseph A. E., Penticton, Province of British Columbia, Canada. Rotary barrel gun. 2,406,089; Aug. 20.
Mas, George N., Washington, D. C. Protecting shield. 2,406,090; Aug. 20.
Mathes, Richard E.: *See*—
Beverage, Harold H., and Mathes.
Mathews, Martin D., Indianapolis, Ind. Insulator. 2,406,095; Aug. 20.
Mathieson, Colin W., Sedalia, assignor of thirty per cent to J. Q. Strong, Ladue, Mo., and fifteen per cent to P. H. Lamphere, Denver, Colo. Shoe platform. 2,406,091; Aug. 20.
Mattoon, Charles H., Kalamazoo, Mich. Sanding apparatus for road vehicles. 2,405,970; Aug. 20.
Maurer, Anton A., assignor to Norcor Manufacturing Company, Inc., Green Bay, Wis. Folding chair. 2,406,305; Aug. 20.
McAlevy, Ambrose, Kennett Square, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Halogenated polyethylene. 2,405,971; Aug. 20.
McCann, Thomas A., Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Key tape device for enciphering telegraph signals. 2,406,024; Aug. 20.
McCarroll, Russell H.: *See*—
Doering, Justus H., and McCarroll.
McCoy, Robert L., Baltimore, Md., assignor to Locke Insulator Corporation. Porcelain pipe. 2,406,235; Aug. 20.
McCrum, Arthur C., Kansas City, Mo. Producing prescription. 2,405,972; Aug. 20.
McDougall, Alexander M., San Francisco, Calif. Vessel and handling same. 2,406,236; Aug. 20.
McNally, James G.: *See*—
Bickey, Joseph B., and McNally.
McNally-Pittsburgh Manufacturing Corporation, The, assignee: *See*—
Patterson, Charles H. J.
Medlin, Milton, Brooklyn, N. Y. Fused electrical plug. 2,406,154; Aug. 20.
Merck & Co., Inc., assignee: *See*—
Stokes, Jacob L.
Messenger, Robert W., Salisbury, Md. Making strip blanks for cans from long and wide metal stock. 2,406,155; Aug. 20.
Meyer, Roger E., St. Paul, Minn. Auxiliary eyeshield and welding hood. 2,406,092; Aug. 20.
Mildrum, Roy F.: *See*—
Marancik, Joseph V., and Mildrum.
Milkoff, John, New York, N. Y. Combined carrying case and table. 2,406,237; Aug. 20.

Miller, Edwin, Jeannette, Pa. Tire building apparatus. 2,406,093; Aug. 20.

Miller, Joseph M., Littleton, Colo., assignor to J. D. Cothran, Grass Lake, Mich. Knife and scissor sharpener. 2,406,094; Aug. 20.

Miller, Kay, Auburn, Ind., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Two-way clutch. 2,406,238; Aug. 20.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minnesota and Ontario Paper Company, assignee: *See*—
Barrett, William.
Barrett, William H., and Asdell.

Moor, Herman L., Olive Township, St. Joseph County, Ind. Pipe forming machine. 2,406,025; Aug. 20.

Moorman, Arthur R.: *See*—
Dickinson, John T., and Moorman.

Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Inc. Separable members. 2,406,026; Aug. 20.

Morgan, Quinton P.: *See*—
Wampler, Ivan W., and Morgan.

Morgenroth, Henri, Los Angeles, Calif. Liquid metering and distributing apparatus. 2,406,239; Aug. 20.

Morgenroth, Henri, Los Angeles, Calif. Liquid metering and distributing apparatus. 2,406,240; Aug. 20.

Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe supporting jack. 2,406,306; Aug. 20.

Morrison, Montford, Upper Montclair, N. J. Electronic regenerative repeater. 2,406,096; Aug. 20.

Morrison, Willard L., Lake Forest, Ill. Refrigerated truck. 2,406,241; Aug. 20.

Morton, Avery A., Watertown, Mass. Producing white sodium rosinates. 2,406,097; Aug. 20.

Mueller, Friedrich J.: *See*—
Hight, Franklin R., Greeshields, and Mueller.

Munro, Gordon, Bremerton, Wash. Data exhibitor. 2,406,027; Aug. 20.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Protected blade and package. 2,406,242; Aug. 20.

Musgrave, Howard G., Newton, and N. G. Olson, Boston, Mass. Index actuating mechanism. 2,406,098; Aug. 20.

Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit maker and breaker. 2,406,028; Aug. 20.

Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Control device for hoisting mechanism. 2,406,156; Aug. 20.

National Urn Bag Co., Inc., assignee: *See*—
Irmscher, Hans O.

Nelson, Nels H., Minneapolis, Minn. Dirigible airship. 2,406,302; Aug. 20.

Nelson, Richard E., assignor to Universal Development Company, Spokane, Wash. Rivet. 2,406,157; Aug. 20.

Nettesheim, Peter W., Chicago, Ill. Bed lamp. 2,406,029; Aug. 20.

Newport, Alba, Kokomo, Ind. Hand truck. 2,406,158; Aug. 20.

Newton, Norman B., and R. Fennema, assignors to Crane Co., Chicago, Ill. Valve. 2,406,243; Aug. 20.

Nichols, Peter L., Jr., and R. M. Hamilton, Philadelphia, Pa., assignors to United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Preparation of starch ethers. 2,405,973; Aug. 20.

Norcor Manufacturing Company, Inc., assignee: *See*—
Maurer, Anton A.

North British Rubber Company Limited, assignee: *See*—
Johnston, Alexander.

Norton, Charles W., West Orange, N. J., assignor to Ralph C. Coxhead Corporation, New York, N. Y. Typewriter for justifying lines. 2,405,974; Aug. 20.

Nutt, Harold, assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,406,244; Aug. 20.

O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Locking device for electrical connectors. 2,406,030; Aug. 20.

Oganowski, Kasimir, Franklin, N. W. Parks, Lemon Township, Butler County, and K. G. Coburn, assignors to The American Rolling Mill Company, Middletown, Ohio. Coating ferrous metals with aluminum. 2,406,245; Aug. 20.

Ogden, Hubert S., Los Angeles, Calif. Valve. 2,406,246; Aug. 20.

Ohio State University Research Foundation, The, assignee: *See*—
Gaver, Kenneth M.

Oilgear Company, The, assignee: *See*—
Ferris, Walter, and Grad.

Olson, Andrew R.: *See*—
St. Clair, Theodore A., Sievers, and Olson.

Olson, Nils G.: *See*—
Musgrave, Howard G., and Olson.

O'Neil, James H., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Stationary scraper on solder roll. 2,406,159; Aug. 20.

Otteson, Otto C., Racine, Wis. Razor blade holder. 2,406,160; Aug. 20.

Owen, Ira J., Laguna Beach, Calif., assignor to J. H. and R. B. Kiel, Wilmette, Ill. Floor cleaning machine. 2,406,247; Aug. 20.

Packard, Edwin A., Yonkers, N. Y. Liquid solids separation apparatus. 2,406,248; Aug. 20.

Parfentjev, Ivan A., Nanuet, N. Y. Salvage from fish viscera. 2,406,249; Aug. 20.

Parker, Ralzemond D., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph ciphering key tape machine. 2,406,031; Aug. 20.

Parker, Ralzemond D., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph signal enciphering mechanism. 2,406,032; Aug. 20.

Parker, Samuel P., assignor to Callaway Mills, La Grange, Ga. Loom. 2,405,975; Aug. 20.

Parks, Noel W.: *See*—
Oganowski, Kasimir, Parks, and Coburn.

Pateras Pescara, Raul, Lisbon, Portugal. Cylinder construction. 2,406,100; Aug. 20.

Patterson, Charles H. J., assignor to The McNally-Pittsburg Manufacturing Corporation, Pittsburg, Kans. Gate mechanism for mechanical concentrating devices. 2,405,976; Aug. 20.

Paymer, Joseph, Brooklyn, N. Y. Motor vehicle attachment. 2,406,161; Aug. 20.

Pedersen, Rasmus P., Cody, Wyo. Lawn mower sharpener. 2,406,162; Aug. 20.

Penick, Arthur J., Houston, Tex. Valve assembly. 2,406,099; Aug. 20.

Perkins, Hiram A., deceased, by S. L. Perkins, Rochester, N. Y., and M. P. Hathaway, of Essex County, N. J., executors, assignors to Setter Bros. Inc., Cattaraugus, N. Y. Apparatus for the manufacture of convoluted rods. 2,406,033; Aug. 20.

Perkins, Stuart L., et al., executors: *See*—
Perkins, Hiram A.

Peters, Franklin T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Film manufacture. 2,405,977; Aug. 20.

Peterson, George S.: *See*—
Walsh, Bruce R., and Peterson.

Petouhoff, Justin D., New York, N. Y. Life raft release. 2,406,250; Aug. 20.

Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin, Keiser, and Wirtel.

Phelps, Walter A., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier wave signaling system. 2,406,034; Aug. 20.

Philco Corporation, assignee: *See*—
Carson, George L.

Phillips Petroleum Company, assignee: *See*—
Cantrell, Cyrus D., Jr.
St. Clair, Theodore A., Sievers, and Olson.
Schulze, Walter A.

Pickles, John: *See*—
Pickles, Robert, and J.

Pickles, Robert and J. Cairo Mill, Burnley, England. Manufacture of artificial fibrous sheet material. 2,405,978; Aug. 20.

Pierce, John B., Foundation, assignee: *See*—
O'Brien, Joseph F.

Pinkas, David, Norwalk, Conn. Razor. 2,406,035; Aug. 20.

Pipping, Alf, Bloomfield, N. J. Ampoule sealing machine. 2,406,101; Aug. 20.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Eaton, Lewis B.
Vergobbi, Robert W.

Pocahontas Fuel Company Incorporated, assignee: *See*—
Schweickart, William M., and Julyan.

Polaroid Corporation, assignee: *See*—
Land, Edwin H.

Pollard, Charles E., Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sealed contact device. 2,406,036; Aug. 20.

Pontius, George W., III, A. P. Wilson, and F. V. Kuzmitz, assignors to Bendix Aviation Corporation, South Bend, Ind. Trigger system for gun turrets. 2,406,102; Aug. 20.

Porcelli, Frank, Rego Park, N. Y. Toy clock. 2,406,251; Aug. 20.

Porocel Corporation, assignee: *See*—
La Lande, William A., Jr., and Heinemann.

Porzelt, Paul, et al., assignee: *See*—
Weiss, Gerhart.

Potter, Joseph L., Indianapolis, Ind. Fishing device. 2,406,252; Aug. 20.

Prohaska, James J., assignor to Industrial Patents Corporation, Chicago, Ill. Sausage linking machine. 2,406,163; Aug. 20.

Publication Corporation, assignee: *See*—
Grimshaw, Hugh M.

Quinn, Peter F., Racine, Wis. Machine for cutting food products. 2,406,107; Aug. 20.

Radio Corporation of America, assignee: *See*—
Beverage, Harold H., and Mathes.
Schroeder, Alfred C.
Sheffield, Berthold.
Spencer, James A., and Reinhold.
Szilkai, George C.
Young, Arthur J.
Young, Lloyd L.

Raisz, Erwin, Cambridge, Mass., assignor to Global Press, Inc., New York, N. Y. Knockdown globular shell. 2,406,164; Aug. 20.

Ramsey, Robert P., Hamilton, Ohio. Casing structure for internal-combustion free piston engine. 2,406,037; Aug. 20.

Randall, Clark C., Oak Park, Ill. Crankcase scavenger. 2,406,103; Aug. 20.

Ranney, Percival K., Lakewood, Ohio. Electrical system and apparatus. 2,406,104; Aug. 20.

Read, Norman J., Greenford, assignor to Goodlass Wall & Lead Industries Limited. Oxted, Surrey, England. Anticorrosive paint. 2,406,307; Aug. 20.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Friction-tipped belt block. 2,406,253; Aug. 20.

Reeves Pulley Company, assignee: *See*—
Reeves, Paul B.

Reinhold, Leonhard F.: *See*—
Spencer, James A., and Reinhold.

Republic Flow Meters Company, assignee: *See*—
Rosenberger, Albert J.

Reuter, Gottfried, South Milwaukee, assignor to Bucyrus-Erie Company, Milwaukee, Wis. Support for clutch bands. 2,406,038; Aug. 20.

Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Berry box or the like. 2,406,254; Aug. 20.

Robertson, H. H., Company, assignee: *See*—
Shumaker, Lucky J.

Robinson, Percy W., Scotia, N. Y., assignor to General Electric Company. Induction motor control system. 2,406,255; Aug. 20.

Roche, Paul C., Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa. Mounting. 2,406,256; Aug. 20.

Roedel, Milton J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated metal article. 2,406,039; Aug. 20.

Rogers Diesel and Aircraft Corporation, assignee: *See*—
Hall, Edwin S.

Rogers, Edwin W. and R., Alexandria Bay, N. Y. Meat grinder attachment. 2,406,105; Aug. 20.

Rogers, Raymond: *See*—
Rogers, Edwin W. and R.

Romero, Albert R., Tucson, Ariz. Permanent safety lock device for bicycles and the like. 2,406,257; Aug. 20.

Rosenberger, Albert J., assignor to Republic Flow Meters Company, Chicago, Ill. Pressure reproducing instrument. 2,405,979; Aug. 20.

Roth, William A., St. Paul, Minn. Piston. 2,406,258; Aug. 20.

Rotol Limited, assignee: *See*—
Chilman, John A.

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivatives. 2,406,106; Aug. 20.

Russell, Irving H., Oak Park, and F. C. Binnall, River Forest, assignors to Sloan Valve Company, Chicago, Ill. Flush valve. 2,406,259; Aug. 20.

Ryan, Commodore D., Los Angeles, F. J. Dempsey, Huntington Park, F. A. Straub, Los Angeles, and B. S. Tyler, Inglewood, Calif., assignors to Commercial Controls Corporation. Printing machine. 2,406,040; Aug. 20.

Ryden, Laurence L., Midland, Mich., assignor to The Dow Chemical Company. Polysulphide polymer. 2,406,260; Aug. 20.

St. Clair, Theodore A., C. F. Sievers, and A. R. Olson, Bartlesville, Okla., assignors to Phillips Petroleum Company. Automatic container filling device. 2,406,263; Aug. 20.

Samuelsen, Arthur H.: *See*—
Heil, Joseph F., and Samuelsen.

Sands, William J., and A. Greer, Belfast, Northern Ireland. Hitch connecting trailed devices to tractive vehicles. 2,405,980; Aug. 20.

Schellenberg, Albert, Joliet, Ill. Rinse wringer. 2,406,108; Aug. 20.

Schellenberg, Albert, Joliet, Ill. Rinse wringer. 2,406,109; Aug. 20.

Schield, Vern L., Waverly, Iowa. Earth moving device. 2,405,981; Aug. 20.

Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of hydrocarbons. 2,406,110; Aug. 20.

Schneider, Helmuth G., Roselle, and J. E. J. Kane, Elizabeth, N. J., assignors to Standard Oil Development Company. Chemical process. 2,406,041; Aug. 20.

Schroeder, Alfred C., Feasterville, Pa., assignor to Radio Corporation of America. Communication system. 2,406,165; Aug. 20.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic hydrocarbon conversion. 2,406,112; Aug. 20.

Schweickart, William M., and F. G. Julyan, Euclid, Ohio, assignors to Pocahontas Fuel Company Incorporated, New York, N. Y. Stoker. 2,405,982; Aug. 20.

Scott, William E., Drexel Hill, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Instrument for measuring reflectance. 2,406,166; Aug. 20.

Scripto Manufacturing Company, assignee: *See*—
Smith, Blanchard D.

Seals, Kyrle F., Lamar, Colo. Jar cap applying and removing device. 2,406,167; Aug. 20.

Seifert, Edgar F., assignee: *See*—
Cameron, Hugh J.

Setter Bros. Inc., assignee: *See*—
Perkins, Hiram A.

Shanck, Roy B., Douglas Manor, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier telegraph system. 2,406,042; Aug. 20.

Sharkey, William H., Wilmington, H. M. Cadot, Greenville, and W. B. Clark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Adhesive composition derived from hydrolyzed ethylene-vinyl acetate interpolymers. 2,405,983; Aug. 20.

Sharpe, Charles M., San Francisco, Calif. Electric cooker. 2,405,984; Aug. 20.

Sheffield, Berthold, Rocky Point, N. Y., assignor to Radio Corporation of America. Radio submarine lure and trap. 2,406,111; Aug. 20.

Shell Development Company, assignee: *See*—
Cole, Robert M.

Shepardson, Robert M.: *See*—
Kuhl, Paul E., and Shepardson.

Shumaker, Lucky J., Bellevue, assignor to H. H. Robertson Company, Pittsburgh, Pa. Ventilating apparatus. 2,406,168; Aug. 20.

Sievers, Carl F.: *See*—
St. Clair, Theodore A., Sievers, and Olson.

Silver, Samuel R., Brooklyn, N. Y. Grinding teeth. 2,406,113; Aug. 20.

Sirman, Guarling F., North Miami, Fla. Pushcart. 2,406,169; Aug. 20.

Sloan Valve Company, assignee: *See*—
Russell, Irving H., and Binnall.

Sloane, Robert W., and E. M. Bimberg, Detroit, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,406,114; Aug. 20.

Smiley, Gerald T., San Fernando, Calif. Cartridge case trimmer. 2,406,170; Aug. 20.

Smith, Blanchard D., assignor to Scripto Manufacturing Company, Atlanta, Ga. Mechanical pencil. 2,406,171; Aug. 20.

Smithells, Colin J., Rugby, England, assignor, by mesne assignments, to Baker and Co., Inc., Newark, N. J. Platinum or allied metals, or their alloys, and articles made therefrom. 2,406,172; Aug. 20.

Snyder, Saylor C.: *See*—
Gat, John D., and Snyder.

Societe d'Inventions Aeronautiques et Mecaniques S.I.A.M., assignee: *See*—
Levy René L.

Societe Genevoise d'Instruments de Physique, assignee: *See*—
Koulicovitch, Maurice.

Sorensen, Otto E., Fairfield, Conn. Fixture for holding and measuring work at selective angles. 2,406,043; Aug. 20.

Spencer, James A., Teaneck, N. J., and L. F. Reinhold, Staten Island, N. Y., assignors to Radio Corporation of America. Selecting mechanism. 2,406,044; Aug. 20.

Sprinkel, Robert B., Washington, D. C. Dual control operating mechanism for motor vehicles. 2,406,261; Aug. 20.

Standard Forgings Corporation, assignee: *See*—
Cornell, Dana R.

Standard Oil Company, assignee: *See*—
Dickinson, John T., and Moorman.

Standard Oil Company, The, assignee: *See*—
Burk, Robert E.

Standard Oil Development Company, assignee: *See*—
Anderson, James A., Jr.
Kuhl, Paul E., and Shepardson.
Lynch, Charles S., and Codet.
Marancik, Joseph V., and Mildrum.
Schneider, Helmuth G., and Kane.
Welty, Albert B., Jr.

Stauffer, Lynn H., Pattersonville, N. Y., assignor to General Electric Company. Current collector. 2,406,262; Aug. 20.

Stephan, Fritz, Minneapolis, assignor to H. G. Benz, St. Paul, Minn. Charge forming system. 2,406,115; Aug. 20.

Stephens, William T., assignor to Hydraulic Control Engineering Company, Cleveland, Ohio. Servomotor and control thereof. 2,406,173; Aug. 20.

Stevens, Bruce E., Demarest, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inductance device. 2,406,045; Aug. 20.

Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,406,264; Aug. 20.

Stokes, Edward A.: *See*—
Vokes, Cecil G., and Stokes.

Stokes, Jacob L., Scotch Plains, assignor to Merck & Co., Inc., Rahway, N. J. Bacterial processes. 2,406,174; Aug. 20.
Straub, Fred A.: *See*—
Ryan, Commodore D., Dempsey, Straub, and Tyler.
Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments to The Budd Company, Philadelphia, Pa. Induction heating apparatus. 2,406,985; Aug. 20.
Strong, Jules Q., et al., assignee: *See*—
Mathieson, Colin W.
Submarine Signal Company, assignee: *See*—
Beechlyn, John T.
Sullivan, David J., Fairfield, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fuel container. 2,405,986; Aug. 20.
Sundstrom, Savin L.: *See*—
Buttner, William C., and Sundstrom.
Svenska Aktiebolaget Bromsregulator, assignee: *See*—
Browall, Bert H.
Swanson, Edwin C.: *See*—
Abramson, John H., and Swanson.
Swezey, Burdette S., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph signal enciphering key tape producing device. 2,406,046; Aug. 20.
Swift, Willard E., Jr., Worcester, Mass. Protection against bullet spatter. 2,406,047; Aug. 20.
Syrovy, Gerald H., Philadelphia, Pa., assignor to General Electric Company. Shock-proofing mechanism. 2,406,265; Aug. 20.
Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Slow-motion electrical picture reproduction. 2,406,266; Aug. 20.
Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Railway brake. 2,406,048; Aug. 20.
Talley, Benjamin F., Silver City, Calif. Spading fork. 2,406,175; Aug. 20.
Tambert, Elmer A., Sierra Madre, Calif. Accounts payable system. 2,406,267; Aug. 20.
Terhune, Cornelius F., Kansas City, Mo. Windmill. 2,406,268; Aug. 20.
Thelander, W. Vincent, Auburn, Ind. Automatic clutch. 2,406,049; Aug. 20.
Thornton, Ray F., Dearborn, Mich. Power unit. 2,406,269; Aug. 20.
Torell, Leland C., and W. E. White, Bethlehem, Pa., assignors to Bethlehem Steel Company. Vibration dampening splice. 2,406,270; Aug. 20.
Tronic, Max, Worcester, Mass. Ironing board. 2,406,050;
Turnbull, Stockton G., Jr.: *See*—
Calcott, William S., Holbrook, & Turnbull.
Twentieth Century-Fox Film Corporation, assignee: *See*—
Corcoran, James P.
Tyler, Barnwell S.: *See*—
Ryan, Commodore D., Dempsey, Straub, and Tyler.
Udylite Corporation, The, assignee: *See*—
High, Le Roy B., and Harmon.
United Aircrafts Products, Inc., assignee: *See*—
Cruzan, Harold, and Warrick.
United Shoe Machinery Corporation, assignee: *See*—
Alderman, Leon D.
Morrill, Alfred R.
United Specialties Company, assignee: *See*—
Beatty, John T., and Bennett.
Universal Development Company, assignee: *See*—
Nelson, Richard E.
Universal Oil Products Company, assignee: *See*—
Linn, Carl B.
Schmerling, Louis.
Van Horn, Irving H., East Cleveland, Ohio, assignor to General Electric Company. Base for electric lamps or similar devices. 2,406,271; Aug. 20.
Van Slyke, Leland M., North Hollywood, Calif. Adz attachment for hammers. 2,406,116; Aug. 20.
Van Vorhees, Harold E., assignor to Borg-Warner Corporation, Chicago, Ill. Roll screen assembly. 2,406,272; Aug. 20.
Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Bullet handling apparatus. 2,406,176; Aug. 20.
Visscher, Juan F.: *See*—
Ziegler, Marc, Visscher, and Cavallero.
Vogt, Henry, Machine Co., Inc., assignee: *See*—
Edmonds, Eugene A.
Vokes, Cecil G., and E. A. Stokes; said Stokes assignor to Vokes Limited, London, England. Dust remover and filter. 2,406,177; Aug. 20.
Vokes, Cecil G., and E. A. Stokes; said Stokes assignor to Vokes Limited, London, England. Filter. 2,406,308; Aug. 20.
Vokes Limited, assignee: *See*—
Vokes, Cecil G., and Stokes.
Vulcan Corporation, assignee: *See*—
Clausing, George.
Waite, Philip M., Corry, Pa. Throttle control. 2,406,273; Aug. 20.
Ward, Francis, Rushden, England. Heel for boots and shoes. 2,406,274; Aug. 20.
Walley, Herbert H., Jr., Providence, R. I. Relief valve. 2,406,178; Aug. 20.
Walsh, Bruce R., Wilkinsburg, and G. S. Peterson, Penn Township, Allegheny County, Pa., assignors, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Method and apparatus for measuring air entrainment. 2,406,179; Aug. 20.
Wampler, Ivan W., Cambridge City, Ind., and Q. P. Morgan, Arnoldsburg, W. Va. Trapper's stake. 2,406,180; Aug. 20.
Warrick, Edward C.: *See*—
Cruzan, Harold, and Warrick.
Watson, Edward F.: *See*—
Lang, Wilmarth Y., and Watson.
Weiss, Gerhart, Sunnyside, assignor of twenty-five per cent to P. Porzelt, New York, and twenty-five per cent to F. Lunzer, Kew Gardens, Long Island, N. Y. Apparatus for producing corrugated structures. 2,406,051; Aug. 20.
Wejnarth, Axel R., Stockholm, Sweden. Electrical resistance element. 2,406,275; Aug. 20.
Welty, Albert B., Jr., Mountainside, N. J., assignor to Standard Oil Development Company. Reforming. 2,406,117; Aug. 20.
Westinghouse Air Brake Company, The, assignee: *See*—
Crittenden, Philip L.
Hines, Claude M.
Stevens, Roy R.
White, George M., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 2,406,276; Aug. 20.
White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Crowell, Walter S.
White, William E.: *See*—
Torrell, Leland C., and White.
Whitehead, William A., Preston, England, assignor to The Goss Printing Press Company, Chicago, Ill. Counting mechanism. 2,406,118; Aug. 20.
Wiegand, Francis J., Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Flowmeter. 2,406,181; Aug. 20.
Williams, Alfred L. W., Cleveland Heights, and A. P. Dank, assignors to The Brush Development Company, Cleveland, Ohio. Microphone. 2,406,119; Aug. 20.
Willig, Celestin E., Buffalo, N. Y. Side arm heater. 2,406,052; Aug. 20.
Wilson, Arthur P.: *See*—
Pontius, George W., III, Wilson, and Kuzmitz.
Wirtel, Arthur F.: *See*—
De Groote, Melvin, Keiser, and Wirtel.
Wirth, Emil O., assignor to Bendix Aviation Corporation, South Bend, Ind. Venting means. 2,406,120; Aug. 20.
Worth, Thomas C., Market Harborough, England. Cleaner. 2,406,278; Aug. 20.
Worthington, Henry: *See*—
Baldwin, Alfred W., Cusa, and Worthington.
Wright Aeronautical Corporation, assignee: *See*—
Walsh, Bruce R., and Peterson.
Wiegand, Francis J.
Wright, Paul L., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,406,053; Aug. 20.
Young, Arthur J., Danbury, England, assignor to Radio Corporation of America. Heat transferring means suitable for thermionic discharge apparatus. 2,406,121; Aug. 20.
Young, Lloyd L., Patchogue, N. Y., assignor to Radio Corporation of America. Low-voltage high-current switch. 2,406,122; Aug. 20.
Young, Richard C.: *See*—
Collar, Gleneth F., and Young.
Younger, Dubose, et al., assignee: *See*—
Barber, Lonnie.
Youngstown Sheet and Tube Company, The, assignee: *See*—
Gettig, Martin S., and Engelbaugh.
Zalkind, Philip, New York, N. Y. Container, materials, and parts therefor. 2,406,123; Aug. 20.
Zeitz, Arthur H., assignor of one-half to C. S. Foreman, Kansas City, Mo. Bending apparatus. 2,406,182; Aug. 20.
Zicke, Anthony, San Bruno, Calif. Display character. 2,406,124; Aug. 20.
Ziegler, Marc, J. F. Visscher, and L. J. Cavallero, Buenos Aires, Argentina, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency stabilizing system. 2,406,125; Aug. 20.
Ziegler, Marc, and M. J. Kobilsky, Buenos Aires, Argentina, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency stabilization. 2,406,309; Aug. 20.
Zweifel, Otto, assignor to Aktiengesellschaft, Brown, Boveri & Cie, Baden, Switzerland. Blade arrangement for axial compressors. 2,406,126; Aug. 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Pipe coupling. E. W. Rembert. Re. 22,782; Aug. 20.
Toasting apparatus, Automatic bread. R. J. Anderson. Re. 22,781; Aug. 20.

LIST OF PLANT INVENTIONS

Rose plant. H. C. Swim. 709; Aug. 20.

LIST OF DESIGN INVENTIONS

Airplane. T. C. Bennett, M. Morton, and F. M. Gloeckler. 145,417; Aug. 20.
Airplane. W. C. Jamouneau. 145,446; Aug. 20.
Airplane. J. A. Kerr and J. A. Mattison. 145,449; Aug. 20.
Body or the like, Cab. R. L. Allen. 145,414; Aug. 20.
Bottle. A. Sussman. 145,470; Aug. 20.
Casing for a piano or similar article. J. Barofsky. 145,416; Aug. 20.
Chain for a bracelet or similar article, Link. J. Braunstein. 145,418–26; Aug. 20.
Chain for watch bracelet or the like, Expansible link. E. F. M. Speidel. 145,467; Aug. 20.
Chair and table, Combination. L. S. Harsany. 145,443; Aug. 20.
Coat. J. Freedman. 145,436; Aug. 20.
Compact. E. Edson. 145,430; Aug. 20.
Control unit, Flame failure. J. C. Hamilton. 145,442; Aug. 20.
Curler, Hair. H. Natkiel. 145,456; Aug. 20.
Flashlight. L. E. Stegman. 145,469; Aug. 20
Flashlight or like article, Pocket. P. Copeland. 145,427; Aug. 20.
Footstool. M. M. Armstrong. 145,415; Aug. 20.
Fountain, Portable soda. J. R. Lewis. 145,452; Aug. 20.
Frame or the like, Mirror. F. Diamond. 145,429; Aug. 20.
Head, Tripod. B. R. Sparks. 145,466; Aug. 20.
House for a ship, Deck. C. M. Leavitt. 145,451; Aug. 20.
Iron or similar article, Electric. L. H. Snyder. 145,465; Aug. 20.
Lawn trimmer, Power driven. L. B. Goodall. 145,438; Aug. 20.
Lighting fixture, Electric. A. E. Wiedenhoeft. 145,471; Aug. 20.
Mirror, Rear view automobile. B. Putterman. 145,459; Aug. 20.
Overboot or similar article. L. H. L'Hollier. 145,453; Aug. 20.
Overshoe, Rubber. E. Gottschalk. 145,439; Aug. 20.
Pen or the like, Fountain. T. D. Flanagan. 145,431; Aug. 20.
Pin or similar article. M. Slater. 145,460–4; Aug. 20.
Plaque. A. Paladini. 145,457; Aug. 20.
Server, Mobile. A. Pinelli. 145,458; Aug. 20.
Shoe or similar article. T. R. Ingram. 145,444; Aug. 20.
Slipper or similar article. T. R. Ingram. 145,445; Aug. 20.
Stroller. N. B. Spencer. 145,468; Aug. 20.
Suit. M. Frascino. 145,432; Aug. 20.
Suit. J. Freedman. 145,433–5; Aug. 20.
Suit, Lady's. J. Lipman. 145,454; Aug. 20.
Support, Child's bassinet. E. H. Kautzman. 145,448; Aug. 20.
Tablecloth or similar article. A. V. Corso. 145,428; Aug. 20.
Toy airplane. J. J. Miller. 145,455; Aug. 20.
Toy, Pistol. E. D. Geissler. 145,437; Aug. 20.
Truck, Hand. A. S. Johann. 145,447; Aug. 20.
Typewriter. G. H. Kress. 145,450; Aug. 20.
Vehicle or similar article, Folding house. N. E. Graven. 145,440–1; Aug. 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accumulator. N. A. Christensen. 2,406,197; Aug. 20.
Acids and esters thereof, Preparation of. D. J. Loder. 2,405,967; Aug. 20.
Actuating mechanism, Index. H. G. Musgrave and N. G. Olson. 2,406,098; Aug. 20.
Adhesive composition derived from hydrolized ethylene-vinyl acetate interpolymers. W. H. Sharkey, H. M. Cadot, and W. B. Clark. 2,405,983; Aug. 20.
Air entrainment, Method and apparatus for measuring. B. R. Walsh and G. S. Peterson. 2,406,179; Aug. 20.
Airship, Dirigible. N. H. Nelson. 2,406,302; Aug. 20.
Amphibian. J. M. Hait. 2,406,288–90; Aug. 20.
Antenna system, Directive. E. Bruce. 2,405,992; Aug. 20.
Apparatus for determining weldability. J. Heuschkel. 2,406,076; Aug. 20.
Apparatus for improving the effective use of eyesight and preventing strain on the eyes. C. L. Burdick. 2,406,190; Aug. 20.
Apparatus for producing metal. R. K. Hopkins. 2,406,147; Aug. 20.
Apparatus for road vehicles, Sanding. C. H. Mattoon. 2,405,970; Aug. 20.
Apparatus for the manufacture of convoluted rods. H. A. Perkins. 2,406,033; Aug. 20.
Applying and removing device, Jar cap. K. F. Seals. 2,406,167; Aug. 20.
Arrangement for axial compressors, Blade. O. Zweifel. 2,406,126; Aug. 20.
Arrangement for the distant viewing of radioscopic images. J. Jany. 2,406,148; Aug. 20.
Attachment for hammers, Adz. L. M. Van Slyke. 2,406,116; Aug. 20.
Automatic clutch. W. V. Thelander. 2,406,049; Aug. 20.
Bacterial processes. J. L. Stokes. 2,406,174; Aug. 20.
Bag, Infusion. L. B. Eaton. 2,406,137; Aug. 20.
Bank, Selector terminal. G. Deakin. 2,406,002; Aug. 20.
Base for electric lamps or similar devices. I. H. Van Horn. 2,406,271; Aug. 20.
Bearing. W. R. Freeman. 2,406,069; Aug. 20.
Bed lamp. P. W. Nettesheim. 2,406,029; Aug. 20.
Bending apparatus. A. H. Zeitz. 2,406,182; Aug. 20.
Blade and package, Protected. J. Muros. 2,406,242; Aug. 20.
Blade assembly, Contact. W. P. Herman. 2,406,144; Aug. 20.
Blanks for cans from long and wide metal stock, Making strip. R. W. Messenger. 2,406,155; Aug. 20.
Block: *See*—
Friction-tipped belt block.
Board: *See*—
Ironingboard.
Box or the like, Berry. W. A. Ringler. 2,406,254; Aug. 20.
Bracket: *See*—
Scaffold bracket.
Brake: *See*—
Railway brake. Variable leverage brake.
Brake mechanism. J. H. Coombes. 2,406,201; Aug. 20.
Brake mechanism. E. R. Fitch. 2,406,284; Aug. 20.
Brake mechanism. P. W. Gaenssle. 2,406,212; Aug. 20.
Building apparatus, Tire. E. Miller. 2,406,093; Aug. 20.
Bullet handling apparatus. R. W. Vergobbi. 2,406,176; Aug. 20.
Bullet splatter, Protection against. W. E. Swift, Jr. 2,406,047; Aug. 20.
Cabinet: *See*—
Health cabinet.
Caddy, Mechanical. R. E. Allen. 2,406,183; Aug. 20.
Camera, Recording. W. Levine. 2,406,152; Aug. 20.
Can and marking means. A. L. Kronquest. 2,406,151; Aug. 20.
Canoe or the like, Sectional. E. A. Link. 2,406,085; Aug. 20.
Carburetor. R. W. Sloane and E. M. Bimberg. 2,406,114; Aug. 20.
Carrying case. H. S. Hunt. 2,405,955; Aug. 20.
Cart, Push. G. F. Sirman. 2,406,169; Aug. 20.
Carton, Sift-proof. T. F. Cass, Jr. 2,406,061; Aug. 20.
Case: *See*—
Carrying case.
Case and table, Combined carrying. J. Milkoff. 2,406,237; Aug. 20.
Cell, Bubble. E. F. Flint. 2,406,211; Aug. 20.
Cellulose ester molding batch having a metallic appearance and the batch produced thereby, Manufacturing a. T. J. Thomas. 2,405,953; Aug. 20.
Cement, Dental. W. S. Crowell. 2,406,063; Aug. 20.
Ceramic article and material and coloring or shading same. R. W. Erdle. 2,406,208; Aug. 20.
Chair: *See*—
Folding chair.
Charge forming system. F. Stephan. 2,406,115; Aug. 20.
Checkstraps, Making. L. J. Carter. 2,406,194; Aug. 20.
Chemical process. H. G. Schneider and J. E. J. Kane. 2,406,041; Aug. 20.
Chlorides of menthane, Manufacture of the higher. O. W. Cass. 2,406,195; Aug. 20.
Circuit: *See*—
Crystal filter circuit.
Circuit maker and breaker. O. Myers. 2,406,028; Aug. 20.
Cleaner. T. C. Worth. 2,406,278; Aug. 20.
Cleaner for compressed air arranged for automatic draining. G. Garnier. 2,406,214; Aug. 20.
Cleaning machine, Floor. I. J. Owen. 2,406,247; Aug. 20.
Clip or fastener for stovepipes and the like. A. M. Jenkins. 2,406,224; Aug. 20.
Closure, Container. E. G. King. 2,406,227; Aug. 20.
Closure, Container. E. G. King. 2,406,298; Aug. 20.
Clutch: *See*—
Automatic clutch. Two-way clutch.
Friction clutch.
Coating apparatus. W. H. Barrett and B. K. Asdell. 2,406,057; Aug. 20.
Cock, Selector. O. M. Burkhardt. 2,405,940; Aug. 20.
Collector, Current. L. H. Stauffer. 2,406,262; Aug. 20.
Collimating system. E. H. Land. 2,405,960; Aug. 20.
Communication system. A. C. Schroeder. 2,406,165; Aug. 20.
Compressor, Air. P. L. Crittenden. 2,406,202; Aug. 20.
Compressor, Fluid. W. H. Leinweber. 2,406,229; Aug. 20.
Conduit bender. J. H. Abramson and E. C. Swanson. 2,405,931; Aug. 20.
Contact device, Sealed. C. E. Pollard, Jr. 2,406,036; Aug. 20.
Contact device, Sealed reed. J. B. Little. 2,406,021; Aug. 20.
Container: *See*—
Fuel container.
Container filling device, Automatic. T. A. St. Clair, C. F. Sievers, and A. R. Olson. 2,406,263; Aug. 20.
Container, materials, and parts therefor. P. Zalkind. 2,406,123; Aug. 20.
Continuous disk filter. J. T. Dickinson and A. R. Moorman. 2,406,065; Aug. 20.
Control apparatus. C. M. Hines. 2,406,220; Aug. 20.
Control apparatus. R. R. Stevens. 2,406,264; Aug. 20.
Control device, Fluid. W. T. Graves, Jr., and T. E. Curtis. 2,406,075; Aug. 20.
Control device for hoisting mechanisms. R. M. Nardone. 2,406,156; Aug. 20.
Control means, Burner. W. S. Landon. 2,406,228; Aug. 20.
Control operating mechanism for vehicles, Dual. R. B. Sprinkel. 2,406,261; Aug. 20.
Control system, Follow-up. S. Godet. 2,406,143; Aug. 20.
Control system, Gyrostabilized bomb. J. H. Hammond, Jr. 2,406,293; Aug. 20.
Control system, Induction motor. P. W. Robinson. 2,406,255; Aug. 20.
Controlling means, Ignition. F. B. Aubert. 2,406,185; Aug. 20.
Conveyor, Belt. E. C. Anderson. 2,406,279; Aug. 20.
Cooker, Electric. C. M. Sharpe. 2,405,984; Aug. 20.
Corrugated structures, Apparatus for producing. G. Weiss. 2,406,051; Aug. 20.
Co-oxidation reaction. A. T. Larson. 2,405,963; Aug. 20.
Counting mechanism. W. A. Whitehead. 2,406,118; Aug. 20.
Coupling: *See*—
Overload release coupling. Pipe coupling.
Crystal filter circuit. G. F. Collar and R. C. Young. 2,405,999; Aug. 20.
Cylinder construction. R. P. Pescara. 2,406,100; Aug. 20.
Dampening splice, Vibration. L. C. Torell and W. E. White. 2,406,270; Aug. 20.
Dearomatizing and modifying hydrocarbons with hydrogen fluoride and boron trifluoride. R. E. Burk. 2,405,995; Aug. 20.
Device and system for the braking of vehicles. R. L. Levy. 2,406,304; Aug. 20.
Device for electrical connectors, Locking. J. F. O'Brien. 2,406,030; Aug. 20.
Device for enciphering telegraph signals, Key tape. T. A. McCann. 2,406,024; Aug. 20.
Device for film feeding mechanisms, Antibuckling. J. P. Corcoran. 2,406,136; Aug. 20.
Device for use with internal-combustion prime movers, Liquid fuel supply. R. J. Ifield. 2,406,296; Aug. 20.

Devolatiliser, Coal. A. F. Howe. 2,406,077; Aug. 20.
Dihaloalkanes and related products, Preparation of. W. F. Gresham. 2,405,948; Aug. 20.
Display character. A. Zicke. 2,406,124; Aug. 20.
Domestic appliance. K. Clark. 2,406,198; Aug. 20.
Drive device, Mechanical. H. W. Goff. 2,406,012; Aug. 20.
Elastic composition suitable for electrical cable insulation, Manufacture of. H. J. Cameron. 2,406,191; Aug. 20.
Electric discharge device. G. M. White. 2,406,276; Aug. 20.
Electric discharge device, High-frequency. R. J. Bondley. 2,406,277; Aug. 20.
Electric motor. G. L. Carson. 2,406,193; Aug. 20.
Electrical system and apparatus. P. K. Ranney. 2,406,104; Aug. 20.
Electrodeposition of metals and bath composition therefor. K. M. Gaver. 2,406,072; Aug. 20.
Electromagnet. L. J. Goldberg. 2,406,216; Aug. 20.
Engine: *See*—
Steam engine.
Engine frame. E. S. Hall. 2,406,292; Aug. 20.
Epsilon-caprolactam, Purification of. E. L. Martin. 2,405,969; Aug. 20.
Escapement mechanism. M. S. Gettig and H. E. Engelbaugh. 2,405,947; Aug. 20.
Esters, Formic acid. E. P. Bartlett. 2,405,936; Aug. 20.
Ethers, Preparation of starch. P. L. Nichols, Jr., and R. M. Hamilton. 2,405,973; Aug. 20.
Ethylene mixed feeds, Alkylation of. C. S. Lynch and H. G. Codet. 2,405,968; Aug. 20.
Ethylene, Polymerizing. A. T. Larson and N. W. Krase. 2,405,962; Aug. 20.
Exhibitor, Data. G. Munro. 2,406,027; Aug. 20.
Expansion chiller, Direct. E. A. Edmonds. 2,405,944; Aug. 20.
Expansion joint. J. V. Marancik and R. F. Mildrum. 2,406,234; Aug. 20.
Extension plug. W. Billman. 2,406,128; Aug. 20.
Extractor: *See*—
Pneumodynamic extractor.
Eyeshield and welding hood, Auxiliary. R. E. Meyer. 2,406,092; Aug. 20.
Fabric take-up. O. Fregeolle. 2,406,285; Aug. 20.
Fastener. K. Eisele. 2,406,007; Aug. 20.
Feeding mechanism, Sheet. W. K. Eckhard. 2,406,006; Aug. 20.
Film manufacture. F. T. Peters. 2,405,977; Aug. 20.
Filter: *See*—
Continuous disk filter.
Filter. C. G. Vokes and E. A. Stokes. 2,406,308; Aug. 20.
Fishing device. J. L. Potter. 2,406,252; Aug. 20.
Fixture for holding and measuring work at selective angles. O. E. Sorensen. 2,406,043; Aug. 20.
Flowmeter. F. J. Wiegand. 2,406,181; Aug. 20.
Fluid pressure motor. A. L. Grise. 2,405,949; Aug. 20.
Flush valve. I. H. Russell and F. C. Binnall. 2,406,259; Aug. 20.
Folding chair. A. A. Maurer. 2,406,305; Aug. 20.
Fork, Spading. B. F. Talley. 2,406,175; Aug. 20.
Former, Sole and heel. W. H. Doherty. 2,406,005; Aug. 20.
Forming machine, Pipe. H. L. Moor. 2,406,025; Aug. 20.
Frame: *See*—
Engine frame.
Frequency-control device, Electronic. E. H. Lange. 2,406,082; Aug. 20.
Frequency stabilization. M. Ziegler and M. J. Kobilsky. 2,406,309; Aug. 20.
Friction clutch. H. Nutt. 2,406,244; Aug. 20.
Friction-tipped belt block. P. B. Reeves. 2,406,253; Aug. 20.
Fruit picker. L. Barber. 2,406,055; Aug. 20.
Fuel container. D. J. Sullivan. 2,405,986; Aug. 20.
Fused electrical plug. M. Medlin. 2,406,154; Aug. 20.
Garment, Foundation. C. R. Glines. 2,406,215; Aug. 20.
Gas equipment, Liquid petroleum. W. C. Buttner and S. L. Sundstrom. 2,406,998; Aug. 20.
Glue, Applying. H. M. Grimshaw. 2,406,287; Aug. 20.
Grinder attachment, Meat. E. W. and R. Rogers. 2,406,105; Aug. 20.
Grinding machine, Tool. J. A. Cameron. 2,406,134; Aug. 20.
Gun, Rotary barrel. J. A. E. Martineau. 2,406,089; Aug. 20.
Harvesting machine, Cotton. C. T. Boone, Sr. 2,406,058; Aug. 20.
Head for broaching machine, Pull. F. J. Lapointe. 2,405,961; Aug. 20.
Health cabinet. B. Howard. 2,406,222; Aug. 20.
Heat regulator. P. S. Martin. 2,406,088; Aug. 20.
Heat transferring means suitable for thermionic discharge apparatus. A. J. Young. 2,406,121; Aug. 20.
Heater: *See*—
Side arm heater.
Heating apparatus, Induction. H. A. Strickland, Jr. 2,405,985; Aug. 20.
Heel for boots and shoes. F. Ward. 2,406,274; Aug. 20.
Heel turning device, Automatic. G. Clausing. 2,405,941; Aug. 20.
High-frequency shielding. O. M. Arnold. 2,405,987; Aug. 20.
Hitch means for connecting trailed devices to tractive vehicles. W. J. Sands and A. Greer. 2,405,980; Aug. 20.
Hoe. H. J. Beneke. 2,406,280; Aug. 20
Holder: *See*—
Razor blade holder.
Hollow articles, Spinning. C. J. Burch. 2,406,059; Aug. 20.
Hydrocarbon conversion, Catalytic. W. A. Schulze. 2,406,112; Aug. 20.
Hydrocarbon fluid, Treating. P. E. Kuhl and R. M. Shepardson. 2,405,959; Aug. 20.
Hydrocarbon oils, Catalytic treatment of. R. M. Cole. 2,406,200; Aug. 20.
Hydrocarbons, Alkylation of isoparaffinic. C. B. Linn. 2,406,086; Aug. 20.
Hydrocarbons, Averaging. R. E. Burk. 2,405,996; Aug. 20.
Hydrocarbons, Manufacture of. L. Schmerling. 2,406,110; Aug. 20.
Hydronamic machine. W. Ferris and A. R. Grad. 2,406,138; Aug. 20.
Hydroxyacetylated drastically-oxidized ricinoleic acid compounds and making same. M. De Groote, B. Keiser, and A. F. Wirtel. 2,406,206; Aug. 20.
Ice creeper. M. L. Georgopoulos. 2,406,074; Aug. 20.
Indicating device. R. A. Heising. 2,406,016; Aug. 20.
Inductance device. B. E. Stevens. 2,406,045; Aug. 20.
Infusion package, Manufacturing. H. O. Irmscher. 2,406,018; Aug. 20.
Insecticide. J. W. Hansen and C. C. Cassil. 2,406,294; Aug. 20.
Instrument for measuring reflectance. W. E. Scott. 2,406,166; Aug. 20.
Insulator. M. D. Mathews. 2,406,095; Aug. 20.
Ironing board. M. Tronic. 2,406,050; Aug. 20.
Jack: *See*—
Shoe supporting jack.
Jig. W. B. Ellwood and H. E. Hill. 2,406,008; Aug. 20.
Joint: *See*—
Expansion joint.
Key tape machine, Telegraph ciphering. R. D. Parker. 2,406,031; Aug. 20.
Lamp: *See*—
Bed lamp.
Lens. H. D. Beach. 2,405,989; Aug. 20.
Lever assembly, Brake. H. S. Jandus. 2,405,956; Aug. 20.
Lighter, Cigar and cigarette. J. Galter. 2,406,071; Aug. 20.
Lighting apparatus. P. H. Irmischer. 2,406,223; Aug. 20.
Lighting unit, Fluorescent. J. E. Holmes. 2,406,145–6; Aug. 20.
Linking machine, Sausage. J. J. Prohaska. 2,406,163; Aug. 20.
Loader for revolvers. H. C. Lima. 2,406,231–2; Aug. 20.
Locating method, Contact. H. Dahl. 2,406,281; Aug. 20.
Lock device for bicycles and the like, Permanent safety. A. R. Romero. 2,406,257; Aug. 20.
Locking means, Airplane control surface. T. G. Linnert. 2,406,233; Aug. 20.
Loom. S. P. Parker. 2,405,975; Aug. 20.
Low-voltage high-current switch. L. L. Young. 2,406,122; Aug. 20.
Lug, Silo and tank. C. S. Anderson. 2,406,054; Aug. 20.
Lug, Washer. F. G. Krueger. 2,406,079; Aug. 20.
Lure and trap, Radio submarine. B. Sheffield. 2,406,111; Aug. 20.
Machine for cutting curved, self-conjugate indentations. A. Forster. 2,406,009; Aug. 20.
Machine for cutting food products. P. F. Quinn. 2,406,107; Aug. 20.
Measuring device, Cloth. J. A. Firsching. 2,406,140; Aug. 20.
Measuring system. A. J. Hornfeck. 2,406,221; Aug. 20.
Mechanism for mechanical concentrating devices, Gate. C. H. J. Patterson. 2,405,976; Aug. 20.
Mechanism for torpedoes, Starting. L. D. Alderman. 2,405,932; Aug. 20.
Metal article, Coated. M. J. Roedel. 2,406,039; Aug. 20.
Metals with aluminum, Coating ferrous. K. Oganowski, N. W. Parks, and K. G. Coburn. 2,406,245; Aug. 20.
Metering and distributing apparatus, Liquid. H. Morgenroth. 2,406,239–40; Aug. 20.
Metering apparatus, Anesthetizing. J. H. Blease. 2,406,129; Aug. 20.
Microphone. A. L. W. Williams and A. P. Dank. 2,406,119; Aug. 20.
Mill: *See*—
Rolling mill.
Modulation system, Pulse. E. Labin. 2,406,019; Aug. 20.
Monoazo compounds. J. B. Dickey and J. G. McNally. 2,406,004; Aug. 20.
Motor: *See*—
Electric motor. Fluid pressure motor.
Mounting. P. C. Roche. 2,406,256; Aug. 20.

Mounting for cleaner elements. J. T. Beatty and D. L. Bennett. 2,406,188; Aug. 20.
Mounting for switches and the like. R. Haynes. 2,406,295; Aug. 20.
Moving device, Earth. V. L. Schield. 2,405,981; Aug. 20.
Multiple injection pump. L. Beeh. 2,405,938; Aug. 20.
Naphtha, Treatment of cracked. J. A. Anderson, Jr. 2,405,935; Aug. 20.
Nitriles, Synthesis of. D. J. Loder. 2,405,966; Aug. 20.
Nut, Lock. R. Funk. 2,406,070; Aug. 20.
Oil conditioner, Automatic. H. Cruzan and E. C. Warrick. 2,406,203; Aug. 20.
Olefin hydrocarbons, Polymerization of. W. A. La Lande, Jr., and H. Heinemann. 2,406,081; Aug. 20.
Olefins, Polymerizing. W. E. Hanford. 2,405,950; Aug. 20.
Operating mechanism, Tap. S. E. Dansel. 2,406,204; Aug. 20.
Organo-silicon esters and materials treated therewith. A. J. Barry. 2,405,958; Aug. 20.
Overload release coupling. S. C. Gebert. 2,406,142; Aug. 20.
Oxygen, Method and apparatus for obtaining purified liquid. W. Dennis. 2,406,003; Aug. 20.
Paint, Anticorrosive. N. J. Read. 2,406,307; Aug. 20.
Paper package, Sealed moistureproof. J. W. Lively. 2,406,301; Aug. 20.
Papers, Coating. W. Barrett. 2,406,056; Aug. 20.
Payable system, Accounts. E. A. Tambert. 2,406,267; Aug. 20.
Pen, Fountain. J. J. Kelley. 2,405,958; Aug. 20.
Pencil, Mechanical. B. D. Smith. 2,406,171; Aug. 20.
Pentane, Averaging with. R. E. Burk. 2,405,997; Aug. 20.
Photocell for measuring long wave radiations. C. G. Fink and J. S. Mackay. 2,406,139; Aug. 20.
Picture reproduction, Slow-action electrical. G. C. Sziklai. 2,406,266; Aug. 20.
Pins, Assembling safety. H. Alfandre. 2,405,934; Aug. 20.
Pipe: *See*—
Porcelain pipe.
Piston. W. A. Roth. 2,406,258; Aug. 20.
Plate, Automobile license. F. J. Gantnier. 2,406,286; Aug. 20.
Platform, Shoe. C. W. Mathieson. 2,406,091; Aug. 20.
Platinum or allied metals, or their alloys, and articles made therefrom. C. J. Smithells. 2,406,172; Aug. 20.
Plug: *See*—
Extension plug.
Fused electrical plug.
Pneumodynamic extractor. P. A. Bayless. 2,406,187; Aug. 20.
Pocket for garments, Convertible. R. Lauria. 2,405,964; Aug. 20.
Polyamide emulsion. R. M. Leekley. 2,405,965; Aug. 20.
Polyethylene film-forming composition. W. L. Alderson, Jr. 2,405,933; Aug. 20.
Polyethylene, Halogenated. A. McAlevy. 2,405,971; Aug. 20.
Polymer, Polysulphide. L. L. Ryden. 2,406,260; Aug. 20.
Porcelain pipe. R. L. McCoy. 2,406,235; Aug. 20.
Power unit. V. C. Kennedy. 2,406,150; Aug. 20.
Power unit. R. F. Thornton. 2,406,269; Aug. 20.
Prescription blanks, Producing. A. C. McCrum. 2,405,972; Aug. 20.
Press: *See*—
Printing press.
Presser for sewing machines, Electric hem. M. R. Little. 2,406,022; Aug. 20.
Printing machine. C. D. Ryan, F. J. Dempsey, F. A. Straub, and B. S. Tyler. 2,406,040; Aug. 20.
Printing press. W. W. Davidson and F. J. Breman. 2,406,205; Aug. 20.
Propane and pentane, Averaging. R. E. Burk. 2,405,994; Aug. 20.
Provitamin D, Obtaining. W. S. Calcott, G. E. Holbrook, and S. G. Turnbull, Jr. 2,406,133; Aug. 20.
Pump: *See*—
Multiple injection pump.
Raft release, Life. J. D. Petouhoff. 2,406,250; Aug. 20.
Railway brake. C. E. Tack. 2,406,048; Aug. 20.
Razor. D. Pinkas. 2,406,035; Aug. 20.
Razor blade holder. O. C. Otteson. 2,406,160; Aug. 20.
Reactions with isopentane in the presence of a liquid catalyst. R. E. Burk. 2,405,933; Aug. 20.
Recording device, Deviation. A. H. Beal. 2,405,937; Aug. 20.
Reforming. A. B. Welty, Jr. 2,406,117; Aug. 20.
Refuse body. J. F. Heil and A. H. Samuelsen. 2,406,015; Aug. 20.
Regulating device for internal-combustion engines, Automatic mixture. R. de Filippis. 2,406,282; Aug. 20.
Regulator: *See*—
Heat regulator.
Release means for parachute harness, Instant. W. H. Fauss. 2,406,209; Aug. 20.
Release, Mechanical. L. P. Frieder and W. S. Finken. 2,406,010; Aug. 20.
Relief valve. H. H. Walley, Jr. 2,406,178; Aug. 20.
Remover and filter, Dust. C. G. Vokes and E. A. Stokes. 2,406,177; Aug. 20.
Repeater, Electronic regenerative. M. Morrison. 2,406,096; Aug. 20.
Reproducing instrument, Pressure. A. J. Rosenberger. 2,405,979; Aug. 20.
Resistance element, Electrical. A. R. Wejnarth. 2,406,275; Aug. 20.
Resistance, Gas flow. G. E. Fredericks. 2,406,141; Aug. 20.
Retainer, Tool. A. J. Calaman. 2,406,132; Aug. 20.
Rivet. R. E. Nelson. 2,406,157; Aug. 20.
Rolling mill. F. R. Hight, R. O. Greenshields, and F. J. Mueller. 2,406,219; Aug. 20.
Rosinates, Producing white sodium. A. A. Morton. 2,406,097; Aug. 20.
Rubber, Regeneration of waste. A. Johnston. 2,406,297; Aug. 20.
Salvage from fish viscera. I. A. Parfentjev. 2,406,249; Aug. 20.
Sampling apparatus. C. D. Cantrell, Jr. 2,406,192; Aug. 20.
Sampling machine, Random. G. V. Herrold. 2,405,951; Aug. 20.
Scaffold bracket. C. W. Hushower. 2,406,078; Aug. 20.
Scavenger, Crankcase. C. C. Randall. 2,406,103; Aug. 20.
Scraper. R. G. Le Tourneau. 2,406,300; Aug. 20.
Scraper on solder roll, Stationary. J. H. O'Neil. 2,406,159; Aug. 20.
Screen assembly, Roll. H. E. Van Voorhees. 2,406,272; Aug. 20.
Screw driver. J. B. Jeni. 2,406,149; Aug. 20.
Sealing machine, Ampoule, A. Pipping. 2,406,101; Aug. 20.
Secrecy system. H. H. Beverage and R. E. Mathes. 2,405,991; Aug. 20.
Selecting mechanism. J. A. Spencer and L. F. Reinhold. 2,406,044; Aug. 20.
Self-cooling wheel. R. L. Levy. 2,406,303; Aug. 20.
Separable members. E. Morehouse. 2,406,026; Aug. 20.
Separation apparatus, Liquid solids. E. A. Packard. 2,406,248; Aug. 20.
Servometer and control thereof. W. T. Stephens. 2,406,173; Aug. 20.
Severing apparatus, Billet. G. C. Ehemann, Jr. 2,405,945; Aug. 20.
Sharpener, Knife and scissor. J. M. Miller. 2,406,094; Aug. 20.
Sharpener, Lawn mower. R. P. Pedersen. 2,406,162; Aug. 20.
Sheet material, Manufacture of artificial fibrous. R. and J. Pickles. 2,405,978; Aug. 20.
Shell, Explosive. R. C. Chavez. 2,406,135; Aug. 20.
Shell, Knock-down globular. E. Raisz. 2,406,164; Aug. 20.
Shield, Dust. G. B. Gallasch. 2,406,213; Aug. 20.
Shield, Protecting. G. N. Mas. 2,406,090; Aug. 20
Ship or vessel. A. J. Levin. 2,406,084; Aug. 20.
Shock absorber. G. E. Dath. 2,406,064; Aug. 20.
Shock-proofing mechanism. G. H. Syrovy. 2,406,265; Aug. 20.
Shoe, Air-cooled brake. C. C. Eurit. 2,406,067; Aug. 20.
Shoe supporting jack. A. R. Morrill. 2,406,306; Aug. 20.
Side arm heater. C. E. Willig. 2,406,052; Aug. 20.
Sight. J. C. Garand. 2,406,011; Aug. 20.
Signal enciphering key tape producing device, Telegraph. B. S. Swezey. 2,406,046; Aug. 20.
Signal enciphering mechanism, Telegraph. R. D. Parker. 2,406,032; Aug. 20.
Signal enciphering system, Telegraph. W. Y. Lang and E. F. Watson. 2,406,020; Aug. 20.
Signal enciphering system, Teletypewriter. G. A. Locke. 2,406,023; Aug. 20.
Signaling system, Carrier wave. W. A. Phelps. 2,406,034; Aug. 20.
Signaling system, Electrical. G. Deakin. 2,406,001; Aug. 20.
Slip last. G. Clausing. 2,405,942; Ang. 20.
Spreader, Hair pin. E. Byron. 2,406,060; Aug. 20.
Sprocket drive, Tractor. J. E. Lill. 2,406,230; Aug. 20.
Stabilizing system, Frequency. M. Ziegler, J. F. Visscher, and L. J. Cavallero. 2,406,125; Aug. 20.
Stake, Trapper's. I. W. Wampler. 2,406,180; Aug. 20.
Steam engine. E. S. Hall. 2,406,291; Aug. 20.
Steel, Production of non-aging. J. D. Gat and S. C. Snyder. 2,405,946; Aug. 20.
Stoker. W. M. Schweickart and F. G. Julyan. 2,405,982; Aug. 20.
Structure for internal-combustion free piston engine, Casing. R. P. Ramsey. 2,406,037; Aug. 20.
Submarines, Spotting. J. T. Beechlyn. 2,405,990; Aug. 20.
Support for clutch bands. G. Reuter. 2,406,038; Aug. 20.
Surface-active compounds, Manufacture of. A. W. Baldwin, N. W. Cusa, and H. Worthington. 2,406,186; Aug. 20.
Switch: *See*—
Low-voltage high-current switch.
Switch system, Limit. J. A. Chilman. 2,406,196; Aug. 20.
System for gun turrets, Trigger. G. W. Pontius, III, A. P. Wilson, and F. V. Kuzmitz. 2,406,102; Aug. 20.
System for locating the source of an explosion wave. W. R. Harry. 2,406,014; Aug. 20.
Tape, Fabricating. J. Alfthan. 2,406,127; Aug. 20.

Teeth, Grinding. S. R. Silver. 2,406,113; Aug. 20.
Telegraph system, Carrier. R. B. Shanck. 2,406,042; Aug. 20.
Telephone system. P. L. Wright. 2,406,053; Aug. 20.
Terpene derivatives. A. L. Rummelsburg. 2,406,106; Aug. 20.
Tertiary alkyl ureas and formaldehyde and producing same, Reaction condensation products of. M. T. Harvey and S. Caplan. 2,406,218; Aug. 20.
Testing assembly. J. M. Laird. 2,406,080; Aug. 20.
Tetrafluoroethylene, Depolymerization of polymeric. E. E. Lewis. 2,406,153; Aug. 20.
Throttle control. P. M. Waite. 2,406,273; Aug. 20.
Tie, Railroad. B. Branham. 2,406,131; Aug. 20.
Tin plating. N. F. Blackburn. 2,406,189; Aug. 20.
Tire. J. H. Doering and R. H. McCarroll. 2,405,943; Aug. 20.
Tool with photoelectric positioning of the work table, Machine. M. Koulicovitch. 2,406,299; Aug. 20.
Topper for beets and the like. D. G. Grew. 2,406,013; Aug. 20.
Torch. Le R. B. High and J. B. Harmon. 2,405,952; Aug. 20.
Toy clock. F. Porcelli. 2,406,251; Aug 20.
Toy, Mechanical. I. W. Fishel. 2,406,283; Aug. 20.
Transmission. J. S. Alspaugh. 2,406,184; Aug. 20.
Transmission. D. W. Kelbel. 2,406,225; Aug. 20.
Transmission. R. Lapsley. 2,406,083; Aug. 20.
Transmitting mechanism, Force and motion. G. Briswold and C. H. Cannon, Jr. 2,406,073; Aug. 20.
Treating device, Blood. J. P. Desmet. 2,406,207; Aug. 20.
Trimmer, Cartridge case. G. T. Smiley. 2,406,170; Aug. 20.
Truck, Car. C. J. Clasen. 2,406,199; Aug. 20.
Truck, Hand. A. Newport. 2,406,158; Aug. 20.
Truck, Refrigerated. W. L. Morrison. 2,406,241; Aug. 20.
Two-way clutch. K. Miller. 2,406,238; Aug. 20.
Typewriter for justifying lines. C. W. Norton. 2,405,974; Aug. 20.
Urea-formaldehyde reaction products and producing same. M. T. Harvey and S. Caplan. 2,406,217; Aug. 20.
Vacuum apparatus. K. C. D. Hickman 2,406,017; Aug. 20.
Valve: *See*—
Flush valve.
Relief valve.
Valve. M. Mallory. 2,406,087; Aug. 20.
Valve. N. B. Newton and R. Fennema. 2,406,243; Aug. 20.
Valve. H. S. Ogden. 2,406,246; Aug. 20.
Valve assembly. A. J. Penick. 2,406,099; Aug. 20.
Variable leverage brake. B. H. Browall. 2,405,939; Aug. 20.
Variable-speed transmission. L. E. Jones. 2,405,957; Aug. 20.
Vehicle attachment, Motor. J. Paymer. 2,406,161; Aug. 20.
Ventilating apparatus. L. J. Shumaker. 2,406,168; Aug. 20.
Venting means. E. O. Wirth. 2,406,120; Aug. 20.
Vessel and handling same. A. M. McDougall. 2,406,236; Aug. 20.
Washing machine. A. L. Kimball. 2,406,226; Aug. 20.
Wax sweating, Controlling. S. W. Ferris. 2,406,210; Aug. 20.
Wheel: *See*—
Self-cooling wheel.
Wheel. C. Hollerith. 2,405,954; Aug. 20.
Wheel construction. F. C. Frank. 2,406,068; Aug. 20.
Wheels, Making dished disk. D. R. Corneil. 2,406,062; Aug. 20.
Wicket, Conveyer. G. J. Dawn. 2,406,000; Aug. 20.
Windmill. C. F. Terhune. 2,406,268; Aug. 20.
Winding apparatus, Coil. E. D. Boyce. 2,406,130; Aug.
Wringer, Pivotal frame. N. L. Etten. 2,406,066; Aug. 20.
Wringer, Rinse. A. Schellenberg. 2,406,108–9; Aug. 20.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 20, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 8: 2,406,092
43: 2,406,215
247: 2,405,964
4— 164: 2,406,222
7— 8.1: 2,406,116
9— 2: 2,406,085
33: 2,406,250
10— 129: 2,406,204
12— 87: 2,405,941
127: 2,406,306
136: 2,405,942
13— 10: 2,406,147
17— 34: 2,406,163
18— 2: 2,406,297
34: 2,406,005
47.5: 2,406,127
57: 2,405,977
20— 89: 2,405,983
24— 109: 2,406,026
204: 2,406,123
221: 2,406,007
25— 32: 2,406,025
29— 1.32: 2,406,170
148.2: 2,406,059
155.55: 2,406,281
159.01: 2,406,062
196.2: 2,406,245
30— 43: 2,406,035
335: 2,406,160
32— 8: 2,406,208
26: 2,406,113
33— 56: 2,406,011
174: 2,406,043
205.5: 2,405,937
212: 2,406,211
35— 25: 2,406,111
46: 2,406,164
36— 2: 2,406,090
7.7: 2,406,074
35: 2,406,274
44: 2,406,091
37— 126: 2,406,300
38— 114: 2,406,050
40— 86: 2,406,027
125: 2,406,286
140: 2,406,124
42— 89: 2,406,231
2,406,232
43— 49: 2,406,252
96: 2,406,180
46— 104: 2,406,283
175: 2,406,251
47— 61: Pl.Pt.709
49— 7: 2,406,101
14: 2,406,021
17: 2,406,008
51— 34: 2,406,162
101: 2,406,134
241: 2,406,105
55— 107: 2,406,013
56— 33: 2,406,058
340: 2,406,055
57— 142: 2,406,270
60— 54: 2,406,083
60— 97: 2,406,264
62— 1: 2,405,998
114: 2,405,944
117: 2,406,241
122: 2,406,003
66— 150: 2,406,285
167: 2,406,140
67— 7.1: 2,406,071
68— 17: 2,406,198
22: 2,406,108
2,406,109
263: 2,406,066
69— 21: 2,406,194
70— 227: 2,406,257
73— 53: 2,406,179
89: 2,406,076
198: 2,406,129
421: 2,405,951
74— 16: 2,406,269
84: 2,406,012
90: 2,406,098
236: 2,406,253
270: 2,406,225
271: 2,406,184
281: 2,405,957
471: 2,406,273
513: 2,406,161
537: 2,405,956
75— 22: 2,406,172
76— 87: 2,406,094
80— 16: 2,406,219
81— 3.30: 2,406,167
85— 40: 2,406,157
88— 1: 2,405,960
14: 2,406,166
16.2: 2,406,152
33: 2,406,213
41: 2,406,190
54: 2,405,989
89— 1: 2,406,089
27: 2,406,102
90— 5: 2,406,009
91— 49: 2,406,056
2,406,057
93— 1: 2,406,033
3: 2,406,018
93: 2,406,118
95— 5: 2,405,972
97— 50: 2,405,980
65: 2,406,280
98— 42: 2,406,168
99— 77.1: 2,406,137
358: 2,405,984
101— 6: 2,406,151
57: 2,406,040
232: 2,406,205
102— 3: 2,406,293
67: 2,406,135
103— 44: 2,406,296
161: 2,406,138
173: 2,405,938
105— 197: 2,406,199
106— 14: 2,406,307
35: 2,406,063
106— 171: 2,405,953
109— 78: 2,406,047
110— 45: 2,405,982
113— 62: 2,406,159
114— 20: 2,405,932
72: 2,406,236
77: 2,406,084
115— 1: 2,406,288
2,406,289
2,406,290
116— 26: 2,405,990
117— 15: 2,406,287
65: 2,405,978
132: 2,406,039
120— 18: 2,406,171
49: 2,405,958
121— 41: 2,406,173
2,406,181
50: 2,406,291
152: 2,405,949
.22— 245: 2,406,052
123— 46: 2,406,037
58: 2,406,292
78: 2,406,258
124: 2,406,282
171: 2,406,103
128— 214: 2,406,207
132— 1: 2,406,060
136— 89: 2,406,139
137— 21: 2,406,228
53: 2,406,178
140: 2,406,087
144: 2,406,284
153: 2,405,979
166: 2,406,192
138— 31: 2,406,197
40: 2,406,141
76: 2,406,235
139— 38: 2,405,975
140— 92.2: 2,406,130
145— 66: 2,406,149
146— 78: 2,406,107
148— 12: 2,405,946
151— 21: 2,406,070
152— 381: 2,405,954
153— 45: 2,405,931
51: 2,406,182
154— 10: 2,406,093
14: 2,405,943
30: 2,406,051
43.5: 2,405,986
155— 142: 2,406,305
158— 13.6: 2,405,952
117.1: 2,406,185
160— 281: 2,406,272
163— 8: 2,405,934
164— 17: 2,406,155
167— 33: 2,406,294
81: 2,406,133
170— 26: 2,406,268
171— 320: 2,406,262
172— 36: 2,406,150
179: 2,406,220
239: 2,406,143
172— 239: 2,406,196
274: 2,406,255
278: 2,406,193
173— 269: 2,406,079
330: 2,406,030
361: 2,406,144
174— 35: 2,405,987
52: 2,406,295
211: 2,406,095
175— 336: 2,406,216
2,406,265
356: 2,406,045
176— 32: 2,406,271
122: 2,406,146
177— 351: 2,406,016
2,406,221
352: 2,406,014
178— 6.8: 2,406,266
22: 2,405,991
2,406,020
2,406,023
2,406,024
2,406,031
2,406,032
2,406,046
34: 2,406,044
66: 2,406,042
70: 2,406,096
179— 4: 2,406,034
15: 2,406,165
18: 2,406,001
27: 2,406,053
98: 2,406,002
110: 2,406,119
171.5: 2,406,309
180— 9.1: 2,406,230
77: 2,406,261
183— 8: 2,406,278
15: 2,406,188
39: 2,406,214
79: 2,406,177
188— 53: 2,406,048
77: 2,406,038
152: 2,406,304
153: 2,406,201
2,406,212
180: 2,406,156
195: 2,405,939
264: 2,406,067
190— 11: 2,406,237
192— 48: 2,406,238
56: 2,406,142
99: 2,406,244
105: 2,406,049
195— 3: 2,406,249
96: 2,406,174
196— 9: 2,405,995
2,405,996
20: 2,406,210
24: 2,406,200
52: 2,405,959
2,406,112
78: 2,405,993
197— 84: 2,405,974
198— 23: 2,405,947
33: 2,406,176
134: 2,406,000
230: 2,406,279
200— 1: 2,406,028
51: 2,406,223
52: 2,406,136
53: 2,406,246
112: 2,406,036
115.5: 2,406,154
163: 2,406,122
201— 76: 2,406,275
202— 26: 2,406,077
204— 49: 2,406,072
54: 2,406,189
206— 46: 2,406,242
209— 496: 2,405,976
210— 55: 2,406,248
66: 2,406,187
71: 2,406,226
113: 2,406,308
200: 2,406,065
214— 67: 2,406,015
82: 2,406,158
138: 2,405,981
215— 40: 2,406,227
2,406,298
217— 95: 2,406,054
219— 13: 2,405,985
19: Re.22,781
2,406,022
222— 217: 2,406,239
2,406,240
224— 45: 2,405,955
226— 20.6: 2,406,263
229— 14: 2,406,061
2,406,301
34: 2,406,254
230— 101: 2,406,017
122: 2,406,126
172: 2,406,229
184: 2,406,202
236— 95: 2,406,088
238— 288: 2,406,131
240— 6: 2,406,145
78: 2,406,104
244— 30: 2,406,302
49: 2,406,073
83: 2,406,233
151: 2,406,209
248— 9: 2,406,256
230: 2,406,029
250— 6: 2,406,019
11: 2,405,992
20: 2,405,999
27.5: 2,406,121
2,406,277
36: 2,406,082
2,406,125
41.5: 2,406,299
77: 2,406,148
251— 27: 2,406,243
71: 2,406,099
97: 2,405,940
251— 155: 2,406,259
252— 42.7: 2,406,041
257— 2: 2,406,203
3: 2,406,080
260— 6: 2,405,965
23: 2,405,933
42: 2,406,191
69: 2,406,217
2,406,218
78: 2,406,260
94: 2,405,950
2,405,962
2,406,971
105: 2,406,097
205: 2,406,004
209: 2,405,973
239: 2,405,969
405: 2,406,206
462: 2,405,988
464: 2,405,963
2,405,966
484: 2,405,967
488: 2,405,936
561: 2,406,186
617: 2,406,106
653: 2,406,153
657: 2,406,195
663: 2,405,948
668: 2,405,935
2,406,117
683.15: 2,406,081
683.4: 2,405,968
2,405,994
2,405,997
2,406,096
2,406,110
261— 34: 2,406,114
37: 2,406,115
266— 23: 2,405,945
30: 2,406,075
267— 9: 2,406,064
271— 50: 2,406,006
277— 50: 2,406,120
279— 2: 2,406,128
19.1: 2,406,132
79: 2,405,961
280— 36: 2,406,183
58: 2,406,169
282— 22: 2,406,267
285— 90: 2,406,234
114: Re.22,782
185: 2,406,224
291— 32: 2,405,970
294— 49: 2,406,175
83: 2,406,010
301— 6: 2,406,303
63: 2,406,068
304— 32: 2,406,078
306— 11: 2,406,247
308— 184: 2,406,069
309— 2: 2,406,100
315— 40: 2,406,276

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,405,948:	260—663	2,406,003:	62—122	2,406,091:	36— 44	2,406,182:	153— 51	2,406,239:	222—217	2,406,259:	251—155
2,405,953:	106—171	2,406,008:	49— 17	2,406,104:	240— 78	2,406,204:	10—129	2,406,240:	222—217	2,406,276:	315— 40
2,405,965:	260— 6	2,406,021:	49— 14	2,406,110:	260—683.4	2,406,206:	260—405	2,406,249:	195— 3	2,406,280:	97— 65
2,405,980:	97— 50	2,406,050:	38—114	2,406,135:	102— 67	2,406,234:	285— 90	2,406,254:	229— 34	2,406,308:	210—113
2,405,994:	260—683.4										

Classification of Designs

D 3— 4: Des. 145,432
Des. 145,433
Des. 145,434
Des. 145,435
Des. 145,436
Des. 145,454
D 5— 5: Des. 145,448
D 7— 4: Des. 145,439
Des. 145,453
7: Des. 145,444
D 7— 7: Des. 145,445
D14— 3: Des. 145,414
Des. 145,440
Des. 145,441
Des. 145,447
Des. 145,452
Des. 145,458
6: Des. 145,459
14: Des. 145,468
D15— 8: Des. 145,415
D29—20: Des. 145,429
23: Des. 145,457
D33—11: Des. 145,443
D34—15: Des. 145,437
Des. 145,455
D40— 1: Des. 145,438
D45— 4: Des. 145,418
Des. 145,419
Des. 145,420
Des. 145,421
D45— 4: Des. 145,422
Des. 145,423
Des. 145,424
Des. 145,425
Des. 145,426
Des. 145,467
19: Des. 145,460
Des. 145,461
Des. 145,462
Des. 145,463
D45—19: Des. 145,464
D48—23: Des. 145,471
24: Des. 145,427
Des. 145,469
D49— 6: Des. 145,465
D56— 9: Des. 145,416
D57— 1: Des. 145,466
D58— 8: Des. 145,470
D64—11: Des. 145,450
D71— 1: Des. 145,417
D71— 1: Des. 145,446
Des. 145,449
Des. 145,451
D74—17: Des. 145,431
D81— 1: Des. 145,442
D86—10: Des. 145,430
Des. 145,456
D92—26: Des. 145,428

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol. 589—No. 4 TUESDAY, AUGUST 27, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of August 27, 1946	491
Disclaimers	491
Notice	491
Notices of Cancellation	491
Adverse Decisions in Interference	491
Applications Under Examination	492
Decisions of the U. S. Courts—	
In re Faustmann	493
Accord on German-Owned Patents	496
Register of Patents Available for Licensing or Sale	498
Bulletin of Decisions of Patent Office on Trade-Marks	501
Trade-Marks Published (113 Applications)	507
Trade-Mark Registrations Granted	521
Trade-Mark Registrations Renewed	533
Reissues	537
Patents Granted	538
Designs	638

August 27, 1946

Trade-Marks	223	No. 423,203 to No. 423,425, inclusive.
T. M. Renewals	100	
Reissues	2	No. 22,783 to No. 22,784, inclusive.
Patents	423	No. 2,406,310 to No. 2,406,732, inclusive.
Designs	28	No. 145,472 to No. 145,499, inclusive.
Total	776	

Disclaimers

2,255,950.—*Frederick C. Shelters*, Ludington, Mich. Drawer Construction. Patent dated Sept. 16, 1941. Disclaimer filed July 3, 1946, by the assignee, *Thompson Cabinet Company*.

Hereby enters this disclaimer to the following claims of said patent: Claim 1, except in so far as the language of claim 1 is incorporated into claim 3; claims 2, 4, 7, and 8.

2,371,843.—*Frank T. Powers*, Glen Cove, N. Y. X-Ray Cassette. Patent dated Mar. 20, 1945. Disclaimer filed July 23, 1946, by the inventor.

Hereby enters this disclaimer to claims 1, 2, 3, 5, 6, 7, and 8 in said specification.

Notice

U. S. Patent Office, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notices of Cancellation

U. S. Patent Office, *Richmond, Va., July 30, 1946.*

Anthony F. McDonnell, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Brockway Glass Company, Inc., of Brockway, Pa., to effect the cancellation of trade-mark registration of Anthony F. McDonnell, 1341 Jefferson Avenue, Scranton, Pa., No. 77,405, dated April 5, 1910 (renewed), and the Patent Office having been advised that the said McDonnell is deceased, notice is hereby given that unless the heirs of McDonnell, his assigns or any person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., August 1, 1946.*

Napoleon O. Basford, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Hygienic Products Company, 220 Seventh Street, Southeast, Canton, Ohio, to effect the cancellation of trade-mark registration of Napoleon O. Basford, 317 Maiden Lane, Akron, Ohio, No. 259,376, dated July 30, 1929, and the Patent Office having been advised that the said Basford is deceased, notice is hereby given that unless the heirs of Basford, his assigns, legal representatives, or other person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed.

Pat. 2,310,327, William J. Sweeney, Production of motor fuel, decided April 19, 1946, claims 1 and 3.

Pat. 2,320,866, Lawrence R. Hill, Flexible insulating materials, decided May 8, 1946, claims 1 and 3.

Pat. 2,352,359, Max Leona Anderson, Faucet spray nozzles, decided May 29, 1946, claims 1, 2, 3, 4, 5, and 6.

Classification of Designs

D 3— 4: Des. 145,432
Des. 145,433
Des. 145,434
Des. 145,435
Des. 145,436
Des. 145,454
D 5— 5: Des. 145,448
D 7— 4: Des. 145,439
Des. 145,453
7: Des. 145,444
D 7— 7: Des. 145,445
D14— 3: Des. 145,414
Des. 145,440
Des. 145,441
Des. 145,447
Des. 145,452
Des. 145,458
6: Des. 145,459
14: Des. 145,468
D15— 8: Des. 145,415
D29—20: Des. 145,429
23: Des. 145,457
D33—11: Des. 145,443
D34—15: Des. 145,437
Des. 145,455
D40— 1: Des. 145,438
D45— 4: Des. 145,418
Des. 145,419
Des. 145,420
Des. 145,421
D45— 4: Des. 145,422
Des. 145,423
Des. 145,424
Des. 145,425
Des. 145,426
Des. 145,467
19: Des. 145,460
Des. 145,461
Des. 145,462
Des. 145,463
D45—19: Des. 145,464
D48—23: Des. 145,471
24: Des. 145,427
Des. 145,469
D49— 6: Des. 145,465
D56— 9: Des. 145,416
D57— 1: Des. 145,466
D58— 8: Des. 145,470
D64—11: Des. 145,450
D71— 1: Des. 145,417
D71— 1: Des. 145,446
Des. 145,449
Des. 145,451
D74—17: Des. 145,431
D81— 1: Des. 145,442
D86—10: Des. 145,430
Des. 145,456
D92—26: Des. 145,428

U. S. GOVERNMENT PRINTING OFFICE: 1946

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol. 589—No. 4 TUESDAY, AUGUST 27, 1946 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.75; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

CONTENTS

	Page
Issue of August 27, 1946	491
Disclaimers	491
Notice	491
Notices of Cancellation	491
Adverse Decisions in Interference	491
Applications Under Examination	492
Decisions of the U. S. Courts—	
In re Faustmann	493
Accord on German-Owned Patents	496
Register of Patents Available for Licensing or Sale	498
Bulletin of Decisions of Patent Office on Trade-Marks	501
Trade-Marks Published (113 Applications)	507
Trade-Mark Registrations Granted	521
Trade-Mark Registrations Renewed	533
Reissues	537
Patents Granted	538
Designs	638

August 27, 1946

Trade-Marks	223	No.	423,203 to No.	423,425, inclusive.
T. M. Renewals	100			
Reissues	2	No.	22,783 to No.	22,784, inclusive.
Patents	423	No.	2,406,310 to No.	2,406,732, inclusive.
Designs	28	No.	145,472 to No.	145,499, inclusive.
Total	776			

Disclaimers

2,255,950.—*Frederick C. Shelters,* Ludington, Mich. Drawer Construction. Patent dated Sept. 16, 1941. Disclaimer filed July 3, 1946, by the assignee, *Thompson Cabinet Company.*

Hereby enters this disclaimer to the following claims of said patent: Claim 1, except in so far as the language of claim 1 is incorporated into claim 3; claims 2, 4, 7, and 8.

2,371,843.—*Frank T. Powers,* Glen Cove, N. Y. X-Ray Cassette. Patent dated Mar. 20, 1945. Disclaimer filed July 23, 1946, by the inventor.

Hereby enters this disclaimer to claims 1, 2, 3, 5, 6, 7, and 8 in said specification.

Notice

U. S. Patent Office, *Washington 25, D. C., July 3, 1946.*

Effective from the date of this issue all mail for the United States Patent Office must be directed to the Commissioner of Patents, Washington 25, D. C.

CASPER W. OOMS,
Commissioner.

Notices of Cancellation

U. S. Patent Office, *Richmond, Va., July 30, 1946.*

Anthony F. McDonnell, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Brockway Glass Company, Inc., of Brockway, Pa., to effect the cancellation of trade-mark registration of Anthony F. McDonnell, 1341 Jefferson Avenue, Scranton, Pa., No. 77,405, dated April 5, 1910 (renewed), and the Patent Office having been advised that the said McDonnell is deceased, notice is hereby given that unless the heirs of McDonnell, his assigns or any person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., August 1, 1946.*

Napoleon O. Basford, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of The Hygienic Products Company, 220 Seventh Street, Southeast, Canton, Ohio, to effect the cancellation of trade-mark registration of Napoleon O. Basford, 317 Maiden Lane, Akron, Ohio, No. 259,376, dated July 30, 1929, and the Patent Office having been advised that the said Basford is deceased, notice is hereby given that unless the heirs of Basford, his assigns, legal representatives, or other person claiming an interest in the registration, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective parties were not the first inventors with respect to the claims listed.

Pat. 2,310,327, William J. Sweeney, Production of motor fuel, decided April 19, 1946, claims 1 and 3.

Pat. 2,320,866, Lawrence R. Hill, Flexible insulating materials, decided May 8, 1946, claims 1 and 3.

Pat. 2,352,359, Max Leona Anderson, Faucet spray nozzles, decided May 29, 1946, claims 1, 2, 3, 4, 5, and 6.

Condition of Applications Under Examination at Close of Business August 9, 1946

(Total number of applications awaiting action, excluding Trade-Mark Division, 120,792; Trade-Mark Division, 9,792. Oldest new case, February 12, 1945; oldest amended, February 20, 1945.)

(The dates given are 1945 except where † indicates 1946.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. GOLDBERG, A. J., Food Apparatus; Closure Operators; Fences; Gates; Planters; Plows; Harrows and Diggers; Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewerage.	Apr. 26	June 6	2113
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	May 5	May 18	2632
3. SCHIMMEL, J., Metal Founding; Metallurgy; Metal Treatment; Compositions (part)	May 8	May 19	1825
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Package and Article Carriers; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Aug. 1	Aug. 11	2110
5. ROBINSON, C. W., Glass; Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Apr. 12	Apr. 9	3336
6. GENIESSE, E. W., Carbon Chemistry (part)	Aug. 31	Oct. 10	1692
7. JARBOE, C. G., Optics, Photography	Oct. 19	Sept. 19	2070
8. IMUS, A. E., Furniture; Kitchen and Table Articles; Racks and Cabinets	July 9	July 14	2811
9. BENSON, E. B., Pumps and Fans; Fluid and Fluid-Current Motors	Apr. 13	Apr. 19	1971
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Modulators.	June 30	June 25	1453
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Dec. 22	Dec. 29	618
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Clutches and Power Stop Control	May 19	June 13	2266
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	June 13	June 28	1884
14. HANLIN, GEORGE, Metal Working (Bending; Sheet-Metal; Wire; Misc. Processes); Wire Fabrics; Farriery	Sept. 14	Sept. 6	1298
15. HENKIN, B., Natural Resins, Rubber (part); Proteins, Carbohydrates and Derivatives; Heterocyclic Compounds (part); Plastics.	July 18	July 24	1260
16. LOVEWELL, N. N., Telegraphy; Telephony	Aug. 9	July 14	1177
17. HABECKER, LEON B., Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 17	Feb. 20	1118
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 28	June 29	1661
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Sept. 17	Sept. 11	1478
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part); Bank Protection; Safes.	June 6	June 9	1647
21. THOMPSON, T. J., Textiles	Oct. 31	Oct. 1	742
22. CARPENTER, B. H., Aeronautics; Firearms; Ordnance	Aug. 27	June 29	1731
23. LEWIS, J. B., Cash Registers; Calculators (part)	May 28	June 6	261
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 25	Dec. 7	1087
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	June 16	July 18	1464
26. YOUNG, R. R., Electricity—Generation and Motive Power	May 15	May 11	1824
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Cleaning and Liquid Contact with Solids; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	May 3	Apr. 25	1906
28. SOLYOM, H. L., Heating; Metallurgical Apparatus; Internal-Combustion Engines (part); Cylinders; Pistons	May 24	May 3	1322
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools	June 9	May 31	2015
30. BISHOFF, A., Automatic Temperature and Humidity Regulation; Illumination; Thermostats and Humidostats; Heating Systems; Ammunition and Explosive Devices.	June 4	July 3	2135
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 25	Jan. 24	918
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 9	Aug. 23	1755
33. KAUFFMAN, H. E., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements; Plastic Block and Earthenware Apparatus.	June 6	June 4	2529
34. SAPERSTEIN, S., Electricity—Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators	June 12	Aug. 11	1136
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles; Ammunition and Explosive Charge Making.	July 11	Aug. 8	1689
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 28	June 6	1431
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 13	May 3	1351
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part); Rubber (part); Ornamentation	July 9	July 3	1191
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 21	Apr. 23	2217
40. DRUMMOND, E. J., Receptacles (part); Packages	Aug. 10	Sept. 14	2215
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles: Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Apr. 24	Apr. 27	845
42. MARANS, H., Electric Signaling; Electricity, Galvanometers and Meters	Sept. 14	Sept. 21	958
43. STONE, I. G., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Hides, Skins and Leathers; Azo Compounds.	June 1	June 6	1274
44. HARVEY, L. P., Refrigeration; Preserving	Apr. 5	May 2	1136
45. LISANN, I., Shafting and Flexible Shaft Couplings; Wheels, Tires, Axles and Wheel Substitutes; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part); Spring, Weight and Horsepower Motors.	July 5	July 14	2266
46. MUSHAKE, W. I., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Coating Apparatus.	July 11	Aug. 9	1264
47. KANOF, WM. J., Brakes; Boring and Drilling; Motor Vehicles; Land Vehicles (part)	Sept. 20	Sept. 4	2385
48. BERNSTEIN, S., Electricity, General Applications; Electric Igniters	Mar. 29	Apr. 3	1844
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 3	Aug. 6	1464
50. LEVIN, SAMUEL, Synthetic Resins	Aug 23	Aug. 23	2255
51. FRIEDMAN, M. H., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae).	May 16	May 16	2161
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	May 3	June 15	2855
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Cutlery; Closures, Partitions and Panels, Flexible and Portable.	May 14	May 7	2897
54. STRACHAN, O. W., Electric Lamp and Discharge Devices, Systems, Structure, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	May 18	May 22	2020
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery; Laminated Fabrics (part)	July 21	July 26	1563
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making	May 29	June 30	1510
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 12	May 15	2554
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working; Making Metal Tools and Implements	Aug. 20	Nov. 16	1184
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds (part)	May 8	May 12	2044
60. GLASS, R. L., Electricity-Heating; Welding; Furnaces; Batteries and Their Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	May 14	July 14	1822
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Marine Propulsion, Boats, Buoys and Ships.	June 5	June 5	2285
62. FUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 23	Mar. 23	3182
63. WINKELSTEIN, A. H., Poisons; Fermentation; Foods and Beverages; Heterocyclic Compounds (part); Oils and Fats.	Apr. 28	May 21	1999
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Fuel	Dec. 29	Dec. 20	1129
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays (e. g., Amplifiers).	May 11	May 10	2302
Trade-Marks: RICHMOND, F. A.	Nov. 14	†Apr. 2	9792
Designs: KALUPY, H. H.	Dec. 3	†May 15	6253

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Faustmann

No. 5,180. Decided May 7, 1946

[155 F.(2d) 388; 69 USPQ 541]

1. Appeal—References Considered.

Where the Board of Appeals ruled that applicant's design did not constitute invention over the patents cited by the Examiner, and at the same time stated that one of those patents did not anticipate applicant's design, *Held* that the Board did not intend "to eliminate a consideration of the * * * patent for whatever it might be worth."

2. Designs—Application—Showing.

"Under well-settled practice of the Patent Office, if a design patent is sought upon the keyboard of a typewriter it is necessary to claim this improvement in connection with a typewriter as a whole, the machine being shown, with the exception of the keyboard, in dotted lines."

3. Same—Invention.

"To lay down any hard and fast rule as to when invention exists in a design patent application would be a difficult, if not impossible, task."

4. Same—Utility.

"The question of utility which characterizes a mechanical patent is not a matter for consideration in design patent applications. The statute dealing with mechanical patents provides that a patent may be granted to 'any person who has invented or discovered any new and useful art, machine, manufacture or composition of matter, etc.,' while the design patent statute authorizes the granting of a patent for a design to any person who has 'invented any new, original, and ornamental design for an article of manufacture, etc.' "

5. Same—Patentability.

"The authority for granting a design patent is based upon four propositions—the design must be new, original, ornamental, and must be the product of invention."

6. Same—Invention.

"The production of a design patent must involve the element of invention and it is well settled that no lesser degree of inventive skill is required in the production of designs than other kinds of patented articles."

7. Same—Same.

"While invention must exist in designs as well as other patented articles the determination of the existence of the invention must necessarily be approached from a different angle. Utility is left out of the one and ornamentation not included in the other. Just how much ornamentation over and above that of the prior art is to be regarded as essential cannot be stated with any degree of definiteness. An article may be produced by an artist which possesses such ornamental merit as to lend it patentable dignity even though he has done nothing more than to take old lines, old shapes and old forms and put them together so as to make a new article or design pleasing to the eye."

8. Same—Same—Combination of Old Elements.

"In mechanical patents a combination of old elements is not invention unless there is a new and unexpected coaction between the consolidated elements producing a new result not flowing from the individual characteristics of each of the elements. Now, in a design combination such as we have at bar, if coaction between the consolidated elements is to be regarded as necessary it must flow from a new, unexpected, ornamental and pleasing appearance brought about by the putting together of the old elements."

9. Same—Patentability—Invention.

"We can see nothing in what appellant has done that is beyond the ability of the ordinary skilled mechanic or designer of typewriters. We agree with the Patent Office that, in view of the prior art, the inventive faculty was not exercised in producing appellant's keyboard."

Appeal from the Patent Office. Affirmed.

Messrs. Baldwin & Wight (*Mr. Donald M. Wight* of counsel) for Faustmann.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

Bland, *J.:*

Appellant applied to the United States Patent Office for a patent for his claimed new, original and ornamental design for a typewriting machine. The Primary Examiner rejected the claim in said application and cited the following references: Bills, Des. 93,152, August 28, 1934; Lentz, Des. 134,305, November 10, 1942; Ostrey, 1,828,939, October 27, 1931; Fairweather (British) 17,892, November 15, 1909; and stated:

The essential features of applicant's design reside in the keyboard and space bar of a typewriter, as shown in full lines on the drawing. The key tops and the space bar are without surface ornamentation and therefore patentability must of necessity reside in the configuration of these elements. Applicant states that his "key tops are straight across the front and curved at the rear." In this connection attention is directed to the key tops of the Lentz patent which applicant admits have "rounded front edges or faces and straight rear edges or faces." It is held that it would not amount to invention to make these key tops slightly thinner and turn them around on the keyboard, especially in view of the thickness of the key tops as shown by the Fairweather patent.

As to the configuration of the space bar, it is held that it does not show invention over the configuration of the space bar as shown by the Ostrey patent which has beveled corners. Also, attention is directed to the configuration of the space bar shown in the broken lines in the Bills patent. It is believed that anyone skilled in the art could produce a keyboard for a typewriter having key tops and a space bar of the configurations as shown without being entitled to a patent monopoly thereon. In this connection attention is directed to the decisions of *Knapp* v. *Will & Baumer Co.*, 273 F. R. 380; *In re Eppinger*, 25 C. C. P. A. 843; 94 F.(2d) 401; 1938 C. D. 257; and *In re Hall*, 1934 C. D. 283; 69 F.(2d) 660.

It is thought that the rejection on the art should stand.

Upon appeal to the Board of Appeals it had the following to say:

We consider applicant's design to be so different in appearance from that of Lentz as not to be anticipated thereby.

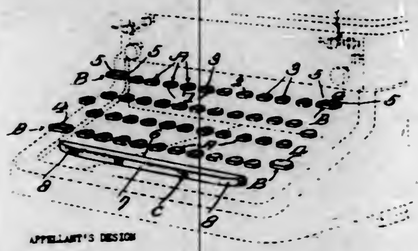
The question as we see it is whether applicant's keyboard is so different in appearance from a keyboard having the key tops of the British patent as to constitute a patentable difference in design. The principal difference is that the key tops of the British patent are relatively straight across the back edge and curved at the front and applicant's key tops are relatively straight across the front edges and curved at the back. We do not think such turning about of the key tops creates any substantial difference in the ornamental appearance of the keyboard. The two wider key tops at each end of applicant's keyboard do not materially affect the appearance of the design as a whole. The space bar is the same in appearance as that of Bills, and also does not materially affect the design as a whole.

We agree with the Examiner that applicant's design does not constitute invention over the disclosures of the references cited.

The decision of the Examiner is affirmed.

From this decision of the Board affirming the rejection of the Examiner appellant has here appealed.

Since the decisions below emphasize the question of appearance, as do most design patent decisions, it is thought proper to reproduce here appellant's design and the designs disclosed in the references with the exception of the Ostrey patent.



APPELLANT'S DESIGN



LENTZ

FAIRWEATHER



Fig. 1



BILLS

[1] Appellant contends that the decision of the Board, in effect, reversed that of the Examiner as to the applicability of the reference, Lentz, and therefore urges that it be given no consideration here. The Solicitor for the Patent Office did not discuss this question. It is not very clear just what effect should be given to the Board's decision in this respect because it will be noticed that the Examiner, in discussing the Lentz reference, considered it in connection with the Fairweather patent. It is true the Board stated that the Lentz patent did not anticipate appellant's design and made no further reference to the Lentz patent except to say that applicant's design does not constitute invention over the disclosures of the references cited. We are of the opinion that the Board did not intend to hold that the Examiner regarded the Lentz patent as completely anticipatory of appellant's design, nor do we think it intended to eliminate a consideration of the Lentz patent for whatever it might be worth. The gist of the decision of the Board rests upon the proposition that what appellant has done did not so materially affect the appearance of the design as a whole when considered in connection with the prior art and did not constitute invention so as to warrant the issuing of a patent to appellant.

[2] Under well-settled practice of the Patent Office, if a design patent is sought upon the keyboard of a typewriter it is necessary to claim this improvement in connection with a typewriter as a whole, the machine being shown, with the exception of the keyboard, in dotted lines.

Appellant, in his application, states that the dominant feature of this design resides in the portion of the machine shown in solid lines on the drawing.

It will be observed that appellant's design shows the key tops with straight front edges and straight and parallel side edges connected to the front edges by rounded corners, and widely curved convex rear edges, and that the keys at the corners of the keyboard are wider than the other keys and have straight rear portions extending between rounded rear corners. The elongated space bar has a straight rear edge and a straight front edge central portion and smoothly curved front edge end portions.

Appellant's space bar is almost identical with that disclosed on the Bills design patent, and the Lentz patent shows the keys with the straight edges in the rear and the rounded edges in front. Ostrey shows a space bar comparable to appellant's except that it has its ends tapered along the rear longitudinal edge. The latter is a mechanical patent and relates to the keyboard alone.

The British patent to Fairweather shows key tops with rounded front while the back edge of the key tops is concave.

Appellant has argued at considerable length here that his design is new and novel and that the tribunals of the Patent Office have not found to the contrary; nor, he contends, did they deny that it was ornamental. He states that he did not follow the teaching of any of the references but conceived a design which the ordinary skilled worker in the art would not have been able to produce by merely drawing upon the teachings of the reference. He calls attention to the fact that the back line of the Fairweather key is not a straight line as stated by the Board. In effect, appellant urges that the Patent Office tribunals erred in the consolidation of certain features of the prior art to justify its holding that appellant's design was not inventive over the cited prior art.

The Solicitor for the Patent Office has pointed out that in *In re Eppinger*, 25 C. C. P. A. (Patents) 843, 94 F.(2d) 401, 36 USPQ 325, 492 O. G. 250, a design patent case, it was held that it was proper for the Patent Office tribunals to combine references for the purpose of showing lack of invention.

[3] It would be easy to conceive of an article of manufacture being made in such form as to combine various features and shapes of the prior art and yet being of sufficient ornamental improvement over the prior art as to warrant its being the basis for a design patent. To lay down any hard and fast rule as to when invention exists in a design patent application would be a difficult, if not impossible, task.

[4] It must be remembered that the question of utility which characterizes a mechanical patent is not a matter for consideration in design patent applications. The statute dealing with mechanical patents provides that a patent may be granted to "any person who has invented or discovered any new and useful art, machine, manufacture or composition of matter, etc.," while the design patent statute authorizes the granting of a patent for a design to any person who has "invented any new, original, and ornamental design for an article of manufacture, etc."

[5] Thus it is seen that the authority for granting a design patent is based upon four propositions—the design must be new, original, ornamental, and must be the product of invention.

The design patent statute further provides that the patent is granted upon the "payment of the fees required by law and other due proceedings had, the same as in cases of inventions or discoveries covered by section forty-eight hundred and eighty-six," the section relating to mechanical and other patents.

Rule 81 of the Rules of Practice in the United States Patent Office provides:

> The proceedings in applications for patents for designs are substantially the same as in applications for other patents. * * *

The Patent Office and the courts have in some particulars found it was difficult to comply with the mandate of the statute and apply the same principles in considering the questions that would arise in connection with applications for design patents as are applied in the case of inventions or discoveries covered by section forty-eight hundred and eighty-six.

The greatest difficulty encountered has been in determining the question of the existence of invention. Other problems have presented difficulties in other respects—for instance, with reference to the question of reduction to practice, briefly discussed in a very carefully considered case, *Dieterich* v. *Leaf*, 24 C. C. P. A. (Patents) 1138, 89 F.(2d) 226, 33 USPQ 237, 484 O. G. 973. For a discussion of the history of design patent legislation see *In re Schnell*, 18 C. C. P. A. (Patents) 812, 46 F.(2d) 203, 8 USPQ 19, 405 O. G. 3.

[6] It has been a uniform holding of this court, following the settled law announced by other courts, that the production of a design patent must involve the element of invention and it is well settled that no lesser degree of inventive skill is required in the production of designs than other kinds of patented articles (cases cited and discussed infra). This is said notwithstanding the fact that the design patent law was enacted for the purpose of encouraging and promoting ornamentation while utility is the dominant feature of other patents. Both productions require novelty.

[7] It therefore is clear that while invention must exist in designs as well as other patented articles the determination of the existence of the invention must necessarily be approached from a different angle. Utility is left out of the one and ornamentation not included in the other. Just how much ornamentation over and above that of the prior art is to be regarded as essential cannot be stated with any degree of definiteness. An article may be produced by an artist which possesses such ornamental merit as to lend it patentable dignity even though he has done nothing more than to take old lines, old shapes and old forms and put them together so as to make a new article or design pleasing to the eye.

[8] In mechanical patents a combination of old elements is not invention unless there is a new and unexpected coaction between the consolidated elements producing a new result not flowing from the individual characteristics of each of the elements. Now, in a design combination such as we have at bar, if coaction between the consolidated elements is to be regarded as necessary it must flow from a new, unexpected, ornamental and pleasing appearance brought about by the putting together of the old elements. Applying that principle in the case at bar, we, like the tribunals below, while cognizant of appellant's new consolidation, involving, for the most part, what seems to be minor features relating to typewriter keyboards, do not think that he has produced any new and ornamental design of a keyboard, or a typewriter, which rises to the level of invention.

One of the early and important cases on this subject is *Gorham Company* v. *White*, 81 U. S. 511, involving infringement of a design patent for the handles of flat tableware. While the Court was not unanimous and the main question was whether or not the design patent had been infringed, certain basic principles were expressed which seem pertinent here. Justice Strong, speaking for the majority, said that Congress intended to encourage "the decorative arts" and that:

> They [the acts of Congress] contemplate not so much utility as appearance, and that, not an abstract impression, or picture, but an aspect given to those objects mentioned in the acts. * * * And the thing invented or produced, for which a patent is given, is that which gives a peculiar or distinctive appearance to the manufacture, or article to which it may be applied, or to which it gives form. The law manifestly contemplates that giving certain new and original appearances to a manufactured article may enhance its salable value, may enlarge the demand for it, and may be a meritorious service to the public. It therefore proposes to secure for a limited time to the ingenious producer of those appearances the advantages flowing from them. Manifestly the mode in which those appearances are produced has very little, if anything, to do with giving increased salableness to the article. It is the appearance itself which attracts attention and calls out favor or dislike. It is the appearance itself, therefore, no matter by what agency caused, that constitutes mainly, if not entirely, the contribution to the public which the law deems worthy of recompense. The appearance may be the result of peculiarity of configuration, or of ornament alone, or of both conjointly. but, in whatever way produced, it is the new thing, or product, which the patent law regards. To speak of the invention as a combination or process, or to treat it as such, is to overlook its peculiarities. As the acts of Congress embrace only designs applied, or to be applied, they

must refer to finished products of invention rather than to the process of finishing them, or to the agencies by which they are developed. A patent for a product is a distinct thing from a patent for the elements entering into it, or for the ingredients of which it is composed, or for the combination that causes it.

The Gorham case was subsequently discussed in an opinion by Chief Justic Fuller in the famous saddle case, *Smith* v. *Whitman Saddle Company*, 148 U. S. 674, 63 O. G. 912. The statute at the time that case was decided read, "Any person who, by his own industry, genius, efforts and expense, has invented and produced any new and original design, etc." It will be noticed that the statute then read "invented and produced," whereas the statute at bar does not contain the word "produced." But since the word "invented" and the word "produced" were connected by the word "and" and not the word "or" the existence of invention was required then as now.

The opinion quotes "Mr. Justice Brown" in *Northrup* v. *Adams*, 1877 C. D. 322, 12 O. G. 430, as follows:

"To entitle a party to the benefit of the act, in either case [i. e., for a design or for a mechanical patent], there must be originality, and the exercise of the inventive faculty. In the one, there must be novelty and utility; in the other, originality and beauty. Mere mechanical skill is insufficient. There must be something akin to genius—an effort of the brain as well as the hand. The adaptation of old devices or forms to new purposes, however convenient, useful or beautiful they may be in their new role, is not invention."

The opinion then proceeds to state:

Many illustrations are referred to, as, for instance, the use of a model of the Centennial Building for paper weights and ink stands; the thrusting of a gas-pipe through the leg and arm of the statue of a shepherd boy, for the purpose of a drop light; the painting upon a familiar vase of a copy of Stuart's portrait of Washington—none of which were patentable because the elements of the combination were old. The shape produced must be the result of industry, effort, genius or expense, and new and original as applied to articles of manufacture. *Foster* v. *Crossin*, 44 Fed. Rep. 62. The exercise of the inventive or originative faculty is required, and a person cannot be permitted to select an existing form and simply put it to a new use any more than he can be permitted to take a patent for the mere double use of a machine. If, however, the selection and adaptation of an existing form is more than the exercise of the imitative faculty and the result is in effect a new creation, the design may be patentable.

In *In re Hall*, 21 C. C. P. A. (Patents) 937, 69 F.(2d) 660, 21 USPQ 19, 445 O. G. 3, we stated that:

It is not enough that a design be new, original and ornamental. It must be also the result of the inventive faculty. *In re Walter*, 17 C. C. P. A. (Patents) 982, 39 F.(2d) 724.

The Circuit Court of Appeals, Second Circuit, in *Knapp* v. *Will & Baumer Co.*, 273 Fed. 380, had before it the question of the validity of a design patent for an improvement in candles. The design was for a candle the column of which was "substantially square in cross-section, mounted upon a substantially cylindrical longitudinally fluted pedestal and surmounted by a bell-shaped cap." It was held that what the appellant, Knapp, had done, in view of the prior art, did not amount to invention. The opinion states:

It is true that invention may reside in a new combination of old elements. Every new combination of old elements, however, is not patentable. But as this court said in *Steffens* v. *Steiner*, 232 Fed. 862, 147 C. C. A. 56:

"The question in the case at bar is not whether a design patent can be sustained, although each separate element in the design may be old, but it is whether what has been done in assembling the old elements in the new designs rose in these particular cases to the level of invention."

And in *Strauss Gas Iron Co.* v. *William M. Crane Co.*, 235 Fed. 126, 148 C. C. A. 620, this court again said:

"The test for invention is to be considered the same for designs as for mechanical patents, i. e., was the new combination within the range of the ordinary routine designer?"

The opinion continues, in language which we think is quite pertinent to the issue at bar:

We are quite at a loss to find in the patent in suit anything "akin to genius" in what the patentee did. We find nothing beyond the ability of the ordinary routine candle maker. What was done did not rise to the level of invention.

Chief Justice Fuller in *Smith* v. *Whitman Saddle Company*, supra, could have appropriately quoted further from the *Northrup* v. *Adams* case, supra, where attention was directed to a change relating to the standard of invention in Patent Office consideration of design patent cases. We quote:

It is true patents have apparently been issued for designs frivolous in themselves, or new adaptations of old designs; but, as remarked in an excellent opinion by Commissioner Leggett, in the case of Parkinson, Simons on Design Patents, p. 101, "the practice of the Office in granting design patents has been not only liberal but lax." In the later decisions of the Office a stricter construction has been given to the law, and one more consonant to the familiar principles applied to mechanical patents.

[9] In the instant case, applying the principles of the Knapp case, supra, we can see nothing in what appellant has done that is beyond the ability of the ordinary skilled mechanic or designer of typewriters. We agree with the Patent Office that, in view of the prior art, the inventive faculty was not exercised in producing appellant's keyboard.

The decision appealed from is affirmed.

Affirmed.

Accord on German-Owned Patents

The Conference on German-Owned Patents, which was convened on the invitation of the Governments of the French Republic, the United Kingdom and the United States of America, held meetings in London from the 15th to the 27th of July, 1946. Twelve nations sent delegations to the Conference; Australia, Belgium, Canada, Czechoslovakia, Denmark, France, Luxembourg, the Netherlands, Norway, the Union of South Africa, the United Kingdom, and the United States. The United States delegate was Casper W. Ooms, United States Commissioner of Patents, and his six advisers on the delegation were Bennett Boskey, James Simsarian, and Robert P. Terrill of the Department of State, Francis C. Brown and Howland H. Sargeant of the Office of the Alien Property Custodian, and John C. Green of the Department of Commerce.

The purpose of the Conference was to discuss the disposition of patents which have come into the possession or control of the various governments as a result of wartime sequestration or vesting of German-owned property. An Accord was drafted, which has already been signed by France, the Netherlands, the United Kingdom, and the United States. The Accord is open to any member of the United Nations and to any neutral government. It will come into force as soon as it has been signed or accepted by three additional governments, and the delegations from Australia, Canada, Czechoslovakia, and the Union of South Africa informed the Conference that they will recommend that their governments sign.

The full text of the Accord is as follows:

ACCORD

The governments on whose behalf the present Accord is signed:

Desiring to make arrangements with regard to former German-owned patents in their possession or control:

Have agreed as follows:

Article 1

Subject to the provisions of the following articles, each government, party to this Accord, undertakes that all former wholly German-owned patents, issued by it and in its possession or control under the general law and regulations relating to German-owned property, which have not ceased or been dedicated to the public, shall be dedicated to the public or placed in the public domain or continuously offered for licensing without royalty to the nationals of all governments, parties to this Accord.

Article 2

In cases where a government, party to this Accord, makes available by the grant of licenses or otherwise to its own nationals rights under patents in which there was formerly a German interest (other than the patents specified in Article 1), such rights shall be made available to the nationals of all governments, parties to this Accord, on the same terms as to the nationals of that government.

Article 3

Subject to the provisions of Article 4, all licenses granted in accordance with Article 1 and, in cases where the government is not prevented by the terms of the patent, license or other right which it acquires, all licenses granted in accordance with Article 2 shall include the right to practice and exercise the inventions claimed in the patents, and to make, use and sell the products of the inventions regardless of where such products are manufactured.

Article 4

The provisions of Articles 1 and 2 shall be subject to the right of each government to take appropriate measures to protect and preserve proprietary, license or other rights or interests in such patents which have been before the 1st August, 1946, lawfully granted to or acquired by any non-German. An exclusive license granted before the 1st August, 1946, may be protected by declining to grant any new license during the period of such exclusive license, and a non-exclusive license may be protected by imposing on new licensees the same terms as those imposed on the existing licensee.

Article 5

For the purposes of this Accord, each government may treat as non-German-owned those patents, or interests in patents, belonging to persons in special classes (such as Germans residing outside Germany, German refugees, etc.) whose property that government has exempted or may in the future exempt from its general law and regulations relating to German-owned property.

Article 6

In order to carry out the purposes of this Accord and to provide for the interchange of information through a central office, the Government of the French Republic will provide facilities for receiving and disseminating reports from governments, parties to this Accord, and for notifying these governments of matters of common interest under this Accord.

Article 7

Each government, party to this Accord, shall furnish as soon as possible to the central office referred to in Article 6, for transmission to the other governments, parties to this Accord, a list of all former wholly or partly German-owned patents which are not available to the nationals of these governments by way of dedication or royalty-free licenses, together with a schedule of the licenses and of non-German interests existing under or in those patents. In addition, the governments, which can conveniently do so, shall furnish a list of all such patents still in force which are licensable on a royalty-free basis and of all such patents as have ceased or been dedicated to the public.

Article 8

The present Accord shall remain open for signature in London on behalf of any government represented at the Conference in London until the 31st December, 1946. The Government of the United Kingdom shall notify to all other governments represented at the Conference the names of the governments on whose behalf the Accord has been signed.

Article 9

The government of any other member of the United Nations, or of any country which remained neutral during the Second World War, may become a party to this Accord by notifying the Government of the United Kingdom of its acceptance thereof before the 1st January, 1947. The Government of the United Kingdom shall inform all governments represented at the Conference in London on German-owned patents, or which have accepted this Accord under this article, of all acceptances so notified.

Article 10

Any government, party to this Accord, may extend the Accord to any of its colonies, overseas territories, or to any territories under its protection or jurisdiction or which it administers under mandate, by a notification addressed to the Government of the United Kingdom.

The Government of the United Kingdom shall inform all other governments, party to this Accord, of any notification which it receives under this article.

Article 11

This Accord shall come into force as soon as it has been signed or accepted by the Governments of the French Republic, the United Kingdom, the United States of America, and of four other countries.

IN WITNESS WHEREOF the undersigned duly authorised thereto have signed the present Accord.

Done in London this 27th day of July, 1946, in English and French, both texts being equally authentic, in a single copy which shall remain deposited in the archives of the Government of the United Kingdom. The Government of the United Kingdom shall transmit certified copies of this Accord to all Governments represented at the Conference in London on German-owned patents and to all Governments entitled to become a party to this Accord under the provisions of Article 9.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,400,274. SPARE TIRE CARRIER FOR TRUCKS OR THE LIKE. Patented May 14, 1946. Truck tires are carried horizontally by a pendently supported rack between side bars of vehicle frame, the rack being positioned forwardly or rearwardly of the rear axle. A block and tackle arrangement allows the tire to be raised or lowered by one man. (Owner) Otto F. Ullman, Ellsworth, Kans. Group 38—11—31. Reg. No. 3,362.

Pat. 2,399,518. GOLF BAG CARRIER. Patented Apr. 30, 1946. Carrier has tubular standard, the upper end of which has an adjustable handle and the lower end an arrangement to hold wheels. Bag is secured to standard with straps. The standard is jointed so that it is easily folded for storage in locker or luggage compartment of automobile. (Owner) Alfred A. Strain, 393 Jayne Ave., Oakland 10, Calif. Group 39—49. Reg. No. 3,363.

Pat. 1,733,448. LOG-METERING APPARATUS. Patented Oct. 29, 1929. Apparatus is employed to quickly determine the cubic contents of logs used in the manufacture of pulp. Generally stated, the logs are conveyed on an endless traveling chain; on passage through a portion of the apparatus, a counter is automatically set in operation, the computation being sufficiently accurate from a practical standpoint. (Owner) Harold B. Collins, Wynnewood, Pa. Group 35—54. Reg. No. 3,364.

Pat. 1,752,784. ENVELOPE-FILLING MACHINE. Patented Apr. 1, 1930. Pay envelopes are automatically filled with coins and bills by the machine which is composed of two main units, one of which has a number of containers for bills and the other for coins. Control is effected by movement of perforated envelopes through the machine, the perforations registering with electric contacts so that pneumatic bill selectors and coin tripping plungers are actuated. Bills and coins are conveyed to a central point where they are placed in envelopes. (Owner) Harold B. Collins, Wynnewood, Pa. Group 35—71—79. Reg. No. 3,365.

Pat. 1,971,337. COASTER PAD. Patented Aug. 28, 1934. Coaster has a top layer of blotting paper held to a cardboard base by rubber cement or asphaltum. The moisture of beverage filled glasses or pitchers is thus absorbed without marring the supporting surfaces of tables, etc., and the glass does not adhere to the coaster when lifted. (Owner) Harold B. Collins, Wynnewood, Pa. Group 26—99. Reg. No. 3,366.

Pat. 2,400,311. COMBINATION HAND SAW AND TRY SQUARE. Patented May 14, 1946. Attachment for handle of hand saw forms a try square. Device consists of a right angular channel member, one arm of which is slotted to straddle blade, the other arm fitting over upper portion of handle. In use, back of saw is used as a straight edge while attachment is held against side of board so that a guide line may be drawn across board. (Owner) Joseph A. Mayer, Main and Magnolia Sts., Petaluma, Calif. Group 33—54. Reg. No. 3,367.

Pat. 2,274,589. UNIVERSAL NOSE GRIP FOR EYEGLASSES. Patented Feb. 24, 1942. A one piece metal nose grip for eyeglasses which automatically adjusts itself to contour of wearer's nose. Comprises a flat metal plate with depressed circular central portion and upstanding arms to grip ball member formed on eyeglass frame. The usual plastic or imitation pearl nose pad is attached to the grip. (Owner) Earl M. Conneely, 819 South Pine St., Horseheads, N. Y. Group 39—14. Reg. No. 3,368.

Pat. 2,392,242. RETAINING DEVICE. Patented Jan. 1, 1946. This retaining washer is made of wire and results in a saving of material. Cotter pins are replaced by circumferentially grooved bolt or pin with which the washer is to be used. Washer has a U-shaped portion which fits the groove and an extension which fits over the end of the bolt and holds the device in place. May be made on wire forming machine or from strips punched from sheet metal, the strips being afterwards bent to form the washer. (Owner) Rudolph A. Goepfrich, 1109 North Cleveland Ave., South Bend 16, Ind. Group 33—12. Reg. No. 3,369.

Pat. 2,239,382. CURTAIN DRYING RACK. Patented Apr. 22, 1941. A knockdown curtain stretcher comprising twin standards each with a pair of inverted V-shaped legs. Wet curtains are suspended over a series of rollers which rotate in either direction. Curtains are tightly held in position by a weighted bar placed in hem. Side pins are eliminated. (Owner) Anita T. Decker, 17 Harrison St., Johnson City, N. Y. Group 25—99. Reg. No. 3,370.

Pat. 2,397,059. BOTTLE HOLDER. Patented Mar. 19, 1946. Bottle holder for nursing infants consists of a base supporting a loosely hinged cradle. Hinge is surrounded by a soft rubber collar to prevent catching fingers. Bottle is placed in holder and tipped forward manually. Cradle has an automatic balance and when bottle becomes empty it tips away from baby. May be made of rubber or some soft material. (Owner) Mary E. Swank, 331 West End Ave., New York 23, N. Y. Group 30—51. Reg. No. 3,371.

Pat. 2,071,272. GLARE SHIELD. Patented Feb. 16, 1937. An attachment for a windshield to shade the eyes of the driver from glare of approaching headlights, etc. An adjustable metal bracket and an L-shaped arm are mounted on frame of windshield to support an adjustable shade roller which moves in a horizontal arc. Shade extends between arm and bracket in front of windshield. (Owners) Francis B. O'Shea and Sanford J. Getman. Address correspondence to Francis B. O'Shea, 58 Remington Ave., Ilion, N. Y. Groups 33—59; 38—31. Reg. No. 3,372.

Pat. 2,267,993. PAPER BOTTLE AND CONTAINER. Patented Dec. 30, 1941. Group 26—64. Reg. No. 3,373.

Pat. 2,356,470. METHOD FOR ATTACHING METAL RINGS TO PAPER BOTTLES. Patented Aug. 22, 1944. Group 26—64. Reg. No. 3,374.

The two patents listed above refer to a paper bottle formed from a paper tube plaited at one end to form a neck and mouth. Plaits are clinched by a U-shaped metal ring and the bottom of container is closed by a paper disk having a flange clinched to body end by a U-shaped metal ring. Outer flanges are deeper than inner flanges, the inner flanges having a rounded shoulder forming seats for sealing disk and bottom. (Owners) Harold H. Pelzer and William Pelzer. Address correspondence to Harld H. Pelzer, 17 John St., New York 7, N. Y.

Pat. 2,321,313. PAPER BOTTLE AND CONTAINER. Patented June 8, 1943. Group 26—64. Reg. No. 3,375.

Pat. 2,321,314. PAPER BOTTLE AND CONTAINER. Patented June 8, 1943. Group 26—64. Reg. No. 3,376.

The two patents listed above refer to a square bodied paper container for milk, etc., in which standard filling and capping equipment may be used. May be made with either three-ply or four-ply bottom. Heavy paper is divided into four panels, a flap on one outer panel overlapping other outer panel and fastened by an adhesive. Scorings between panels at top project upwardly so that when bottle is formed, upper folded edges are in alignment with top edges of panels and form a seat for neck ring. (Owner) Harold H. Pelzer, 17 John St., New York 7, N. Y.

Pat. 2,323,078. PAPER BOTTLE. Patented June 29, 1943. Paper container has round body. One end has a series of parallel scores (in pairs) between a series of ogee curved scores (also in pairs) forming plaits which are clinched together by a U-shaped metal ring. Plaits between neck ring and shoulder spring outward and form angular sections separated by the single-ply sections of neck and prevent bending. (Owners) Harold H. Pelzer and William Pelzer. Address correspondence to Harold H. Pelzer, 17 John St., New York 7, N. Y. Group 26—64. Reg. No. 3,377.

Pat. 2,399,497. PLIER STRUCTURE. Patented Apr. 30, 1946. Pliers are constructed so that instead of the jaws pivoting arcuately (as in ordinary pliers) they slide toward and away from each other in a straight line. The handles are pivotally connected in the usual manner, but in addition one handle and a detachable jaw are angularly connected together by a protruding pin on the side of the jaw engaging an elongated cam slot in handle. The other handle (having an integral jaw) has transverse guideway slots into which lateral extensions on the detachable jaw member are adapted to slide. When handles are opened or closed the cam slot and pin cooperate to cause sliding movement of the jaws, the extensions simultaneously sliding into or out of the guideway slots. (Owner) John H. Melchers, 3309 Girard Ave. S., Minneapolis, Minn. Group 33—52. Reg. No. 3,378.

Pat. 2,399,119. ATTACHABLE KEY. Patented Apr. 23, 1946. Key, which may be employed as a substitute for an ordinary cotter pin, is adapted for quick and easy attachment or removal without bending or distortion to hold it securely in place. Key is formed from a single piece of wire bent to form a straight leg and a curved leg, the latter having an angular bend near its free end, the apex of which bears against the straight leg. The wire is also bent to form a coil spring in the top of the bend between the legs. (Owner) Joe S. Howell, Jennings, Fla. Groups 33—41—42—49. Reg. No. 3,379.

Pat. 2,365,759. LATHE AND SHAPER TOOL BIT GRINDING GAUGE. Patented Dec. 26, 1944. Reg. No. 3,380.

Pat. 2,397,738. GAUGE FOR GRINDING TOOL BITS. Patented Apr. 2, 1946. Reg. No. 3,381.

These two patents relate to a gauge which is used when grinding bits for machine tools, such as lathes, planers, shapers, etc. Will hold bits of various sizes without the need for set screws and wrenches. All faces of a bit may be quickly ground without removal from the gauge. It may be used with precision by inexperienced workmen. In Patent 2,397,738 the gauge is provided with rotatable, interchangeable, tapered bases and tapered washers for the purpose of changing the side and end angles to meet any given requirements for various types of work. The bases may be rotated and held at various index positions. (Owner) Louis H. Howe, 605 Southeast 17th Ave., Portland 14, Oreg. Group 35—43.

Pat. 2,399,475. ART OF RAISING SUNKEN SHIPS. Patented Apr. 30, 1946. A skeleton framework or cradle large enough to partially encircle a ship from the deck to the opposite side of the bilge keel, is made from a number of aligned, spaced C-shaped members connected together. The cradle is lowered over a sunken ship and rocked to substantially upright position simultaneously engaging the deck and hull and turning the ship with it until it rests in the cradle. Cables are then connected to opposite sides of the cradle to raise it to the surface, which is accomplished in any well-known manner, or it may be partially raised and towed to port. (Owner) Norman E. Dorland. Address correspondence to Caesar & Rivise, 1321 Arch St., Philadelphia 7, Pa. Group 33—73. Reg. No. 3,382.

Des. 144,588. DESIGN FOR A TOY SHOVEL. Patented Apr. 30, 1946. Winch-operated type of toy shovel mounted on a wheeled truck. (Owner) David G. Samuels, Jr., 193 Church St., Coldwater, Mich. Group 39—41. Reg. No. 3,383.

Pat. 1,949,551. VEHICLE LIGHT. Patented Mar. 6, 1934. An ornamental parking, cowl or stop light for motor vehicles. An opaque base with light chamber housing an electric lamp is attached to vehicle body. Body of any ornamental design is made of frosted, transparent or translucent material and is illuminated from base to give a soft, even light visible from all directions. (Owner) Somervell B. Somervell, 205 East 42d St. New York 17, N. Y. Groups 34—81; 39—81; 32—39. Reg. No. 3,384.

Pat. 2,260,728. ELEVATOR CAR SHOE HYDRAULIC STABILIZER. Patented Oct. 28, 1941. Automatic stabilizer for an elevator which minimizes strain on cables and sheaves and provides uniform wear on the shoes and rails. Fluid pressure actuated car shoes are mounted on cab in sliding engagement with guide rails in communication with fluid pressure chamber actuated by adjustable weights or springs. Each car shoe is maintained under equalized predetermined fluid pressure contact against the rails during all movements of cab. (Owner) Somervell B. Somervell, 205 East 42d St., New York 17, N. Y. Group 35—62. Reg. No. 3,385.

Pat. 2,354,004. CONDIMENT HOLDER. Patented July 18, 1944. Has several compartments for storing various seasonings. A rotatably mounted cap with perforations and index indicator permits dispensing from one compartment only at a time. A removable rubber bottom is subdivided into a number of compartments and tightly fits compartments in container, forming a sealed closure preventing moisture from affecting contents. (Owner) Jacob Fess. Address correspondence to David M. Heller, 134 South La Salle St., Chicago, Ill. Groups 32—29; 39—81; 33—31. Reg. No. 3,386.

Pat. 2,399,218. AIRCRAFT LANDING GEAR. Patented Apr. 30, 1946. Landing wheels are retractable into and extendible out of wing structure. Motive means are provided for rotating wheels to a suitable speed for effecting a safe landing without subjecting the tire treads to undue wear as wheels strike the surface. (Owner) Robert A. Felburg, 82 Baldwin Ave., Newark, N. J. Group 37—21. Reg. No. 3,387.

Pat. 2,399,111. TRAP. Patented Apr. 23, 1946. For separating liquid from steam. Moisture-laden steam enters body of trap through an inlet and strikes a baffle so that moisture is precipitated. Air trapped within a floating bell causes a lever to lift a pair of valves so that the liquid flows outwardly through pipe at bottom of casing. When level of liquid drops to predetermined point, bell resumes its normal position and the valves are closed. By simple adjustment the trap may be used as a means for controlling the level of a liquid in a container. (Owner) Charles E. George, Sr., 109 Lynn St. S., Charleston 3, W. Va. Group 33—66. Reg. No. 3,388.

Pat. 1,897,880. ELECTRICAL TUBE. Patented Feb. 14, 1933. Vacuum tube functions as a detector, amplifier or modulator in various types of radio circuits. Provides higher efficiencies, both as to energy transfer and to blocking of high frequency discharge. Arrangement of tube is such that the grid constitutes an induction coil between the plate and filament of tube. Provides maximum efficiency and reduces the discharge of high frequency oscillations. (Owner) Howard F. Barkley, 6681 Yucca St., Hollywood 28, Calif. Group 36—61. Reg. No. 3,389.

Pat. 2,261,046. ELECTRICAL APPLIANCE CORD HOLDER. Patented Oct. 28, 1941. Holder in the form of a split band is adapted to encircle the forearm to hold the cord of an electric iron or other appliance out of the way of the operator. The cord is frictionally held by a notched block attached to the band. (Owner) Bryan Anderson, Columbus, Mont. Groups 33—94; 36—21; 39—81. Reg. No. 3,390.

Pat. 2,302,523. BENCH VISE. Patented Nov. 17, 1942. Has a ball and socket arrangement which allows it to be moved and fixed in any position. The bottom of the vise has a spherical member which fits a recess formed in the bench clamp so that the vise may be pivoted. The vise may also be held in various elevated positions by means of rods fixed to spherical member. An angle indicating plate fixed on top of the clamp so that various angular positions may be determined. (Co-owner) Anthony Borsella, 2977 Webster Ave., Bronx 58, New York, N. Y. Groups 33—92; 35—43. Reg. No. 3,391.

United States Government Owned Patent

The following patent, owned by the United States Government, as represented by the Secretary of the Interior, is available for licensing, upon a non-exclusive, royalty-free basis. Information relative to this patent should be obtained from: Solicitor, Department of the Interior, Washington 25, D. C.

Pat. 2,403,481. METHODS OF CONCENTRATING IRON ORE. Patented July 9, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) The preparation for smelting of iron ores containing siliceous gangue materials may consist of conditioning a watery pulp of the ground ore with hydrated lime to establish a pulp with an alkalinity of pH 11. Soda ash is then added to precipitate the dissolved hydrated lime so that not more than 100 parts per million of the hydrated lime remains in solution. Lignin sulphonate is then added and the pulp subjected to agitators and aeration in the presence of an arion active collecting agent (resin acid, mixtures of resin and fatty acids, etc. The gangue is floated and the concentrated iron-ore settles and is recovered. Other examples given in patent. Group 32—95. Reg. No. 3,392.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING JULY, 1946

TINNERMAN PRODUCTS, INC., *v.* SPEED PRODUCTS COMPANY, Opposition No. 22,844.

In a decision rendered July 1, 1946 (169 Ms. Dec. 79, 70 USPQ 39), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Tinnerman Products, Inc., of Cleveland, Ohio, to the application of Speed Products Company, of Long Island City, N. Y., for registration of a trade-mark for machine staples comprising the word "Speed," printed upon a design described by the applicant as a bird in flight and by the Examiner as an arrow with double wings; the mark having been used since July 10, 1936. Opposer pleaded three registered trade-marks, one of which is the notation "Speed Clip," used since December 15, 1932 and registered July 13, 1937, under the act of February 20, 1905, for locking clips, the word "clip" being disclaimed.

After agreeing with the Examiner that applicant's mark is clearly dominated by the word "Speed," it was held that of opposer's three registered trade-marks only the one "Speed Clip" need be considered and in view of the disclaimer this mark, like applicant's, is necessarily dominated by the word "Speed."

It was held that although the goods of the parties are by no means identical, nevertheless both are small fastening devices made of metal and to some extent are used for closely related purposes so that broadly speaking there can be no doubt but that they possess the same descriptive properties; and since the marks under which they are sold are predominantly alike, the Examiner of Interferences correctly concluded that confusion in trade is reasonably likely.

After noting that applicant claims ownership through alleged predecessors in business of several composite marks in which the word "Speed" occurs, it was held that it was unnecessary to pass upon opposer's contention that applicant has failed to establish title to the registrations in question because "Speed Fastener," registered September 11, 1928, for stapling machines and tools for fastening together sheets of paper and similar sheet material and for stapling wire screening and fencing and for other stapling purposes, is not the mark now sought to be registered, nor are the goods the same; and to hold that its ownership of this registration gives it a monopoly of the word "Speed" would be inconsistent with applicant's emphatically argued position that such word is common property.

EX PARTE FRUIT DISPATCH COMPANY, Serial No. 450,897.

In a decision rendered July 3, 1946 (169 Ms. Dec. 83, 70 USPQ 41), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Fruit Dispatch Company, of New York, N. Y., on the ground that it does not function as a trade-mark, a mark under the provisions of the act of February 20, 1905, comprising a picture of a hand of bananas with the outline of a broad ribbon across it, appropriated to bananas, the representation of the goods being disclaimed.

In response to applicant's argument that in view of the disclaimer of the goods, the ribbon design is the dominating feature of the mark, it was held that that is beside the point, since in the specimen labels filed with the application purporting to show the trade-mark as actually used upon the goods, the scroll serves merely as a frame for the word "Unifruit," which word is manifestly the most prominent part of the mark, and its deletion results in mutilation; in other words, applicant does not appear to have used the mark as now presented; the scroll is no more registrable without the word than it would be without the picture, for use is a prerequisite to registration.

NION CORORATION *v.* FORREST INCORPORATED, Opposition No. 23,397.

In a decision rendered July 3, 1946 (169 Ms. Dec. 84, 70 USPQ 41), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Nion Corporation, of Los Angeles, Calif., to the application of Forrest Incorporated, of New York, N. Y., for registration of the notation "Hem-Ron," as a trade-mark for a preparation for use in the therapy of nutritional and secondary anemias, use of the mark being claimed since February 25, 1944, on the ground that applicant's mark is confusingly similar to opposer's trade-mark "Hemonutron," registered July 22, 1941 for an iron and B complex combination.

After noting that the Examiner had held that the goods of the parties are substantially identical and that applicant makes no contention to the contrary in response to applicant's argument that the marks are not confusable chiefly for the reason that the combining form "hemo-" in opposer's mark is descriptive of the goods, it was held that even though descriptive, that portion of the mark may not be

disregarded so that the Examiner of Interferences correctly held that the marks are confusingly similar.

JULIANA UNDERWEAR COMPANY *v.* JULIUS DRITTEL, Opposition No. 23,983 and Opposition No. 24,076.

In a single decision rendered July 3, 1946 (169 Ms. Dec. 82, 70 USPQ 40), *First Assistant Commissioner Frazer* affirmed in each of two cases, since the question to be determined is the same in both cases, the action of the Examiner of Interferences dismissing upon motion for failure to state a claim upon which relief could be granted the oppositions of Juliana Underwear Company, of New York, N. Y., to the applications of Julius Drittel, of Elizabeth, N. J., for registration of trade-marks.

After setting forth the only ground of opposition as identically stated in the two notices, it was held that these allegations reveal nothing more than the existence and in part the subject matter of a court proceeding between the parties and are devoid of affirmative statements of fact which would tend to establish that the applicant is not entitled to registration on its application.

In response to opposer's argument that proceedings should be suspended in accordance with the prayer for judgment in each notice of opposition until the court has rendered a decision on the controversy relating thereto, it was held that here no issue is presented; the termination of the suit would add nothing to the allegations of opposer's pleadings, and those allegations would not support a judgment; in order to invoke the rule for which it contends, opposer should first have alleged sufficient facts to enable the Examiner in charge of interferences to determine the question of the right of registration to such trade-mark, and of the sufficiency of objections to registration, as he is required to do by section 7 of the Trade-Mark Act; having failed to do so, opposer must abide the consequences.

GABY, INC., *v.* IRENE BLAKE COSMETICS, INC., Opposition No. 23,549.

In a decision rendered July 9, 1946 (169 Ms. Dec. 86, 70 USPQ 160), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of Gaby, Inc., of Philadelphia, Pa., to the application of Irene Blake Cosmetics, Inc., of New York, N. Y., for registration of the word "Gabardine," as a trade-mark for after shave powder, after shave lotion, and hair dressing. Opposer took no testimony, but relied on its ownership of three registrations of the trade-mark "Gaby," covering a long line of cosmetics and toilet preparations.

It was held that in part at least, though specifically different, the goods of opposer's registrations are clearly of the same descriptive properties as applicant's goods; and since opposer is prior in use, the only question for determination is whether the marks of the parties are so similar as to be likely to cause confusion.

It was held that applicant's complete mark must be compared with opposer's complete mark; and when so compared, the two differ sufficiently in appearance, sound and significance to be used concurrently in trade without any reasonable likelihood of confusion.

EX PARTE ELKAY PRODUCTS COMPANY, Serial No. 477,688.

In a decision rendered July 9, 1946 (169 Ms. Dec. 87, 70 USPQ 159), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks rejecting the application of Elkay Products Company, of New York, N. Y., for registration of the word "Wizo" as a trade-mark for insect repellants, insecticides and rat poisons in view of two references disclosing the marks "Wizard" and "Whiz," respectively, both appropriated to insecticides.

It was held that since the goods involved are in part identical it seems clear that applicant's mark so nearly resembles each of the registered marks as to be likely to cause confusion.

In response to applicant's argument that "Whiz" and "Wizard" are equally confusable and that the registration of both affords ample authority and precedent for the registration of applicant's mark, it was held that it has long been settled that an applicant's right to the registration of a mark, which implies the exclusive right to use the same, is not enlarged or changed by a consideration of confusingly similar trade-marks which have been registered in the Patent Office.

In response to applicant's contention that both marks are descriptive and should not have been registered, it was held that it is also well settled that the validity of a trade-mark registration effected under the act of February 20, 1905, as were those here in question, may not be collaterally attacked; and it is immaterial that the attack here attempted occurs in the prosecution of an ex parte proceeding, for the same rules are applied in reaching a decision whether the proceedings are ex parte or contested.

STERLING DRUG INC. *v.* BONNE BELL, INC., Opposition No. 23,562.

In a decision rendered July 11, 1946 (169 Ms. Dec. 88, 70 USPQ 161), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Sterling Drug Inc., of Wilmington, Del., to the application of Bonne Bell, Inc., of Cleveland, Ohio, to registration of "Mexitan," claimed to have been used since April 15, 1942, as a trade-mark for cosmetic foundation lotion, especially leg make-up, on the ground that applicant's mark is confusingly similar to opposer's trade-mark "Mulsitan," registered August 17, 1937, for a sunburn preventative.

It was held that applicant's leg make-up and opposer's sun tan lotion are closely related merchandise; and if not actually competitive, they are clearly of the same descriptive properties.

It was held that "Mexitan" and "Mulsitan" do not differ greatly either in appearance or in sound and such significance as they have is substantially the same so that when used as they are here used on goods of the same descriptive properties, the marks would be likely to cause confusion in the mind of the purchasing public.

PHILLIPS PACKING COMPANY, INC., *v.* W. T. PHILLIPS, JR., Opposition No. 23,672.

In a decision rendered July 12, 1946 (169 Ms. Dec. 89, 70 USPQ 244), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of Phillips Packing Company, Inc., of Cambridge, Md., to the application of W. T. Phillips, Jr., of Hampton, Va., for registration of a trade-mark for potato chips, French fried popped corn and peanuts and further adjudged ex parte that applicant is not entitled to the proposed registration. Applicant's mark is essentially the disclaimed notation "Phillips Preferred," beneath which is printed the descriptive expression "Colonial Style," likewise disclaimed, used in connection with certain ancillary design features including the representation of a man and woman in colonial attire and other scrolls and embellishments, as exemplified in the drawing and specimens filed with the application.

The opposition was predicated upon opposer's prior use of a mark comprising the notation "Phillips Delicious," registered under the provisions of the act of March 19, 1920, for canned vegetables, canned soups, canned corned beef hash, canned beans with pork, canned chili con carne, canned spaghetti, canned vegetable juices, canned tomato puree, canned tomato juice. At the time of taking testimony, opposer had extended its use of this mark to about sixty varieties of food products, including canned Irish potatoes.

It was held that all of the goods listed in the application are within the normal expansion of opposer's business, if not actually of the same descriptive properties as all of the goods now being sold by opposer.

It was held that the marks of the instant case are both dominated by the identical word "Phillips," and that the remaining word portions, being purely descriptive, can have little if any trade-mark significance, so that the marks as a whole are thus so similar as to be likely to confuse purchasers as to the origin of the goods on which they appear.

After noting that in his first action on the application of Phillips, the Examiner of Trade-Marks refused registration for the reason that the mark is dominated by the surname "Phillips" which is not distinctively displayed, whereupon the disclaimer was filed which was accepted by the Examiner and the refusal to register was withdrawn, it was held that the Examiner's action in withdrawing the refusal to register was clearly erroneous, since a composite mark that is dominated by non-registrable matter may not be registered under the Trade-Mark Act of 1905 merely because such matter is disclaimed.

AMERICAN SAFETY RAZOR CORPORATION *v.* W. G. SHELTON CO., INC. (GAYLORD-SHELTON, INC., ASSIGNEE, SUBSTITUTED), Opposition No. 23,344.

In a decision rendered July 12, 1946 (169 Ms. Dec. 92, 70 USPQ 243), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences dismissing the opposition of American Safety Razor Corporation, of Brooklyn, N. Y., to the application of W. G. Shelton Co., Inc., (Gaylord-Shelton, Inc., Assignee Substituted), of St. Louis, Mo., for registration of the word "Gem" as a trade-mark for a kit comprising an apparatus for giving a so-called permanent wave to the human hair and containing the following articles: solutions for softening the hair, neutralizing solutions, covering for the hair to retard evaporation of solutions, pins for tucking in and smoothing the ends of the hair when winding, pads for making test curls, papers for retaining wound strands of hair against unwinding, and liquid for giving sheen to the hair in the completed curl.

Opposer owns several registrations of the same mark, all issued prior to applicant's first use of the mark sought to be registered, covering safety razors, safety razor blades, electric razors, shaving soaps in various forms, and related merchandise.

It was held that the Examiner of Interferences rightly ruled that the goods of opposer and applicant are of different descriptive properties.

It was held that as the goods of the parties do not reach the same class of purchasers, there would thus be no opportunity for confusion even were they descriptively similar.

In response to opposer's argument that the application to register contains no restrictions as to the manner of sale or the class of purchasers of applicant's goods and that applicant may at a future date sell its goods in exactly the same manner as opposer's goods are distributed, it was held that the registration will cover only the goods as particularly described and the description is inapplicable to any collection of gadgets that would be likely to find a market in common with opposer's merchandise.

EX PARTE F. E. ANDERSON OIL CO., Serial No. 465,352.

In a decision rendered July 15, 1946 (169 Ms. Dec. 94, 70 USPQ 329), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to F. E. Anderson Oil Co., of Portland, Conn., the notation "Rustavoid," under the provisions of the act of February 20, 1905, as a trade-mark for petroleum oils and greases for preventing rust.

It was held that the Examiner rightly ruled that the mark is descriptive of the goods because it signifies they are rust avoiding in their action, since the mark is descriptive within the meaning of the act if it describes the intended purpose, function, or use of the goods to which it is applied.

After noting that applicant cites several registrations of marks for the same class of goods, some of which possibly are no less descriptive than its own, it was held that such deviations from the norm are regrettable, but that the right of registration in the instant case may not be determined by the actions had in those cases.

After noting that applicant refers to an expired registration to another of the identical mark "Rustavoid," for preparations in grease-like and liquid form for preventing rust, it was held that neither can that registration have any controlling influence here, since if a mistake was made in granting that registration, it would furnish no precedent justifying another improper registration.

NATIONAL BISCUIT COMPANY *v.* HENRY E. BRALOFF, Opposition No. 23,601.

In a decision rendered July 15, 1946 (169 Ms. Dec. 95, 70 USPQ 328), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of National Biscuit Company, of New York, N. Y., to the application of Henry E. Braloff, of Brooklyn, N. Y., for registration of the word "Beacon" as a trade-mark for fibreboard and paper drums for solid, powdered and liquid materials packaged in bulk.

After noting that the Examiner of Interferences sustained the opposition on the ground that applicant's mark is merely geographical within the meaning of the statute and registration thereof is barred by the geographical clause, it was held that that conclusion is erroneous but that the result reached by the Examiner of Interferences was nevertheless correct.

It was held that on the record presented the registration by applicant of the name of the city, Beacon, as a trade-mark for fibreboard and paper drums will injure opposer by leading the public to believe that appellant's merchandise originated in the city of Beacon and is a product of the opposer; nor is the situation changed by the fact that "Beacon" is not merely a geographical name or term; so that the likelihood that opposer would be injured by the proposed registration is thus established and opposer was required to prove nothing more.

BYER-ROLNICK COMPANY *v.* GALE SHOE MFG. CO., Cancellation No. 4413.

In a decision rendered July 15, 1946 (169 Ms. Dec. 96, 70 USPQ 327), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the petition of Byer-Rolnick Company, of Garland, Tex., to cancel trade-mark registration No. 407,269, issued May 23, 1944, under the provisions of the act of March 19, 1920, to Gale Shoe Mfg. Co., of Boston, Mass. The mark so registered to respondent is "ResisToe Safety Shoe," the "Toe" portion being vertically offset from the "Resis" portion, beneath which the words "Safety Shoe" are printed in two lines. The goods named in the registration are shoes—namely, women's shoes of leather or fabric or of combinations of said materials. The petition to cancel was predicated upon petitioner's ownership of an earlier registration for men's hats, issued under the act of February 20, 1905, which registration covers a composite mark consisting in the notation "Resistol," inclosed within a parallelogram and superimposed upon a figure in armor with a shield and an arrow.

It was held that although the goods of the parties are of course specifically different, nevertheless clearly they possess the same descriptive properties.

It was held that the two marks viewed as a whole differ in appearance and in meaning, but "ResisToe" is idem sonans with "Resistol" and these terms dominate the marks so that respondent's mark, when spoken, is nothing more than the dominant feature of petitioner's mark with the addition of descriptive words.

CARTER PRODUCTS, INC., *v.* AR-EX COSMETICS, INC., Opposition No. 23,516.

In a decision rendered July 30, 1946 (169 Ms. Dec. 99, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of Carter Products, Inc., of New York, N. Y., to the application of Ar-Ex Cosmetics Inc., of Chicago, Ill., for registration of a trade-mark for a cosmetic hand cream, the mark comprising a somewhat elaborate reproduction of the prescription symbol "Rx," above the notation "Ar-Ex," and also including the words "chap cream," these words and the symbol being disclaimed.

Opposer relies upon its ownership of the trade-mark "Arrid" previously registered for deodorant cream.

It was held that although the Examiner of Interferences rightly ruled that the goods of the parties are of the same descriptive properties nevertheless they are by no means identical, nor would they appear to be particularly related in use.

It was held that "Ar-Ex" and "Arrid" have the same first syllable; but viewed as a whole they are unlike in appearance, sound and significance; and when the term "Ar-Ex" is considered in association with the symbol of applicant's mark, any lingering possibility of confusion disappears for the term and the symbol are equivalents so that the goods in question might be safely sold under somewhat similar marks because of the per se difference between the goods.

UNITED DRUG COMPANY (BY CHANGE OF NAME, UNITED-REXALL DRUG COMPANY) *v.* AR-EX COSMETICS INC., Opposition No. 23,520.

In a decision rendered July 30, 1946, (169 Ms. Dec. 97, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Interferences sustaining the opposition of United Drug Company (by change of name, United-Rexall Drug Company), of Boston, Mass., to the application of Ar-Ex Cosmetics Inc., of Chicago, Ill., for registration of a trade-mark for cosmetic hand cream and adjudged that the applicant is not entitled to the registration for which it has made application.

Applicant's mark is essentially the well known "Rx" prescription symbol, immediately below which is printed the notation "Ar-Ex," the mark also including the words "chap cream" in relatively large type which are disclaimed apart from the mark together with the prescription symbol, use of the mark being claimed since February 5, 1944. In the notice of opposition opposer pleaded its ownership of a large number of registrations one of which discloses the trade-mark "Agarex" registered June 19, 1928, for an emulsion of mineral oil for lubricating the bowels and another of which discloses the trade-mark "Rex" registered February 3, 1903, and renewed for liniment for internal and external use for both man and beast.

It was held in the absence of additional evidence that opposer's lubricant differs in its descriptive properties from applicant's product.

It was held that the descriptive properties of a chap cream and those of a liniment are the same; it is a matter of common knowledge that both are applied to the skin to relieve discomfort; both are medicinal in character and it would not be unreasonable to assume that they were manufactured by the same concern; and here the applicant has appropriated the opposer's entire mark so that the opposition was properly sustained.

It was further held that applicant's mark is nonregistrable regardless of the opposition since the statute forbids registration of marks that consist merely in words or devices which are descriptive of the goods with which they are used or of the character or quality of such goods and the "Rx" symbol is descriptive of any medicinal preparation in that it indicates that such preparation has been prescribed by a physician; and because its use in a trade-mark for such goods is necessarily deceptive, its disclaimer is of no avail; also, in this particular case, its association with the undisclaimed expression "Ar-Ex" gives that expression precisely the same meaning.

In response to applicant's argument that its product is a cosmetic and not a medicinal preparation, it was held that if that be true, the mark itself expressly misinforms purchasers as to the character of the goods which is an additional reason why it should not be registered.

EX PARTE HOUGHTON W. CLARKE, Serial No. 459,192.

In a decision rendered July 31, 1946 (169 Ms. Dec. 102, — USPQ —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks refusing to register to Houghton W. Clarke, of New York, N. Y., an alleged trade-mark under the provisions of the act of February 20, 1905, for goods described in the application as dishes of metal, earthenware, glass, plastics and the like for serving and transporting prepared foods.

The mark is the word "mealpack," printed horizontally in a circular border, with the top of the letter "l" and the base of the letter "p" extended vertically to the periphery of the circle to form a cross. Being admittedly descriptive of the goods to which appropriate, the word per se is disclaimed; but applicant seeks to register the distinctive design in which the letters of the word form a constituent part.

It was held that a composite mark that is dominated by nonregistrable matter may not be registered under the Trade-Mark Act of 1905 merely because such matter is disclaimed; applicant's mark not only is dominated by the word "mealpack" but that word substantially constitutes the mark, and distinctiveness of display adds nothing to the registrability of marks forbidden registration by the statute because descriptive; otherwise, no disclaimer would be necessary.

In response to applicant's traverse of the Examiner's requirement that in the description of the goods in the application the word "base" be inserted before the word "metal" to distinguish the applicant's goods from metal dishes in the preciousmetalware class, it was held that it is clearly the Examiner's duty to restrict applicant's good to a single class of merchandise as established by the Commissioner and in so doing to insist that the particular descriptions of goods be stated; if applicant desires protection in more than one class, his remedy is by division.

DAGGETT & RAMSDELL *v.* SAMUEL BONAT & BRO., Opposition No. 23,385.

In a decision rendered July 31, 1946 (169 Ms. Dec. 100, — USPQ —), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Interferences who had sustained the opposition of Daggett & Ramsdell, of New York, N. Y., to the application of Samuel Bonat & Bro., of New York, N. Y., for registration of a composite trade-mark comprising the notation "Bonat Harol," appropriated to hair shampoo and hair shampoo liquid cream lotions. The word "Bonat," being a surname, is disclaimed. The mark has been used since October 15, 1943. Opposer relied upon its ownership of the trade-mark "Ha-Kol," registered July 6, 1915, and reregistered November 5, 1935, for an application for relief of headache, neuralgia, and similar

pains resulting from exposure, exhaustion, fatigue, worry, anxiety, insomnia, mental strain, nervous depression, car sickness, or seasickness.

After noting that the Examiner of Interferences, citing cases, had held that applicant's goods and opposer's are broadly of the same descriptive properties within the meaning of the statute, it was held that those cases are distinguishable from the instant case, because the products involved in each were both medicinal in character, which clearly is not true of applicant's shampoo preparations; even if the Examiner was right, the specific differences between the goods would still be considered in determining the question of confusing similarity between the marks.

It was held that although "Ha-Kol" and "Harol" are somewhat similar in appearance, nevertheless they do not sound alike nor do they suggest the same idea; moreover, applicant's mark is not merely the word "Harol," but it is "Bonat Harol"; and a design so thus the marks as a whole do not look alike and there is no reasonable likelihood that the registration of applicant's mark will cause confusion or that opposer will be damaged thereby.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 27, 1946

[VOL. 589. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 501,547. W. & A. MANUFACTURING CO., Atlanta, Ga. Filed May 6, 1946.

ARISTOCRAT

FOR STEP-ON GARBAGE CANS.
Claims use since Apr. 15, 1946.

Ser. No. 502,727. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed May 24, 1946.

CHAMPION

FOR PAPER BAGS.
Claims use since 1876.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 474,399. DRONSFIELD BROTHERS LIMITED, doing business as Atlas Works, Oldham, England. Filed Sept. 20, 1944.

ATLAS

FOR EMERY TAPES AND EMERY FILLETS.
Claims use since 1900.

Ser. No. 481,485. MACGREGOR MEN'S TOILETRIES, INC., New York, N. Y. Filed Mar. 29, 1945.

Gold Cup

FOR SHAVING CREAM.
Claims use since Mar. 9, 1945.

Ser. No. 488,674. ISAAC E. THOMAS, doing business as Candlelight, Plymouth, Mich. Filed Sept. 18, 1945.

Candlelight

FOR POLISH FOR PRECIOUS METALS AND VARIOUS ARTICLES OF JEWELRY.
Claims use since Nov. 22, 1937.

Ser. No. 490,909. ISAAC E. THOMAS, doing business as Candlelight, Plymouth, Mich. Filed Nov. 1, 1945.



FOR POLISH FOR PRECIOUS METALS AND VARIOUS ARTICLES OF JEWELRY.
Claims use since Sept. 22, 1945.

Ser. No. 493,369. ALBERT LEAVITT, doing business under the name and style of E-Z-Du Products, San Francisco, Calif. Filed Dec. 15, 1945.

E-Z-DU

FOR PREPARATION IN POWDER FORM AND LIQUID FORM FOR CLEANING FURNITURE, UPHOLSTERY, RUGS AND CARPETS, PAINTS, WOODWORK, FLOORS, DISHES, ENAMELWARE, GLASS, TILE, CHINAWARE, SILVER, METAL, PORCELAIN, AND FOR WASHING AND CLEANING AUTOMOBILES.
Claims use since Oct. 1, 1945.

Ser. No. 495,704. TISH PRODUCTS CORPORATION, Brooklyn, N. Y. Filed Jan. 30, 1946.

FREN

FOR SOAP IN POWDERED FORM.
Claims use since Dec. 4, 1945.

CLASS 5

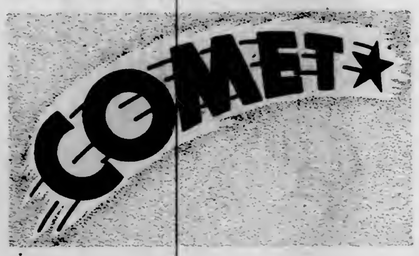
ADHESIVES

Ser. No. 498,093. SWAN-FINCH OIL CORPORATION, New York, N. Y. Filed Mar. 12, 1946.

SAFCO

FOR CORE OILS AND CORE BINDERS.
Claims use since May 5, 1937.

Ser. No. 499,415. THE KEEVER STARCH COMPANY, Columbus, Ohio. Filed Apr. 1, 1946.



FOR WALL SIZE.
Claims use since Mar. 11, 1946.

CLASS 6

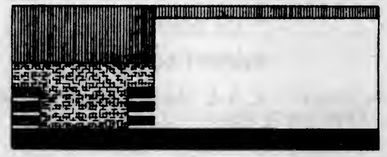
CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 460,594. CALVITAL COMPANY, New York, N. Y. Filed May 13, 1943.

☆ CALVITAL ☆

FOR MEDICAL COMPOSITION CONTAINING VITAMINS, MINERALS, AND LACTOSE.
Claims use since June 1, 1942.

Ser. No. 482,076. DR. SALSBURY'S LABORATORIES, Charles City, Iowa. Filed Apr. 12, 1945.



The trade-mark comprises two groups of narrow horizontal stripes shown in the colors black, red, and white displayed on each side of a yellow field, the top and bottom margin being red and black respectively.

FOR A MILD ASTRINGENT AND A DRINKING WATER BACTERIOSTAT FOR POULTRY, VACCINES FOR POULTRY AND DOMESTIC ANIMALS, VERMIFUGE FOR DOMESTIC ANIMALS, INSECTICIDE, CONTROL FOR CANNIBALISM IN POULTRY, AND FUMIGANT.
Claims use since July 9, 1935.

Ser. No. 483,222. FLOWER FOODS, INC., Maywood, Ill. Filed May 11, 1945.



FOR COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, STERILIZING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS AND ADAPTED TO BE ADDED TO WATER IN WHICH THE PLANTS ARE IMMERSED.
Claims use since Feb. 1, 1939.

Ser. No. 484,458. JEAN PATOU, INC., New York, N. Y. Filed June 12, 1945.

L' HEURE ATTENDUE

FOR PERFUMES AND TOILET WATER.
Claims use since June 8, 1945.

Ser. No. 486,493. LINNEA PERFUMES, INC., Chicago, Ill. Filed July 30, 1945.

Linnea

FOR PERFUMES, COLOGNES, BATH SALTS, DUSTING POWDER, SACHET POWDER, DEODORANT FOR PERSONAL USE, BATH OIL, BATH LOTION, FACE CREAMS, ROUGE, FACE LOTIONS, POWDER BASE, FACE POWDER, LIPSTICK, SHAMPOO, AFTER-SHAVE LOTION, AND HAIR OIL.
Claims use since Dec. 10, 1937.

Ser. No. 487,182. RICHARD T. ENDICOTT, Pawnee, Okla. Filed Aug. 17, 1945.

E Endicott E

FOR PREPARATION FOR THE TREATMENT OF HOGS FOR THUMP, WORMS, LOSS OF APPETITE, SCOURS AND AFTER EFFECT FROM CHOLERA VACCINATION.
Claims use since January 1944.

Ser. No. 488,870. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 22, 1945.

TORTOISE SHELL

FOR NAIL ENAMEL, LIPSTICKS, FACE POWDER, AND ROUGE.
Claims use since Sept. 10, 1945.

Ser. No. 493,516. MARIE RICHELIEU PARFUM ODESANT, INC., New York, N. Y. Filed Dec. 18, 1945.

SADDLE BOW

FOR TOILET WATER.
Claims use since April 1941.

Ser. No. 494,013. BUFFINGTON'S INC., Worcester, Mass. Filed Dec. 29, 1945.

ALLAHZOLE

FOR EXTERNAL MEDICINAL APPLICATION CONTAINING SULFATHIAZOLE AND ALLANTOIN FOR THE TREATMENT OF LOCAL BACTERIAL INFECTION.
Claims use since April 1943.

Ser. No. 494,925. MARY SCOTT ROWLAND, LTD., New York, N. Y. Filed Jan. 17, 1946. Under 10-year proviso.

Mary Scott Rowland

FOR FACE POWDER, LIP STICK, POMADE, ROUGE, MASCARA, COLD CREAM, THEATRICAL CREAM, DEODORANT CREAM, ASTRINGENT SKIN TONIC, SKIN LOTIONS, SHAMPOOS, BRILLIANTINE, SUNTAN OIL, NAIL POLISH, DUSTING POWDER, TALCUM POWDER, CLEANSING CREAM, NOURISHING CREAM, PROTECTIVE CREAM, VITALIZING EMOLLIENT SKIN CREAM, WAVE SET, EYEBROW PENCIL, EYE SHADOW, NIGHT CREAM, DRY SKIN CREAM, MAKE-UP FILM, BEAUTY MASK, SKIN FRESHENER, FOUNDATION LOTION, HAND LOTION AND FACIAL OIL.
Claims use since 1887.

Ser. No. 495,818. PETROLEUM SOLVENTS CORPORATION, New York, N. Y. Filed Feb. 1, 1946.

Loosite

FOR CHEMICAL SOLVENT AND CLEANER HAVING PENETRANT AND CORROSION INHIBITING PROPERTIES AND USEFUL FOR REMOVING RESIDUES OF PETROLEUM PRODUCTS, NOTABLY SLUDGE AND GUM, FOR FREEING STICKY VALVES, FOR CLEANING OIL LINES AND SCREENS, AND FOR INHIBITING THE ACTION OF ACIDS.
Claims use since Feb. 1, 1934.

Ser. No. 495,819. PETROLEUM SOLVENTS CORPORATION, New York, N. Y. Filed Feb. 1, 1946.

SILOO

FOR CHEMICAL SOLVENT AND CLEANER HAVING PENETRANT AND CORROSION INHIBITING PROPERTIES USEFUL FOR REMOVING RESIDUES OF PETROLEUM PRODUCTS, NOTABLY SLUDGE AND GUM, FOR PREVENTING THE FORMATION AND ACCUMULATION OF RESIDUES OF PETROLEUM PRODUCTS, NOTABLY SLUDGE AND GUM, FOR KEEPING FUEL LINES AND FUEL SYSTEMS CLEAN, FOR PREVENTING STICKY RINGS AND VALVES, FOR PROTECTING BEARINGS AND OTHER METALLIC SURFACES AGAINST CORROSION, FOR REMOVING WATER OF CONDENSATION, FOR CLEANING FUEL OIL TANKS AND HEATING EQUIPMENT, FOR TREATING CLOGGED OIL FILTERS, PIPE LINES, SCREENS AND BURNERS, FOR REMOVING POLYMERIZED GUMS

AND ACTING AS AN INHIBITOR AGAINST ELECTROLYSIS, FOR MAINTAINING FREE FLOW OF WATER THROUGH THE RADIATOR AND ENGINE OF INTERNAL COMBUSTION ENGINES, FOR KEEPING WATER CLEAR AND CLEAN AND FOR RETARDING OVERHEATING, FOR FLUSHING GEAR CASES, FOR FREEING TIGHTLY BOUND PARTS, SUCH AS NUTS, BOLTS, MUFFLERS, FOR REMOVING ALUMINUM HEADS, FOR CLEANING BROMIDE DEPOSITS FROM CARBURETOR JETS, FOR CLEANING FIRE ARMS, FISHING TACKLE, GOLF CLUBS, LOCKS, WATCHES, AND PRECISION INSTRUMENTS, FOR USE IN REBORING AND CRANK SHAFT GRINDING AND FOR CLEANING METALLIC AND OTHER SURFACES OF DIRT, GREASE, CARBON AND OTHER FOREIGN MATERIALS.
Claims use since Dec. 1, 1935.

Ser. No. 495,865. CIVRAY, INC., New York, N. Y. Filed Feb. 2, 1946.

Marabou

FOR CREAM SHAMPOO.
Claims use since Jan. 15, 1946.

Ser. No. 496,359. ZITOMER CHEMISTS, INC., New York, N. Y. Filed Feb. 9, 1946.

ZIO
(ZIO)

FOR EYE WASH.
Claims use since January 1936.

Ser. No. 496,360. ZITOMER CHEMISTS, INC., New York, N. Y. Filed Feb. 9, 1946.

ZITABLEX

FOR VITAMIN PREPARATION WITH IRON SULFATE.
Claims use since January 1939.

Ser. No. 498,777. LE GALION, S. A., Neuilly, France. Filed Mar. 22, 1946.

BOURRASQUE

FOR PERFUMES AND TOILET WATER.
Claims use since June 1937.

Ser. No. 498,778. LE GALION, S. A., Neuilly, France. Filed Mar. 22, 1946.

BRUMES

FOR PERFUMES AND TOILET WATER.
Claims use since Jan. 14, 1937.

Ser. No. 498,779. LE GALION, S. A., Neuilly, France. Filed Mar. 22, 1946.

SHAKE-HANDS

FOR PERFUMES AND TOILET WATER.
Claims use since Sept. 21, 1937.

Ser. No. 498,780. LE GALION, S. A., Neuilly, France. Filed Mar. 22, 1946.

SORTILEGE

FOR PERFUMES AND TOILET WATER.
Claims use since June 1937.

Ser. No. 498,903. DR. D. JAYNE & SON, INC., Philadelphia, Pa. Filed Mar. 25, 1946. Under 10-year proviso.

D. Jayne

FOR MEDICINAL PREPARATIONS INDICATED IN AND FOR THE TREATMENT OF ACIDOSIS; ANEMIA AND OTHER AFFECTIONS OF THE BLOOD; BRUISES; CONSTIPATION; COUGHS; DIARRHOEA; DYSPEPSIA; FATIGUE; FLATULENCY; FUNCTIONAL DEBILITY; GASTRIC IRRITATIONS; HEADACHES; HEARTBURN; HYPERACIDITY; INDIGESTION; INTESTINAL IRRITATIONS; LIVER COMPLAINT; LOSS OF APPETITE, STRENGTH AND WEIGHT; MUSCLAR ACHES AND PAINS; PHYSICAL DEBILITY; RHEUMATIC ACHES, IRRITATIONS AND PAINS; SOUR STOMACH; SPRAINS; STOMACH DISORDERS; STOMACH DISTRESS; STRAINED LIGAMENTS AND MUSCLES; WORMS; AND ALL OTHER SUCH ANALOGOUS, SIMILAR OR RELATED HUMAN AILMENTS OR PATHOLOGIC CONDITIONS IN OR FOR THE TREATMENT OF WHICH IT MAY BE NECESSARY OR ADVISABLE TO APPLY OR ADMINISTER ALTERATIVES, APERIENTS; BALSAMS; BLOOD-BUILDING, FORTIFYING, PURIFYING, REGULATING AND RENOVATING AGENTS; BODY BUILDING AND STRENGTHENING AGENTS; CARMINATIVES; CATHARTICS; COUGH SYRUPS; CREAMS; DIGESTIVES; ELIXIRS; EMETICS; EXPECTORANTS; LAXATIVES; LINIMENTS; OINTMENTS; POULTICES; PURGATIVES; SALVES; STIMULANTS; TISSUE BUILDING, RENOVATING AND STRENGTHENING AGENTS; TONICS; VERMIFUGES; AND VITAMINS.
Claims use since 1847.

Ser. No. 498,959. VALMOR PRODUCTS CO., Chicago, Ill. Filed Mar. 25, 1946.

SILK-TOD

FOR HAIR DRESSING.
Claims use since Jan. 5, 1946.

Ser. No. 498,981. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J. Filed Mar. 26, 1946.

PYRIBENZAMINE

FOR PREPARATION INDICATED FOR USE IN ALLERGIC CONDITIONS.
Claim use since July 12, 1945.

Ser. No. 499,035. AMERICAN CYSTOSCOPE MAKERS, INC., New York, N. Y. Filed Mar. 27, 1946.

ACMICIDE

FOR PREPARATION FOR THE DESTRUCTION OF PATHOGENIC AND NON-PATHOGENIC MICRO-ORGANISMS.
Claims use since Mar. 6, 1946.

Ser. No. 499,037. ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa. Filed Mar. 27, 1946.

VICTOR

FOR POISONS FOR INSECTS, RODENTS, AND OTHER PESTS.
Claims use since Feb. 11, 1946.

Ser. No. 499,052. IRVING DINERMAN, doing business as Masterblend Cosmetic Co., Brooklyn, N. Y. Filed Mar. 27, 1946.

BOJANGLES

FOR HAIR POMADE.
Claims use since Mar. 11, 1946.

Ser. No. 499,141. MCLAUGHLIN GORMLEY KING COMPANY, Minneapolis, Minn. Filed Mar. 28, 1946.

EVERCIDE

FOR INSECTICIDES.
Claims use since Mar. 8, 1946.

Ser. No. 499,169. E. R. SQUIBB & SONS, New York, N. Y. Filed Mar. 28, 1946.

INTOCOSTRINA

FOR PREPARATIONS FOR PRODUCING MUSCULAR RELAXATION.
Claims use since Jan. 18, 1946.

Ser. No. 499,309. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 30, 1946.

BIOMEX

FOR PHARMACEUTICAL PREPARATIONS—NAMELY, GLANDULAR EXTRACTS, HORMONE PREPARATIONS, TONICS, VITAMINS AND PRODUCTS FOR THE TREATMENT OF DIGESTIVE DISEASES.
Claims use since Mar. 16, 1946.

Ser. No. 499,310. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 30, 1946.

PANTIMEX

FOR PHARMACEUTICAL PREPARATION—NAMELY, INJECTABLE EXTRACT OF LIVER AND STOMACH.
Claims use since Mar. 16, 1946.

Ser. No. 499,311. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 30, 1946.

RHISTOMEX

FOR PHARMACEUTICAL PREPARATION—NAMELY, INJECTABLE SOLUTION OF HISTIDINE MONOHYDROCHLORIDE, VITAMIN C AND B.
Claims use since Mar. 16, 1946.

Ser. No. 499,312. BIOCHEMICAL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 30, 1946.

TESTOVEX

FOR PHARMACEUTICAL PREPARATION—NAMELY, A MIXTURE OF TESTICULAR EXTRACT AND TESTOSTERONE PREPARED FOR ORAL APPLICATION AND INJECTION.
Claims use since Mar. 16, 1946.

Ser. No. 502,153. PARFUMS SCHIAPARELLI, INC., New York, N. Y. Filed May 15, 1946.

STRATOSPHERE

FOR PERFUMES, COLOGNES, TOILET WATERS, SKIN DRESSINGS, LIPSTICKS, ROUGES, FACE CREAMS, COSMETIC AND BATH OILS, AND FACE AND BODY DUSTING POWDERS.
Claims use since May 7, 1946.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 493,211. PIEZO MANUFACTURING CORPORATION, New York, N. Y. Filed Dec. 13, 1945.

PIEZO

FOR SMOKING PIPES, SMOKING PIPE PACKERS, TOBACCO HUMIDORS, PIPE RACKS, CIGAR AND CIGARETTE HOLDERS, CIGAR CUTTERS, AND CIGARETTE PAPER CUT TO SIZE.
Claims use since Dec. 1, 1945.

Ser. No. 496,305. ERASMUS ATLASS CO., New York, N. Y. Filed Feb. 9, 1946.

POUCHMASTER

FOR TOBACCO POUCHES.
Claims use since Jan. 29, 1946.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 495,958. DITTO, INCORPORATED, Chicago, Ill. Filed Feb. 4, 1946.

COLOR-SEAL

FOR HECTOGRAPH CARBON PAPER.
Claims use since Jan. 8, 1946.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 480,609. OAKES & COMPANY, doing business as Tru-Test, Chicago, Ill. Filed Mar. 7, 1945.

VAL-KEEN

FOR CULINARY UTENSILS MADE OF BASE METALS—NAMELY, COOKING POTS AND PANS, KETTLES, ROASTERS, TEA POTS, COFFEE POTS, MIXING BOWLS, COLANDERS AND FUNNELS; MILK STRAINERS, BULL RINGS, HAYRACK CLAMPS, CHICKEN WIRE, BARBED WIRE, WIRE FENCING, DUST PANS, SHOWER BATH CURTAINS, SHOWER CURTAIN HOOKS, FURNITURE CASTERS, METAL WALL BRACKETS, TOILET SEATS, SHOE RACKS, TIE AND TOWEL HOLDERS, METAL SOAP DISHES, HOSE CONNECTORS, OIL FAUCETS, WATER FAUCETS, STOPCOCKS, SHUTOFF VALVES, WATER AND DRAIN PIPE AND FITTINGS, COTTER PINS, DOOR SPRINGS AND HINGES, BASIN AND SINK STOPPERS, METALLIC WASHERS, NUTS AND THREADED BOLTS, RIVETS, WOOD SCREWS, NAILS, BRADS, TACKS, STAPLES, TIRE SKID CHAINS, WINDOW SASH CHAINS AND PULLEYS, METAL DRAPERY FIXTURES, AND HOSE SPRINKLERS.
Claims use since Sept. 15, 1944.

Ser. No. 492,981. ADVANCE ALUMINUM CASTINGS CORP., Chicago, Ill. Filed Dec. 10, 1945.

GOLD BOND

FOR CAST ALUMINUM COOKWARE—NAMELY, KETTLES, TEAKETTLES, PRESERVING KETTLES, COFFEE POTS, ROASTERS, TURKEY ROASTERS, FRENCH ROASTERS, DUTCH OVENS, CASSEROLES, SAUCE PANS, BOILERS, DOUBLE BOILERS, TRIPLICATE KETTLE SETS, OMELET PANS, SKILLETS, FRY PANS, DOUBLE FRY PANS, FRENCH FRYERS, GRIDDLES, BREAKFAST GRILLS, TEAPOTS, AND STEAK PLATTERS.
Claims use since Mar. 25, 1932.

Ser. No. 492,983. ADVANCE ALUMINUM CASTINGS CORP., Chicago, Ill., Filed Dec. 10, 1945.

Hercules

FOR CAST ALUMINUM COOKWARE—NAMELY, KETTLES, TEAKETTLES, PRESERVING KETTLES, COFFEE POTS, ROASTERS, TURKEY ROASTERS, FRENCH ROASTERS, DUTCH OVENS, CASSEROLES, SAUCE PANS, BOILERS, DOUBLE BOILERS, TRIPLICATE KETTLE SETS, OMELET PANS, SKILLETS, FRY PANS, DOUBLE FRY PANS, FRENCH FRYERS, GRIDDLES, BREAKFAST GRILLS, TEAPOTS, AND STEAK PLATTERS.
Claims use since Aug. 17, 1931.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 481,336. OMAHA WELDING COMPANY, Omaha, Nebr. Filed Mar. 26, 1945.

UNIVERSAL O.W.C. #6 ELECTRODES

The word "Electrodes" is disclaimed apart from the mark.
FOR WELDING RODS FOR CONSUMPTION IN WELDING OPERATIONS.
Claims use since Feb. 25, 1941.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 487,456. BETTER FINISHES AND COATINGS, INC., Newark, N. J. Filed Aug. 23, 1945.

BFC

FOR COATING MATERIALS—NAMELY, READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, AND PLASTIC PAINTS.
Claims use since May 1, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 497,720. KISCO COMPANY, INC., St. Louis, Mo. Filed Mar. 6 1946.

KISCO AIRSPRAY

FOR CIRCULATOR FAN ASSEMBLIES.
Claims use since Feb. 7, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 481,226. DOMENICK IPPOLITO, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Filed Mar. 23, 1945.

HOLLYWOOD BOOK DOLL

The words "Hollywood" and "Doll" are disclaimed apart from the mark.
FOR DOLLS.
Claims use since November 1944.

Ser. No. 493,853. TRI-ART CO., Providence R. I. Filed Dec. 22, 1945.

Zing-Zak

FOR GAME UTILIZING A PLAY BOARD, SPINNER, TOKENS, AND COUNTERS.
Claims use since Nov. 15, 1945.

Ser. No. 494,479. FRED ARBOGAST, Akron, Ohio. Filed Jan. 9, 1946.

Hula Spinner

The word "Spinner" is disclaimed apart from the mark.
FOR ARTIFICIAL FISH BAIT.
Claims use since Nov. 1, 1940.

Ser. No. 494,970. ROBERT W. HEMSCH, doing business as Africa Game Company, New York, N. Y. Filed Jan. 18, 1946.

CHOP

FOR GAME CONSISTING OF TWELVE BOWLS PLAYED WITH MARBLES.
Claims use since Dec. 3, 1945.

Ser. No. 495,672. HIAWATHA METAL PRODUCTS, INC., Manistique, Mich. Filed Jan. 30, 1946.

Keeco Flyer

The use of the word "Flyer" apart from the mark, is disclaimed.
FOR ROLLER SKATES.
Claims use since Dec. 20, 1945.

Ser. No. 502,370. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed May 18, 1946.

BIG HIT

FOR COIN CONTROLLED AMUSEMENT APPARATUS.
Claims use since Jan. 25, 1946.

Ser. No. 502,703. ANTHONY J. LIGOURI, Des Moines, Iowa. Filed May 24, 1946.

Bingo

FOR GAME CONSISTING OF A PUNCH BOARD.
Claims use since Apr. 1, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 483,635. SPIEGEL, INC., Chicago, Ill. Filed May 21, 1945.

DAIRY QUEEN

Applicant disclaims the exclusive use of the word "Dairy" apart from the mark.
FOR MILKING MACHINES, AND CREAM SEPARATORS.
Claims use since September 1935.

Ser. No. 486,906. THE LIQUID CARBONIC CORPORATION, Chicago, Ill. Filed Aug. 8, 1945.

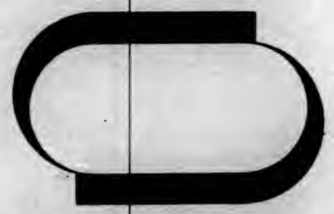
Liquid

The drawing is lined for the color red.

FOR CARBONATING MACHINES, MACHINES FOR FILLING BOTTLES, MACHINES FOR MIXING BEVERAGES, MACHINES FOR APPLYING CROWNS TO BOTTLES, MACHINES FOR APPLYING LABELS TO BOTTLES, MACHINES FOR WASHING BOTTLES, MACHINES KNOWN IN THE TRADE AS BOTTLE ACCUMULATING TABLES, MACHINES KNOWN IN THE TRADE AS AFTER-GASERS, AND BOTTLE CONVEYING MACHINES FOR USE IN CONJUNCTION WITH THE PROCESS OF BOTTLING.

Claims use since June 1, 1945.

Ser. No. 492,696. EKCO PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 5, 1945.



FOR KITCHEN AND HOUSEHOLD TOOLS AND UTENSILS—NAMELY, FOOD CHOPPERS, ICE PICKS, SCOOPS, CAN OPENERS, SPOONS, TURNERS, PEELING AND CORING TOOLS, EGG BEATERS, STRAINERS, CULINARY FORKS, KNIFE SHARPENERS, VEGETABLE MASHERS, DOUGH BLENDERS, PLATE SCRAPERS, LADLES, FOOD SERVERS, SPATULAS, KNIVES, BASE METAL TABLE FLATWARE, AND THE LIKE.

Claims use since Sept. 1, 1944, on knives; since May 1, 1945, on table flatware; and since Nov. 1, 1944, on the remaining goods.

Ser. No. 495,028. HARVEY MANUFACTURING COMPANY, Racine, Wis. Filed Jan. 19, 1946.

KERN-O-LIZER

FOR CORN SHELLERS FOR FEED.
Claims use since May 15, 1945.

Ser. No. 497,791. GLEASON WORKS, Rochester, N. Y. Filed Mar. 7, 1946.

CONIFLEX

FOR GEARS.
Claims use since Feb. 26, 1946.

Ser. No. 497,850. HENRY DISSTON & SONS, INCORPORATED. Tacony, Philadelphia, Pa. Filed Mar. 8, 1946.

GOLD MEDAL

FOR FILES AND RASPS.
Claims use since January 1916.

Ser. No. 498,104. AMERICAN SWISS FILE & TOOL COMPANY, Elizabeth, N. J. Filed Mar. 13, 1946.

AMSWISS

FOR FILES.
Claims use since Nov. 8, 1945.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 487,829. ELECTRONIC MECHANICAL PRODUCTS CO., Atlantic City, N. J. Filed Aug. 31, 1945.

empco

No claim is made to the skeletal representation of parts of an electronic tube apart from the mark.

FOR ELECTRO-MECHANICAL INSTRUMENT AND PARTS OF SUCH INSTRUMENT FOR THE INTEGRATION OF PRESELECTED QUANTITIES OF LIGHT AND RADIANT ENERGY AND FOR THE AUTOMATIC CONTROL OF TIME IN THE EXPOSURE TO EFFECT THE SELECTED QUANTITY CUMULATIVELY.

Claims use since Aug. 15, 1945.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 502,293. FRANK R. HENDRICKS, Puyallup, Wash. Filed May 17, 1946.

Paramount

FOR VENETIAN BLINDS.
Claims use since Jan. 1, 1939.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 495,433. AMERICAN METAL PRODUCTS COMPANY, Bridgeport, Conn. Filed Jan. 26, 1946.

HEXOLITE

FOR PYROPHORIC CIGAR AND CIGARETTE LIGHTERS.
Claims use since Jan. 25, 1946.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser No. 491,518. SIMPLEX PRODUCTS CORPORATION, Cleveland, Ohio. Filed Nov. 13, 1945.

SIMPLEX

FOR MACHINERY SHAFT SEALS.
Claims use since Jan. 5, 1942.

Ser. No. 494,439. THE GATES RUBBER COMPANY, Denver, Colo. Filed Jan. 8, 1946.

GATES FLEXCORD

The surname "Gates" is disclaimed apart from the mark.

FOR POWER TRANSMISSION BELTS AND GARDEN HOSE.
Claims use since Jan. 1, 1934.

CLASS 37

PAPER AND STATIONERY

Ser. No. 483,385. RITE-RITE MFG. CO., Downers Grove, Ill. Filed May 15, 1945.

RITE-RITE

FOR MECHANICAL PENCILS, PENCIL LEADS, AND DRAFTING REFILLABLE AND DRAFTING MECHANICAL PENCILS.
Claims use since Mar. 5, 1921.

Ser. No. 488,817. JOSEPH M. KATZ, Pittsburgh, Pa. Filed Sept. 21, 1945.



Color is not claimed as a feature of the mark, and the lining is for shading only. The picture of the person shown is merely fanciful.

FOR STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES.
Claims use since Sept. 15, 1945.

Ser. No. 491,662. MARCALUS MANUFACTURING CO., INC., East Paterson, N. J. Filed Nov. 15, 1945.

·MARCAL·

FOR WAXED PAPER, AND DOCTOR ROLLS, THE LATTER GOODS BEING MADE OF NON-MEDICATED PAPER IN ROLL FORM.
Claims use since April 1939.

Ser. No. 494,429. DISTRIBUTORS RESEARCH CORPORATION, New York, N. Y. Filed Jan. 8, 1946.

GRAPHITON

FOR FOUNTAIN PENS.
Claims use since Jan. 2, 1946.

Ser. No. 494,944. STANDARD CAP AND SEAL CORPORATION, Brooklyn, N. Y. Filed Jan. 17, 1946.

PROTECOTE

FOR MOISTUREPROOFED SHEET MATERIAL, FOR PACKAGING PURPOSES.
Claims use since Dec. 21, 1945.

Ser. No. 495,643. GEO. A. WHITING PAPER COMPANY, Menasha, Wis. Filed Jan. 29, 1946.

Coat-of-Arms

FOR COVER PAPER.
Claims use since Jan. 5, 1946.

Ser. No. 495,647. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J. Filed Jan. 30, 1946.

"DIPLOMA"

FOR WOODEN LEAD PENCILS, MECHANICAL LEAD PENCILS, AND FOUNTAIN PENS.
Claims use since Aug. 6, 1937, on wooden lead pencils; and since Dec. 26, 1945, on mechanical lead pencils and fountain pens.

Ser. No. 495,713. WILSON JONES COMPANY, Chicago, Ill. Filed Jan. 30, 1946.

RUBY

FOR LOOSE LEAF BINDERS.
Claims use since Sept. 10, 1927.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 497,452. RAFAEL A. CANOVACA, New York, N. Y. Filed Mar. 1, 1946.

The Atomic Man

FOR EDUCATIONAL CARTOON DRAWINGS AND STRIPS PUBLISHED AT INTERVALS.
Claims use since Oct. 4, 1945.

Ser. No. 498,073. OLIVER INSTRUMENT COMPANY, Adrian, Mich. Filed Mar. 12, 1946.

Edges-On

FOR HOUSE ORGAN.
Claims use since Jan. 6, 1946.

Ser. No. 498,145. CHARLES NICHOLAS JOHNSTON, San Francisco, Berkeley, Palo Alto, and Oakland, Calif. Filed Mar. 13, 1946.



FOR PHOTOGRAPHS.
Claims use since Mar. 6, 1946.

CLASS 39

CLOTHING

Ser. No. 477,801. GUSTAVE G. GRAY, doing business as Manhattan Bath Robe Company, Montreal, Quebec, Canada. Filed Dec. 21, 1944.

Mabel Gray

The trade-mark consists of the facsimile signature of Mabel Gray whose consent to register is given.
FOR BATH ROBES, DRESSING GOWNS, HOUSE COATS, WOMEN'S AND CHILDREN'S NEGLIGEES, AND HOSTESS GOWNS OF EVERY DESCRIPTION.
Claims use since Feb. 1, 1943.

Ser. No. 487,306. STANLEY V. BOLAND, doing business as Boland Manufacturing Company, Chicago, Ill. Filed Aug. 20, 1945.

Crystalite

FOR SHOWER CAPS, BATHING CAPS, RAIN COATS, RAIN CAPES, SHAMPOO CAPES, HOUSEHOLD APRONS, CHILDREN'S BIBS, AND BABY PANTS.
Claims use since Apr. 6, 1945.

Ser. No. 488,975. S. ROSENBLOOM, INC., Baltimore, Md. Filed Sept. 25, 1945.

PICCADILLY

FOR DRESS SHIRTS, WORK SHIRTS, PAJAMAS, WOVEN UNDERWEAR, MIDDY BLOUSES, BLOUSES, AND ROMPERS, ALL FOR MEN AND BOYS.
Claims use since January 1911.

Ser. No. 489,153. SAMUEL B. TEDOFF, doing business as "Teddy Boy" Manufacturing Company, New York and Brooklyn, N. Y. Filed Sept. 28, 1945.



No claim is made to words "Boy" or "Manufacturing Company" apart from the mark. The picture of the boy is fanciful and the drawing is lined to indicate shading only.
FOR BOYS' SUITS; BOYS', GIRLS', AND MISSES' OVERALLS, SHORTS, SLACKS, SLACK SUITS, AND SUN SUITS.
Claims use since Jan. 4, 1930.

Ser. No. 492,084. PARKER SHOES LIMITED, Leicester, England. Filed Nov. 23, 1945.

BIRTHDAY

FOR BOOTS, SHOES, SLIPPERS MADE OF LEATHER, FABRIC, RUBBER, OR SYNTHETIC RESIN, OR OF COMBINATIONS OF SAID MATERIALS, STOCKINGS AND SOCKS.
Claims use since 1930.

Ser. No. 496,032. KING OF SLACKS, INC., New York, N. Y. Filed Feb. 5, 1946.



The word "Slacks" is disclaimed apart from the mark FOR SLACKS FOR WOMEN.
Claims use since June 16, 1943.

Ser. No. 496,935. STANLEY I. TRUSSEL, doing business as Maternicraft Dress Co., New York, N. Y. Filed Feb. 19, 1946.

Maternicraft

FOR MATERNITY DRESSES.
Claims use since Jan. 15, 1946.

Ser. No. 498,115. THE CLOTHES HORSE, INC., Washington, D. C. Filed Mar. 13, 1946.



THE CLOTHES HORSE

The word "Clothes" is disclaimed apart from the mark.
FOR WOMEN'S AND MISSES' DRESSES, SUITS, COATS, BLOUSES, SKIRTS, AND LINGERIE—NAMELY, SLIPS, PANTIES, NIGHTGOWNS, AND PAJAMAS.
Claims use since Nov. 1, 1941.

Ser. No. 498,947. TOWN SPORTWEAR OF BOSTON, INC., Boston, Mass. Filed Mar. 25, 1946.

TOWN CRIER

FOR WOMEN'S AND MISSES' JACKETS, SLACKS, SKIRTS, BLOUSES, AND DRESSES.
Claims use since Feb. 1, 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 485,790. MORRIS & YEOMANS LIMITED, Redditch, England. Filed July 13, 1945.

LIGHTHOUSE

FOR NEEDLES FOR SEWING BY HAND, HAT PINS, TOILET PINS, KNITTING PINS, SAFETY PINS, HAIR PINS, CROCHET HOOKS, AND NEEDLE CASES.
Claims use since Sept. 4, 1919.

Ser. No. 494,609. IVY PRODUCTS CO., New York, N. Y. Filed Jan. 11, 1946.

UPS

FOR HAIR PINS NOT MADE OF PRECIOUS METAL OR METALS.
Claims use since Jan. 2, 1946.

Ser. No. 494,960. ERNA EISEMANN, doing business as Pygmalion, Chicago, Ill. Filed Jan. 18, 1946.

Pygmalion

FOR MENDING OR SEWING KITS EQUIPPED WITH NEEDLES, SCISSORS, THIMBLE, AND YARN FOR SEWING; NEEDLE CASES HOLDING STITCH HOLDER, KNIT COUNT, AND NEEDLES FOR KNITTING AND CROCHETING WORK.
Claims use since August 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 480,950. FREEDMAN-ROEDELHEIM COMPANY, Philadelphia, Pa. Filed Mar. 15, 1945.

O'TLAIR

FOR FABRICS AND PIECE GOODS MADE OF SILK, COTTON, RAYON, WOOL, LINEN, AND MIXTURES THEREOF.
Claims use since Jun. 6, 1945.

Ser. No. 486,827. NORMAN TOPLISS, New York, N. Y. Filed Aug. 6, 1945.

Duroorest

The drawing is lined for shading purposes only.
FOR WINDOW CURTAINS.
Claims use since Jan. 12, 1945.

Ser. No. 492,549. DENISON MATTRESS FACTORY, Denison, Tex. Filed Dec. 3, 1945.

A DEN-MAT Product

Applicant disclaims the words "Mat" and "Product" apart from the mark. The drawing is lined to denote the circle of red color, with the lettering and a small line inside the edge of white.
FOR WINDOW CURTAINS, DRAPES, BEDSPREADS, MATTRESS PROTECTOR PADS, AND MATTRESS COVERS.
Claims use since Aug. 1, 1939.

Ser. No. 495,906. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed Feb. 2, 1946.

BELLWETHER

FOR PIECE GOODS OF COTTON, RAYON, WOOL, OR MIXTURES THEREOF.
Claims use since Jan. 5, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 501,402. NU-PRODUCTS, INC., Kansas City, Mo. Filed May 3, 1946.

Silent Nurse

FOR NURSING BOTTLE HOLDERS FOR BABY CRIBS.
Claims use since Apr. 10, 1946.

Ser. No. 501,992. LEADWAY STORES CORPORATION, Chicago, Ill. Filed May 13, 1946.

Sofpure

FOR SANITARY NAPKINS.
Claims use since July 12, 1944.

Ser. No. 502,674. WESTINGHOUSE ELECTRIC CORPORATION, Baltimore, Md. Filed May 23, 1946. Under section 5b of the act of 1905, as amended in 1920.

Westinghouse

FOR X-RAY APPARATUS USED BY PHYSICIANS AND SURGEONS FOR DIAGNOSTIC PURPOSES AND FOR X-RAY ACCESSORIES USED IN CONNECTION THEREWITH.
Claims use since Sept. 8, 1930.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 489,238. HARRY A. MUNDORFF, JR., doing business as Li'l Grape Company, Wilmington, Del. Filed Oct. 1, 1945.

Li'l Grape

No claim is made to the word "Grape" except as shown.
FOR GRAPE SODA.
Claims use since Sept. 21, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 483,231. MID-WEST POPCORN COMPANY, Omaha, Nebr. Filed May 11, 1945.

Blossom Time

FOR SALTED PREPARED POPCORN.
Claims use since December 1942.

Ser. No. 483,854. GRAY AND GRAY, Venice, Calif. Filed May 28, 1945.

NELLIE GRAY

The mark consists of the name of a Negro slave made famous in our history by a song written by B. R. Hanby.
FOR DILL PICKLES, BLACK PEPPER, FRENCH DRESSING, MAYONNAISE, SALAD DRESSING, THOUSAND ISLAND DRESSING, MUSTARD, VINEGAR, JELLIES, CRUSHED PINEAPPLE, PEANUT BUTTER, MARMALADE, HORSERADISH, SWEET RELISH CONSISTING OF CUCUMBER, CAULIFLOWER, SUGAR, VINEGAR, SPICES, AND ALUM; CHOCOLATE SYRUP AND IMITATION MAPLE SYRUP FOR FOOD PURPOSES; AND BUTTERSCOTCH, MARSHMALLOW AND CARAMEL SYRUPS FOR FOOD PURPOSES.
Claims use since May 5, 1945.

Ser. No. 488,136. WINTER GARDEN CITRUS PRODUCTS CO-OPERATIVE, Winter Garden, Fla. Filed Sept. 7, 1945.

ROYAL ENTERTAINER

FOR CANNED CITRUS JUICES AND TOMATO JUICE.
Claims use since July 28, 1945.

Ser. No. 489,098. BOOTH FISHERIES CORPORATION, Chicago, Ill. Filed Sept. 28, 1945. Under section 5b of the act of 1905 as amended in 1920 as to the word "Booth."

FAMOUS BOOTH FOODS

Applicant is the owner of Reg. Nos. 50,030, 119,643, and 370,697; also 415,183 (10-year proviso). The drawing is lined for the color red. The words "Frozen Foods" are disclaimed apart from the mark.
FOR FROZEN FRESH VEGETABLES; FROZEN FRESH FRUITS—NAMELY, PEACHES, APRICOTS, CHERRIES, APPLES, PINEAPPLE, APPLESAUCE, PLUMS, PRUNE PLUMS, NECTARINES, MIXED FRUIT, GRAPEFRUIT, ORANGES, GRAPEFRUIT SEGMENTS, CITRUS JUICES, AND COCOANUT; FROZEN FRESH BERRIES; DRESSED, FROZEN, AND CANNED POULTRY; FROZEN, CANNED, SALTED, FRESH, PICKLED AND SMOKED SEA FOOD—NAMELY, FISH AND SHELL FISH.
Claims use since September 1942; and since 1850 on the word "Booth" on frozen, canned, salted fresh, pickled, and smoked seafood.

Ser. No. 489,664. GIBBS & COMPANY, INCORPORATED, Baltimore, Md. Filed Oct. 9, 1945.

POPULAR

FOR CANNED VEGETABLES.
Claims use since Oct. 1, 1882.

Ser. No. 490,843. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed Oct. 31, 1945.

mc BANQUET TEA PAKS

The words "Tea" and "Paks" are claimed only in the association shown.
FOR TEA.
Claims use since Oct. 19, 1945.

Ser. No. 495,898. J. LYONS & COMPANY LIMITED, London, England. Filed Feb. 2, 1946.

BEV

FOR COFFEE ESSENCE AND COFFEE AND CHICORY ESSENCE FOR FOOD PURPOSES.
Claims use since Mar. 21, 1942.

Ser. No. 497,247. KASCO MILLS, INC., Toledo, Ohio. Filed Feb. 26, 1946.

KASCO

GRO CALF

The word "Calf" and the representation of a calf are disclaimed apart from the mark.
FOR CALF FEED.
Claims use since Dec. 12, 1945.

Ser. No. 497,839. CARROLL M. BERNDT, doing business as C. M. Berndt Company, Baltimore, Md. Filed Mar. 8, 1946.



Applicant is the owner of registration 88,832, Oct. 29, 1912 (renewed). The word "Maté" is disclaimed apart from the other features of the mark.
FOR PARAGUAYAN TEA (ILEX PARAGUAYENSIS).
Claims use since Jan. 1, 1911.

Ser. No. 498,798. ROPER BROS. INC., Winter Garden, Fla. Filed Mar. 22, 1946.

BOSS

FOR FRESH CITRUS FRUITS.
Claims use since 1917.

Ser. No. 501,305. THE BEST FOODS, INC., New York, N. Y. Filed May 2, 1946.

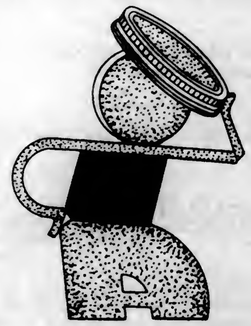


FOR CEREAL FOODS—NAMELY, WHEAT FLAKES.
Claims use since the spring of 1908 as to the words "Sunny Jim"; and since January 1935 as to the mark presented.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 456,503. THE ARIDOR COMPANY, Chicago, Ill. Filed Oct. 29, 1942.



Applicant is the owner of Reg. No. 378,995.
FOR CLOSURES FOR CONTAINERS.
Claims use since Mar. 1, 1936.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 27, 1946

423,203. HYDRAULIC BRAKE FLUID, RADIATOR FLUSH, RADIATOR SOLDER—NAMELY, A FLUID FOR USE IN AUTOMOBILE RADIATORS TO STOP LEAKS, RADIATOR STOP LEAK, AND ANTI-FREEZE. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed March 27, 19447. Serial No. 468,725. PUBLISHED MAY 21, 1946. Class 6.

423,204. TOYS—NAMELY, TOY TRUCKS, WAGONS, WHEELBARROWS, AUTOMOBILES, ARMY TANKS, HOUSES, LAWN MOWERS, RAKES, AND SHOVELS. RAY DISTRIBUTING COMPANY, Glen Falls, N. Y.
Filed June 27, 1944. Serial No. 471,714. PUBLISHED JUNE 4, 1946. Class 22.

423,205. MEN'S AND BOYS' UNDERWEAR. SIMON BRENNER, Wooster, Ohio.
Filed July 7, 1944. Serial No. 471,968. PUBLISHED MAY 7, 1946. Class 39.

423,206. MOTION PICTURE CAMERAS AND PARTS THEREFOR. FRANKLIN PHOTOGRAPHIC INDUSTRIES, Chicago, Ill.
Filed August 25, 1944. Serial No. 473,599. PUBLISHED JUNE 4, 1946. Class 26.

423,207. PARIS WHITE. THE TAINTOR COMPANY, New York, N. Y.
Filed December 27, 1944. Serial No. 477,985. PUBLISHED MAY 28, 1946. Class 16.

423,208. PARIS WHITE. THE TAINTOR COMPANY, New York, N. Y.
Filed December 27, 1944. Serial No. 477,986. PUBLISHED MAY 28, 1946. Class 16.

423,209. BLANK TICKETS TO BE FILLED IN FOR MERCHANDISING SYSTEMS. HALL BROTHERS, INCORPORATED, Kansas City, Mo.
Filed January 1, 1945. Serial No. 478,123. PUBLISHED JUNE 4, 1946. Class 37.

423,210. PERFUMES. BABETTE AMY FOSTER, New York, N. Y.
Filed January 4, 1945. Serial No. 478,211. PUBLISHED MAY 28, 1946. Class 6.

423,211. ARCH SUPPORTS. THE SCHOLL MFG. CO., INC., Chicago, Ill.
Filed January 6, 1945. Serial No. 478,356. PUBLISHED MARCH 20, 1945. Class 44.

423,212. STOCK STALLS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 7, 1945. Serial No. 479,530. PUBLISHED JUNE 4, 1946. Class 12.

423,213. CHEMICAL ODORANT TO BE ADDED TO NATURAL GAS, LIQUEFIED PETROLEUM GAS AND OTHER COMBUSTIBLE GASES TO WARN THE CONSUMER OF LEAKS IN GAS LINES, COOKING AND HEATING APPLIANCES, ETC. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed February 19, 1945. Serial No. 479,986. PUBLISHED MAY 28, 1946. Class 6.

423,214. WOMEN'S APPAREL CONSISTING OF DRESSES, PLAYSUITS, NEGLIGEES, BLOUSES, SLACKS, SLACK SUITS AND CHILDREN'S DRESSES. FRANCES SACHAR, doing business as Rextel Company, New York, N. Y.
Filed February 19, 1945. Serial No. 479,989. PUBLISHED MAY 14, 1946. Class 39.

423,215. WATCHES AND WATCH MOVEMENTS. TEMPLE WATCH COMPANY, New York, N. Y.
Filed March 22, 1945. Serial No. 481,195. PUBLISHED MAY 28, 1946. Class 27.

423,216. PERFUMES. BONWIT TELLER, INC., New York, N. Y.
Filed March 24, 1945. Serial No. 481,264. PUBLISHED MAY 28, 1946. Class 6.

423,217. LADIES' AND MISSES' DRESSES, SPORTSWEAR—NAMELY, SLACKS, BLOUSES, AND JACKETS. FUTURE FASHIONS, INC., New York, N. Y.
Filed March 24, 1945. Serial No. 481,281. PUBLISHED MAY 7, 1946. Class 39.

423,218. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. MILIUS SHOE COMPANY, St. Louis, Mo.
Filed March 29, 1945. Serial No. 481,488. PUBLISHED JUNE 4, 1946. Class 39.

423,219. METAL WINDOWS. UNIVERSAL CORPORATION, Dallas, Tex.
Filed Apr. 4, 1945. Serial No. 481,726. PUBLISHED JUNE 4, 1946. Class 12.

423,220. MISSES' AND LADIES' BLOUSES. DONNA LOUISE, INC., Boston, Mass.
Filed April 18, 1945. Serial No. 482,293. PUBLISHED MAY 21, 1946. Class 39.

423,221. ORALLY ACTIVE ESTROGENIC PLACENTAL HORMONES AND VITAMIN B COMPLEX IN DOSAGE FORMS. AYERST, MCKENNA & HARRISON LIMITED, New York, N. Y.
Filed April 26, 1945. Serial No. 482,607. PUBLISHED MAY 14, 1946. Class 6.

423,222. PREPARATION FOR THE TREATMENT OF SCALP IRRITATIONS AND SCALP ITCHING. KEYSTONE LABORATORIES, INC., Memphis, Tenn.
Filed May 2, 1945. Serial No. 482,879. PUBLISHED MAY 21, 1946. Class 6.

423,223. MEN'S AND BOYS' TOPCOATS, OVERCOATS, SPORTSCOATS, AND TROUSERS. SIX LITTLE TAILORS CO., Boston, Mass.
Filed May 30, 1945. Serial No. 483,992. PUBLISHED MAY 14, 1946. Class 39.

423,224. PERFUMES AND TOILET WATERS. ETABLISSEMENTS RIGAUD, INC., New York, N. Y.
Filed June 5, 1945. Serial No. 484,167. PUBLISHED MAY 21, 1946. Class 6.

423,225. POULTRY LOUSE KILLING OINTMENT. THE PORMAC CO., Bowling Green, Ky.
Filed June 27, 1945. Serial No. 485,096. PUBLISHED MAY 28, 1946. Class 6.

423,226. ELECTRICALLY OPERATED APPARATUS FOR MEASURING AND INDICATING THE CONCENTRATION OF CLEANING SOLUTIONS USED IN MECHANICAL WASHING EQUIPMENT, ETC. OAKITE PRODUCTS, INC., New York, N. Y.
Filed June 29, 1945. Serial No. 485,233. PUBLISHED JUNE 4, 1946. Class 26.

423,227. BRACKETS FOR SUPPORTING INDIVIDUAL, OR A PLURALITY OF, CYLINDERS OF FIRE EXTINGUISHING MEDIUM. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J.
Filed June 30, 1945. Serial No. 485,284. PUBLISHED JUNE 4, 1946. Class 13.

423,228. LADIES', MISSES', AND CHILDREN'S FUR AND FUR TRIMMED COATS, HATS, JACKETS, MUFFS, NECKPIECES, AND SCARVES. BURT'S, INC., Cleveland, Ohio.
Filed July 2, 1945. Serial No. 485,325. PUBLISHED JUNE 4, 1946. Class 39.

423,229. THERMOSTATICALLY CONTROLLED REGULATING APPARATUS FOR CONTROLLING AND REGULATING THE OPERATION OF GAS OR OTHER FURNACES. THE COLEMAN COMPANY, INC., Wichita, Kans.
Filed July 2, 1945. Serial No. 485,328. PUBLISHED OCTOBER 23, 1945. Class 26.

423,230. AIR CONDITIONERS OF THE UNIT COOLER TYPE, HAVING A CASING WITH LOUVERS AND CONTAINING A MOTOR, ETC. F. JADEN MANUFACTURING CO. INC., Hastings, Nebr.
Filed July 6, 1945. Serial No. 485,508. PUBLISHED JUNE 4, 1946. Class 34.

423,231. HIGH SPEED STEEL IN THE FORM OF BARS, RODS, BLOCKS, AND DISCS. FIRTH STERLING STEEL COMPANY, McKeesport, Pa.
Filed July 13, 1945. Serial No. 485,769. PUBLISHED MAY 21, 1946. Class 14.

423,232. INSULATION—NAMELY, SHEET INSULATION, LAMINATED AND UNLAMINATED, COATED AND UNCOATED, FORMED OF KAPOK AND MIXTURES OF KAPOK AND OTHER VEGETABLE, ANIMAL, MINERAL AND SYNTHETIC FIBERS, AND USED FOR SOUND AND THERMAL INSULATION IN CONTAINERS, BUILDINGS, ROOMS, AND VEHICLES FOR AIR, LAND, AND MARINE TRAVEL. RUDOLF F. HLAVATY, doing business as Hlavaty Insulations, Cicero, Ill.
Filed July 13, 1945. Serial No. 485,771. PUBLISHED NOVEMBER 6, 1945. Class 12.

423,233. DEODORANT POWDER, DUSTING POWDER, FACE POWDER, TALCUM POWDER, SACHETS—NAMELY, PERFUMED POWDER, ETC. THE J. R. WATKINS COMPANY, Winona, Minn.
Filed August 6, 1945. Serial No. 486,837. PUBLISHED MAY 28, 1946. Class 6.

423,234. MEN'S DRESS AND SPORT SHIRTS. PENNSHIRE SHIRT COMPANY, New York, N. Y.
Filed August 7, 1945. Serial No. 486,867. PUBLISHED MAY 14, 1946. Class 39.

423,235. SOAPS. RICHARD HUDNUT, New York, N. Y.
Filed August 31, 1945. Serial No. 487,839. PUBLISHED JUNE 4, 1946. Class 4.

423,236. CHILDREN'S DRESSES. THE MAYER-NOCK COMPANY, Philadelphia, Pa.
Filed August 31, 1945. Serial No. 487,852. PUBLISHED MAY 28, 1946. Class 39.

423,237. CLEANING SOLUTION FOR DENTURES AND BRIDGE WORK. RALPH L. LENHART, New York, N. Y.
Filed September 13, 1945. Serial No. 488,410. PUBLISHED JUNE 4, 1946. Class 4.

423,238. SHAMPOO WITH OIL, A MEDICINAL PREPARATION FOR TREATING COLDS, A DEODORANT, AN ALKALINE LAXATIVE AND ANODYNE CAPSULES. CYETON PRODUCTS, Los Angeles, Calif.
Filed September 15, 1945. Serial No. 488,515. PUBLISHED MAY 21, 1946. Class 6.

423,239. TOOTH POWDER. ELIZABETH VILLARREAL, Chicago, Ill.
Filed September 17, 1945. Serial No. 488,629. PUBLISHED MAY 21, 1946. Class 6.

423,240. MEDICINAL COMPOUNDS ADAPTED FOR THE RELIEF OF MINOR ACHES AND PAINS. ARTHUR SCHMOER, doing business as Neo-Neuro Company, New York, N. Y.
Filed September 18, 1945. Serial No. 488,671. PUBLISHED MAY 21, 1946. Class 6.

423,241. OVENS FOR BAKING, DRYING, CURING OR OTHERWISE HEAT-TREATING WOOD, METALS, CHEMICALS, LACQUERED OR PAINTED OBJECTS, FOOD, CERAMICS, LEATHER, PAPER PRODUCTS, ETC. J. O. ROSS ENGINEERING CORPORATION, New York, N. Y.
Filed September 25, 1945. Serial No. 488,976. PUBLISHED JUNE 4, 1946. Class 34.

423,242. ASTRINGENT AND ACIDULANT FOR USE IN THE TREATMENT OF COCCIDIOSIS IN POULTRY. N. N. DURHAM, doing business as Durham's Prescription Pharmacy and Durham's RX Pharmacy, Comanche, Tex.
Filed September 26, 1945. Serial No. 488,994. PUBLISHED MAY 21, 1946. Class 6.

423,243. PRINTING AND WRITING PAPER AND ENVELOPES. BERMAN PAPER CORPORATION, doing business as Harlem Card & Paper Company, New York, N. Y.
Filed October 2, 1945. Serial No. 489,252. PUBLISHED JUNE 4, 1946. Class 37.

423,244. MEDICATED SHAVING CREAM. NOVELERA PRODUCTS, INC., Chicago, Ill.
Filed October 3, 1945. Serial No. 489,344. PUBLISHED MAY 28, 1946. Class 4.

423,245. TURPENTINE. SOUTH TEXAS COTTON OIL COMPANY, Houston, Tex.
Filed October 8, 1945. Serial No. 489,617. PUBLISHED MAY 28, 1946. Class 16.

423,246. PERFUMES AND TOILET WATERS FOR MEN. PARFUM L'ORLE, INC., New York, N. Y.
Filed October 10, 1945. Serial No. 489,757. PUBLISHED MAY 21, 1946. Class 6.

423,247. CLAY SOLD IN POWDERED FORM TO THE TRADE TO BE MIXED BY THE TRADE AND APPLIED AS A COATING FOR PAPER. MOORE & MUNGER, New York, N. Y.
Filed October 13, 1946. Serial No. 489,917. PUBLISHED JUNE 4, 1946. Class 1.

423,248. ABRASIVE GRITS AND GRINDING WHEELS AND GRINDING DISKS. CONNECTICUT RESEARCH FOUNDATION, Stratford, Conn.
Filed October 15, 1945. Serial No. 489,942. PUBLISHED MAY 28, 1946. Class 4.

423,249. SOAPS AND CLEANSING COMPOUNDS FOR GENERAL USE. HAROLD M. REDMAN, Pontiac, Mich.
Filed October 15, 1945. Serial No. 489,987. PUBLISHED JUNE 4, 1946. Class 4.

423,250. WAX CLEANER AND POLISH FOR FLOORS, WOODWORK, AND FURNITURE. TWIN CITY SHELLAC CO. INC., Brooklyn, N. Y.
Filed October 18, 1945. Serial No. 490,152. PUBLISHED MAY 28, 1946. Class 16.

423,251. LENS CLEANING FLUID. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y.
Filed October 19, 1945. Serial No. 490,221. PUBLISHED MAY 21, 1946. Class 4.

423,252. COAL, COKE, PETROLEUM COKE, FUEL BRIQUETTES, AND COAL BREEZE. NATIONAL COAL PRODUCTS COMPANY, St. Louis, Mo.
Filed October 20, 1945. Serial No. 490,254. PUBLISHED JUNE 4, 1946. Class 1.

423,253. WOMEN'S, MISSES', AND GIRLS' DRESSES, SUITS, COATS, AND BLOUSES. HERMAN BARON, New York, N. Y.
Filed October 24, 1945. Serial No. 490,414. PUBLISHED JUNE 4, 1946. Class 39.

423,254. WEATHER AND FLAME-RESISTIVE, ADHESIVE LIQUID, ASPHALTIC-ASBESTOS, PAINT-LIKE COATINGS FOR STRUCTURAL AND OTHER SURFACES. CARL O. WILLENBERG, doing business as Royal Products Company, Los Angeles, Calif.
Filed October 27, 1945. Serial No. 490,614. PUBLISHED MAY 28, 1946. Class 16.

423,255. WAVING AND NEUTRALIZING SOLUTIONS. BELFAIRE COSMETICS, INC., New York, N. Y.
Filed October 29, 1945. Serial No. 490,626. PUBLISHED MAY 21, 1946. Class 6.

423,256. SHOE POLISH AND SHOE DRESSING. WILLIAM T. VASSILATOS, doing business as Anchor Shoe Polish Mfg. Co., Chicago, Ill.
Filed October 30, 1945. Serial No. 490,773. PUBLISHED MAY 28, 1946. Class 4.

423,257. DIFFERENTIAL EXPANSION THERMALLY ACTUATED FLUID BURNER CONTROL APPARATUS AND PARTS THEREOF, THE CONTROL TO BE OF A HEAT SOURCE TO ACT UPON FLUID. THE BURKAY CO., Toledo, Ohio.
Filed October 31, 1945. Serial No. 490,786. PUBLISHED JUNE 4, 1946. Class 34.

423,258. SHAVING CREAM, FACIAL AND BATH SOAPS. JOHN FREDERICS, INC., New York, N. Y.
Filed October 31, 1945. Serial No. 490,806. PUBLISHED MAY 14, 1946. Class 4.

423,259. ANTISEPTIC OINTMENT. JUDSON HOLMES SENCINDIVER, doing business as Judson Laboratories, Cockeysville, Md.
Filed November 1, 1945. Serial No. 490,907. PUBLISHED MAY 28, 1946. Class 6.

423,260. DRY, PASTE, AND READY MIXED PAINTS, READY MIXED STAINS, AND PAINT ENAMELS. PACKARD PAINT & VARNISH CO., Boston, Mass.
Filed November 2, 1945. Serial No. 490,961. PUBLISHED MAY 28, 1946. Class 16.

423,261. DRY PULVERULENT DETERGENTS. ELIZABETH WESTON PARKER, Washington, D. C.
Filed November 2, 1945. Serial No. 490,962. PUBLISHED MAY 14, 1946. Class 4.

423,262. WASHING SOAP, TOILET SOAP, SCENTED SOAP, BATH SOAP, SHAVING SOAP, LIQUID SOAP AND SOAP POWDER. CRISTOBAL BALENCIAGA EIZAGUIRRE, San Sebastian, Spain.
Filed November 5, 1945. Serial No. 491,073. PUBLISHED MAY 14, 1946. Class 4.

423,263. MISSES' AND WOMEN'S LINGERIE—NAMELY, LACE TRIMMED NIGHTGOWNS AND SLIPS. JULIANA UNDERWEAR CO., New York, N. Y.
Filed November 5, 1945. Serial No. 491,098. PUBLISHED MAY 7, 1946. Class 39.

423,264. PARASITICIDES—NAMELY, INSECTICIDES AND FUNGICIDES; SPRAY ADJUVANTS, HERBICIDES, AND COMPOUNDS WHICH INFLUENCE SPECIFIC PHYSIOLOGICAL PROCESSES IN PLANTS. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif.
Filed November 6, 1945. Serial No. 491,151. PUBLISHED MAY 21, 1946. Class 6.

423,265. TOILET WATER, BODY POWDER, FACE POWDER, HAND LOTION, FACE CREAMS, BATH SALTS, ETC. FRANZ KOENIGSBERGER, doing business as Oréon Parfumeur, New York, N. Y.
Filed November 6, 1945. Serial No. 491,163. PUBLISHED MAY 21, 1946. Class 6.

423,266. LIQUID PREPARATION TO BE TAKEN INTERNALLY FOR THE TREATMENT OF COLDS AND COUGHS DUE TO COLDS. BOYD J. PIERCE, doing business as Pierce Products, High Point, N. C.
Filed November 7, 1945. Serial No. 491,214. PUBLISHED MAY 21, 1946. Class 6.

423,267. ENVELOPES, ENVELOPE WINDOWS, PAPERY MATERIAL FOR WRITING, DRAWING, PRINTING, AND DECORATIVE PURPOSES, ETC. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed November 8, 1945. Serial No. 491,231. PUBLISHED JUNE 4, 1946. Class 37.

423,268. DRY CLEANERS, RUG SHAMPOO CLEANERS, WINDOW CLEANERS, METAL POLISHES AND CLEANERS, VENETIAN BLIND CLEANERS, AND SHAVING CREAM. DURITE CORPORATION, Detroit, Mich.
Filed November 8, 1945. Serial No. 491,247. PUBLISHED JUNE 4, 1946. Class 4.

423,269. SYNTHETIC DETERGENT FOR GENERAL CLEANING PURPOSES. SPENCER D. EMBREE, doing business as CEB Manufacturing Company, Elizabeth, N. J.
Filed November 8, 1945. Serial No. 491,250. PUBLISHED JUNE 4, 1946. Class 4.

423,270. PIPES. LANE TOBACCO, LTD., New York, N. Y.
Filed November 8, 1945. Serial No. 491,268. PUBLISHED JUNE 4, 1946. Class 8.

423,271. SMOKING PIPES. LANE TOBACCO, LTD., New York, N. Y.
Filed November 8, 1945. Serial No. 491,271. PUBLISHED JUNE 4, 1946. Class 8.

423,272. MEN'S AND BOYS' OVERALLS, SUITS, OVERCOATS, TOPCOATS, AND SPORTSWEAR—NAMELY, COATS AND SWEATERS. LEISURE FIT MANUFACTURING COMPANY, New York, N. Y., assignor to Harbor Hills Sportswear, Inc., New York, N. Y., a corporation of New York.
Filed November 10, 1945. Serial No. 491,415. PUBLISHED MAY 21, 1946. Class 39.

423,273. WALL, TILE, AND GLASS CLEANER. STRAND RENEAU CO., Lynwood, Calif.
Filed November 10, 1945. Serial No. 491,436. PUBLISHED MAY 28, 1946. Class 4.

423,274. LIQUID SOLVENT AND CLEANER FOR REMOVING TAR, WAX, OIL, AND GREASE FROM METAL, FABRIC, AND OTHER SURFACES. GENERAL SOLVENTS SALES COMPANY, INC., Rochester, N. Y.
Filed November 13, 1945. Serial No. 491,473. PUBLISHED JUNE 4, 1946. Class 4.

423,275. RAW THERMOSETTING RESINS IN LIQUID OR SOLID FORM. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed November 14, 1945. Serial No. 491,562. PUBLISHED JUNE 4, 1946. Class 1.

423,276. SHAMPOO, PERFUME, TOILET WATER, HAND LOTION, FACE CREAM, FACE POWDER, BODY POWDER, BATH CRYSTALS, ETC. FRANZ KOENIGSBERGER, doing business as Kinghill Laboratories, New York, N. Y.
Filed November 16, 1945. Serial No. 491,718. PUBLISHED MAY 21, 1946. Class 6.

423,277. HOSIERY. FREDERICK H. LASSITER, New York, N. Y.
Filed November 17, 1945. Serial No. 491,762. PUBLISHED JUNE 4, 1946. Class 39.

423,278. PAINTS SOLD IN DRY, PASTE, AND READY-MIXED FORMS. THE MASON PAINT COMPANY, Louisville, Ky.
Filed November 17, 1945. Serial No. 491,765. PUBLISHED MAY 28, 1946. Class 16.

423,279. PERFUMES AND TOILET WATERS. AVON PRODUCTS, INC., New York, N. Y.
Filed November 19, 1945. Serial No. 491,796. PUBLISHED MAY 28, 1946. Class 6.

423,280. COAL. HOLMES-DARST COAL CORPORATION, Knoxville, Tenn.
Filed November 19, 1945. Serial No. 491,832. PUBLISHED JUNE 4, 1946. Class 1.

423,281. LADIES', MISSES' AND CHILDREN'S PANTIES, STEP-INS, I. E., UNDERDRAWERS, VESTS, SLIPS, NIGHTGOWNS, CHEMISES, BLOOMERS, AND PAJAMAS. KRUMHOLZ & LICHTBLAU, doing business as Kel-Ray Knitting Mills, New York, N. Y.
Filed November 19, 1945. Serial No. 491,846. PUBLISHED JUNE 4, 1946. Class 39.

423,282. BUBBLE BATH PREPARATION. JULIUS V. MADSEN, doing business as Julius V. Madsen Co., Los Angeles, Calif.
Filed November 19, 1945. Serial No. 491,868. PUBLISHED MAY 28, 1946. Class 6.

423,283. MEN'S, WOMEN'S, BOYS', AND GIRLS' KNITTED OUTERWEAR—NAMELY, SWEATERS AND SWEATER SHIRTS. NEW YORK KNITTING MILLS, New York, N. Y.
Filed November 19, 1945. Serial No. 491,876. PUBLISHED MAY 7, 1946. Class 39.

423,284. HAIR TONIC. RIAH MANUFACTURING COMPANY, Kalamazoo, Mich.
Filed November 19, 1945. Serial No. 491,886. PUBLISHED MAY 28, 1946. Class 6.

423,285. VITAMIN TABLET USED AS A FOOD SUPPLEMENT FOR HUMAN CONSUMPTION. WM. T. THOMPSON, doing business as Wm. T. Thompson Co., Los Angeles, Calif.
Filed November 19, 1945. Serial No. 491,897. PUBLISHED MAY 28, 1946. Class 6.

423,286. OUTER SHIRTS. F. JACOBSON & SONS, INC., New York, N. Y.
Filed November 20, 1945. Serial No. 491,918. PUBLISHED MAY 21, 1946. Class 39.

423,287. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS. FRÉDÉRIC GEILLE, Seine, France.
Filed November 21, 1945. Serial No. 491,967. PUBLISHED MAY 21, 1946. Class 6.

423,288. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, AND FACE CREAMS. FRÉDÉRIC GEILLE, Seine, France.
Filed November 21, 1945. Serial No. 491,969. PUBLISHED MAY 21, 1946. Class 6.

423,289. PHARMACEUTICAL PREPARATION FOR USE IN THE TREATMENT OF GASTRIC ACIDITY. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 21, 1945. Serial No. 491,997. PUBLISHED MAY 21, 1946. Class 6.

423,290. LIPSTICKS, PERFUMES, TOILET WATER, CAKE MAKE-UP, FACE POWDER, DUSTING POWDER, TALCUM POWDER, ETC. LUSTRITE COSMETICS INC., New York, N. Y.
Filed January 9, 1946. Serial No. 492,014. PUBLISHED MAY 7, 1946. Class 6.

423,291. PERFUMES. PRINCE MATCHABELLI, INC., New York, N. Y.
Filed November 23, 1945. Serial No. 492,066. PUBLISHED MAY 21, 1946. Class 6.

423,292. WOMEN'S SLIPS. LOUIS HERMAN & COMPANY, New York, N. Y.
Filed November 30, 1945. Serial No. 492,440. PUBLISHED MAY 28, 1946. Class 39.

423,293. CHILDREN'S, GIRLS', AND WOMEN'S DRESSES. LA CROSSE GARMENT MFG. CO., La Crosse, Wis.
Filed November 30, 1945. Serial No. 492,444. PUBLISHED MAY 7, 1946. Class 39.

423,294. MEN'S, WOMEN'S, BOYS', AND GIRLS' LEATHER SNOW AND SKI JACKETS, SPORT COATS AND JACKETS. H. L. B. CORPORATION, New York, N. Y.
Filed December 1, 1945. Serial No. 492,494. PUBLISHED MAY 21, 1946. Class 39.

423,295. MEN'S AND BOYS' SLACKS, AND SLACK SUITS. MEL ROSS MFG. CO., Dallas, Tex.
Filed December 1, 1945. Serial No. 492,507. PUBLISHED JUNE 4, 1946. Class 39.

423,296. HOSIERY FOR MEN. RAGAN KNITTING COMPANY, INC., Thomasville, N. C.
Filed December 3, 1945. Serial No. 492,581. PUBLISHED MAY 7, 1946. Class 39.

423,297. LIQUID PREPARATION FOR THE TREATMENT OF COLIC AND FOR EXTERNAL APPLICATION TO THE HUMAN BODY FOR MINOR CUTS, ETC. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed December 3, 1945. Serial No. 492,604. PUBLISHED MAY 28, 1946. Class 6.

423,298. LIQUID PREPARATION FOR THE TREATMENT OF COLIC AND FOR EXTERNAL APPLICATION TO THE HUMAN BODY FOR MINOR CUTS, ETC. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed December 3, 1945. Serial No. 492,605. PUBLISHED MAY 28, 1946. Class 6.

423,299. DRY-CLEANING AND WATER-REPELLENT COMPOUND. DAIZER PRODUCTS CO., New York, N. Y.
Filed December 4, 1945. Serial No. 492,617. PUBLISHED MAY 14, 1946. Class 4.

423,300. MEN'S AND BOYS' DRESS AND SPORT SHIRTS. YALE FABRICS CORP., New York, N. Y.
Filed December 4, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,670. PUBLISHED MAY 7, 1946. Class 39.

423,301. LADIES', MISSES' AND JUNIORS' COATS AND SUITS. BAITCH & CASTALDI, INC., New York, N. Y.
Filed December 5, 1945. Serial No. 492,681. PUBLISHED JUNE 4, 1946. Class 39.

423,302. GRAPHITIC STEEL HAVING HIGH STRENGTH PROPERTIES. ALFRED BARUCH, doing business as Neptune Engineering Company, New York, N. Y.
Filed December 6, 1945. Serial No. 492,760. PUBLISHED MAY 21, 1946. Class 14.

423,303. MISSES' AND JUNIORS' DRESSES. ROBERTA GOWNS INC., New York, N. Y.
Filed December 6, 1945. Serial No. 492,792. PUBLISHED MAY 7, 1946. Class 39.

423,304. ONE-PIECE PAJAMAS, TWO-PIECE PAJAMAS AND LOUNGING GARMENTS. GENERAL SPORTWEAR CO., INC., Ellenville, N. Y.
Filed December 7, 1945. Serial No. 492,831. PUBLISHED MAY 28, 1946. Class 39.

423,305. LEAD OXIDES, MIXTURES OF LEAD OXIDES AND METALLIC LEAD WITH OR WITHOUT ADMIXTURE OF EXPANDERS FOR USE IN THE MANUFACTURE OF STORAGE BATTERIES. NATIONAL LEAD COMPANY, New York, N. Y.
Filed December 7, 1945. Serial No. 492,850. PUBLISHED MAY 28, 1946. Class 6.

423,306. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, SLIPS, PLAYSUITS, PINAFORES, AND BLOUSES. SHIRLEY FABRICS CORP., New York, N. Y.
Filed December 7, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,863. PUBLISHED MAY 28, 1946. Class 39.

423,307. LADIES', MISSES', AND GIRLS' DRESSES, APRONS, PLAYSUITS, PINAFORES, AND BLOUSES. SHIRLEY FABRICS CORP., New York, N. Y.
Filed December 7, 1945. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 492,864. PUBLISHED MAY 28, 1946. Class 39.

423,308. COAL STOKERS AND STRUCTURAL PARTS THEREOF. CHRYSLER CORPORATION, Highland Park, Mich.
Filed December 8, 1945. Serial No. 492,898. PUBLISHED JUNE 4, 1946. Class 34.

423,309. PYROPHORIC CIGARETTE AND CIGAR LIGHTERS OF THE POCKET TYPE. FLAME THROWER CO., Chicago, Ill.
Filed December 8, 1945. Serial No. 492,913. PUBLISHED JUNE 4, 1946. Class 34.

423,310. TIN PLATE. NATIONAL STEEL CORPORATION, Wilmington, Del., and Weirton, W. Va.
Filed December 8, 1945. Serial No. 492,944. PUBLISHED MAY 21, 1946. Class 14.

423,311. POLISH FOR LEATHER GOODS SUCH AS FOOTWEAR AND BAGGAGE. K. J. QUINN & CO. INC., Boston, Mass.
Filed December 8, 1945. Serial No. 492,953. PUBLISHED MAY 21, 1946. Class 4.

423,312. SNOW SUITS, JACKETS, COATS, SKI PANTS AND HATS, FOR BOYS, GIRLS, MEN, AND WOMEN. ROSS SPORTWEAR, INC., New York, N. Y.
Filed December 8, 1945. Serial No. 492,959. PUBLISHED JUNE 4, 1946. Class 39.

423,313. TREATED POLISHING CLOTHS. CALLAWAY MILLS, La Grange, Ga.
Filed December 11, 1945. Serial No. 493,039. PUBLISHED JUNE 4, 1946. Class 4.

423,314. BATHING SUITS. DUCHESS ROYAL, New York, N. Y.
Filed December 11, 1945. Serial No. 493,055. PUBLISHED JUNE 4, 1946. Class 39.

423,315. BATHING SUITS. DUCHESS ROYAL, New York, N. Y.
Filed December 11, 1945. Serial No. 493,056. PUBLISHED MAY 14, 1946. Class 39.

423,316. PERFUME. GEORGE W. BUTTON CO., doing business as Bouton, New York, N. Y.
Filed December 12, 1945. Serial No. 493,100. PUBLISHED MAY 21, 1946. Class 6.

423,317. DEODORANTS, PERSONAL AND ROOM. MARCEL LEDUC, Rochester, N. Y.
Filed December 12, 1945. Serial No. 493,133. PUBLISHED MAY 21, 1946. Class 6.

423,318. PAINT PIGMENTS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed December 13, 1945. Serial No. 493,173. PUBLISHED MAY 28, 1946. Class 16.

423,319. PAINT PIGMENTS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed December 13, 1945. Serial No. 493,174. PUBLISHED MAY 28, 1946. Class 16.

423,320. TOILET SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed December 14, 1945. Serial No. 493,251. PUBLISHED JUNE 4, 1946. Class 4.

423,321. HOSIERY. DURHAM HOSIERY MILLS, Durham, N. C.
Filed December 15, 1945. Serial No. 493,334. PUBLISHED MAY 7, 1946. Class 39.

423,322. LADIES' AND MISSES' SUITS AND DRESSES. SARANNE FIFTH AVENUE, New York, N. Y.
Filed December 15, 1945. Serial No. 493,402. PUBLISHED MAY 14, 1946. Class 39.

423,323. FURNITURE POLISH. WALTSADE MFG. CO., New York, N. Y.
Filed December 15, 1945. Serial No. 493,411. PUBLISHED MAY 28, 1946. Class 16.

423,324. LIPSTICK, ROUGE, FACE POWDER, FACIAL MAKE-UP, HAND LOTION, COLOGNE, BRILLIANTINE, SHAMPOO, AND PERFUME. CONSOLIDATED COSMETICS, Chicago, Ill.
Filed December 17, 1945. Serial No. 493,429. PUBLISHED MAY 21, 1946. Class 6.

423,325. INSTRUMENTS FOR ASSISTING THE HEARING OF THE DEAF. CECIL E. EAGLE, doing business as C. E. Eagle and Company, Hutchinson, Kans.
Filed December 17, 1945. Serial No. 493,436. PUBLISHED JUNE 4, 1946. Class 44.

423,326. MILK PAILS AND MILK CANS. SPIEGEL, INC., Chicago, Ill.
Filed December 17, 1945. Serial No. 493,464. PUBLISHED JUNE 4, 1946. Class 2.

423,327. EAU DE COLOGNE. IRRESISTIBLE, INC., New York, N. Y.
Filed December 18, 1945. Serial No. 493,489. PUBLISHED MAY 21, 1946. Class 6.

423,328. SOAP. LAUNDERETTE SOAP CORPORATION, New York, N. Y.
Filed December 18, 1945. Serial No. 493,499. PUBLISHED JUNE 4, 1946. Class 4.

423,329. POWDERED DETERGENT. O. D. CHEMICAL CORPORATION, New York, N. Y.
Filed December 18, 1945. Serial No. 493,506. PUBLISHED JUNE 4, 1946. Class 4.

423,330. DETERGENT—NAMELY, A SOAPLESS POWDER FOR GENERAL HOUSEHOLD WASHING AND CLEANING. RUMFORD CHEMICAL WORKS, Rumford, R. I.
Filed December 18, 1945. Serial No. 493,517. PUBLISHED MAY 28, 1946. Class 4.

423,331. CLOTHING—NAMELY, LADIES' AND MISSES' SLIPS; PAJAMAS; NIGHT GOWNS; GOWN AND ROBE ENSEMBLES; AND LOUNGING ROBES. DAVID A. SOMAN, doing business as Danax Company, New York, N. Y.
Filed December 18, 1945. Serial No. 493,519. PUBLISHED MAY 21, 1946. Class 39.

423,332. BABY PANTS. GOODYEAR RUBBER SUNDRIES INC., New Haven, Conn.
Filed December 19, 1945. Serial No. 493,546. PUBLISHED MAY 14, 1946. Class 39.

423,333. ANTIBACTERIAL AND ANALGESIC PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed December 19, 1945. Serial No. 493,571. PUBLISHED MAY 21, 1946. Class 6.

423,334. DEODORANT STICK. CARL A. FUTTER, Chicago, Ill.
Filed December 21, 1945. Serial No. 493,674. PUBLISHED MAY 21, 1946. Class 6.

423,335. DETERGENT COMPOUND DESIGNED TO REMOVE GREASY, FATTY, AND SAPONACEOUS RESIDUE. R. S. GHISELIN, Chicago, Ill., assignor to Glee Products Co., Chicago, Ill., a firm composed of Edwin W. Mayer, Jr., and Arthur G. Gabrielsen, Jr.
Filed December 21, 1945. Serial No. 493,678. PUBLISHED JUNE 4, 1946. Class 4.

423,336. MEN'S AND BOYS' WORK SHIRTS AND WORK PANTS. MILLER MANUFACTURING CO., INC., Joplin, Mo., and New York, N. Y.
Filed December 21, 1945. Serial No. 493,690. PUBLISHED MAY 14, 1946. Class 39.

423,337.. PERFUMES, TOILET WATERS, LIPSTICKS, ROUGES, FACE POWDER, TALCUM POWDER, LOTIONS FOR THE SKIN AND HAIR, AND BATH SALTS. BELCANO COMPANY, Jersey City, N. J.
Filed December 22, 1945. Serial No. 493,729. PUBLISHED MAY 28, 1946. Class 6.

423,338. PURGATIVES. C-Y LABORATORIES, INC., Memphis, Tenn., assignor to Consolidated Cosmetics, Chicago, Ill., a firm.
Filed December 22, 1945. Serial No. 493,740. PUBLISHED MAY 21, 1946. Class 6.

423,339. TROUSERS OF CORDUROY MATERIAL. GLENSHORE MANUFACTURING CO., Denver, Colo.
Filed December 22, 1945. Serial No. 493,760. PUBLISHED MAY 7, 1946. Class 39.

423,340. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, TOPPERS, AND COAT AND SUIT ENSEMBLES. HYGRADE COAT CO., INC., New York, N. Y.
Filed December 22, 1945. Serial No. 493,774. PUBLISHED MAY 21, 1946. Class 39.

423,341. CHILDREN'S AND WOMEN'S SNOW SUITS. RELIABLE SKI WEAR CORPORATION, Buffalo, N. Y.
Filed December 22, 1945. Serial No. 493,826. PUBLISHED MAY 14, 1946. Class 39.

423,342. LADIES' AND MISSES' SUITS, COATS, AND SPORT COATS MADE FROM GABARDINE. JIMMY WHELLAN SONS, INC., New York, N. Y.
Filed December 22, 1945. Serial No. 493,863. PUBLISHED MAY 21, 1946. Class 39.

423,343. STERILE AQUEOUS SOLUTION OF 1-HISTIDINE MONOHYDROCHLORIDE. HORTON & CONVERSE, Los Angeles, Calif.
Filed December 24, 1945. Serial No. 493,873. PUBLISHED MAY 21, 1946. Class 6.

423,344. MEN'S AND BOYS' SWEATERS. CAVENDISH KNITWEAR CORP., New York, N. Y.
Filed December 28, 1945. Serial No. 493,947. PUBLISHED MAY 14, 1946. Class 39.

423,345. RAW AND TREATED ANIMAL, VEGETABLE, AND MINERAL OILS FOR GENERAL INDUSTRIAL USE. DORWARD & SONS CO., San Francisco, Calif.
Filed December 28, 1945. Serial No. 493,949. PUBLISHED MAY 28, 1946. Class 6.

423,346. RAW AND TREATED ANIMAL, VEGETABLE, AND MINERAL OILS FOR GENERAL INDUSTRIAL USE. DORWARD & SONS CO., San Francisco, Calif.
Filed December 28, 1945. Serial No. 493,950. PUBLISHED MAY 28, 1946. Class 6.

423,347. PERFUMES, TOILET WATERS, LIPSTICKS, ROUGES, FACE POWDER, TALCUM POWDER, LOTIONS FOR THE SKIN AND HAIR, AND BATH SALTS. BELCANO COMPANY, Jersey City, N. J.
Filed December 29, 1945. Serial No. 494,010. PUBLISHED MAY 28, 1946. Class 6.

423,348. ANALGESIC, IN CAPSULE FORM, FOR RELIEF FROM DISCOMFORT OF MENSTRUAL PAINS. EDWARD J. MOORE SONS, INC., Long Island City, N. Y.
Filed December 29, 1945. Serial No. 494,102. PUBLISHED MAY 28, 1946. Class 6.

423,349. ARTICLES OF CLOTHING FOR MEN, WOMEN, CHILDREN, AND JUVENILES—NAMELY, JACKETS, COATS, SURCOATS, AND SPORT COATS. OLDIN-DENNIS, New York, N. Y.
Filed December 29, 1945. Serial No. 494,108. PUBLISHED MAY 21, 1946. Class 39.

423,350. PHOTOGRAPH DEVELOPING SOLUTIONS. GRANT PHOTO PRODUCTS, INC., New York, N. Y.
Filed January 3, 1946. Serial No. 494,214. PUBLISHED MAY 28, 1946. Class 6.

423,351. RAINCOATS AND RAIN CAPES FOR MEN, WOMEN, BOYS, AND GIRLS. LONDONTOWN MANUFACTURING CO., Baltimore, Md.
Filed January 5, 1946. Serial No. 494,343. PUBLISHED JUNE 4, 1946. Class 39.

423,352. PROCESSED OIL USED IN BLENDING MARINE ENGINE OIL AND ALSO IN MANUFACTURING RUBBER SUBSTITUTES. INDUSTRIAL OIL PRODUCTS CORPORATION, Los Angeles, Calif.
Filed January 23, 1946. Serial No. 495,236. PUBLISHED MAY 21, 1946. Class 6.

423,353. HOSIERY. FREDERIC H. LASSITER, New York, N. Y.
Filed January 24, 1946. Serial No. 495,298. PUBLISHED JUNE 4, 1946. Class 39.

423,354. TOILET PREPARATIONS, PERFUMERY, AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIPSTICKS, FACE POWDER, TOILET CREAMS, AND ROUGE. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,310. PUBLISHED MAY 21, 1946. Class 6.

423,355. TOILET PREPARATIONS, PERFUMERY AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIPSTICKS, FACE POWDER, TOILET CREAMS, AND ROUGE. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 24, 1946. Serial No. 495,313. PUBLISHED MAY 21, 1946. Class 6.

423,356. PERFUMES, TOILET WATERS, COLOGNES, LIPSTICKS, COLD CREAM, FACE POWDER, BATH POWDER, TALCUM POWDER, ETC. PARK & TILFORD, New York, N. Y.
Filed January 25, 1946. Serial No. 495,404. PUBLISHED MAY 28, 1946. Class 6.

423,357. FACE POWDER, FACE MAKEUP IN LIQUID FORM, CREAMS FOR THE HANDS AND FACE, SHAMPOOS, ETC. ASSOCIATED PRODUCTS, INC., Chicago, Ill.
Filed January 26, 1946. Serial No. 495,438. PUBLISHED MAY 28, 1946. Class 6.

423,358. PERFUMES AND TOILET WATER. ROBERTS CREATIONS COMPANY, New York, N. Y.
Filed January 26, 1946. Serial No. 495,509. PUBLISHED MAY 21, 1946. Class 6.

423,359. MEDICINAL PREPARATION RECOMMENDED FOR THE TREATMENT OF GOUT AND OTHER RHEUMATIC AFFLICTIONS. SCHERING CORPORATION, Bloomfield, N. J.
Filed January 29, 1946. Serial No. 495,630. PUBLISHED MAY 21, 1946. Class 6.

423,360. PERFUME, TOILET WATER, EAU DE COLOGNE, AND AFTER SHAVING LOTION. JOHN PETER WILDE, doing business as Parfums D'Artimon, New York, N. Y.
Filed January 29, 1946. Serial No. 495,644. PUBLISHED MAY 21, 1946. Class 6.

423,361. PERFUMES AND TOILET WATER. MAURICE BABANI, New York, N. Y.
Filed January 30, 1946. Serial No. 495,650. PUBLISHED MAY 21, 1946. Class 6.

423,362. PREPARATION USED IN THE TREATMENT OF ATHLETE'S FOOT. A. E. ILLES COMPANY, Dallas, Tex.
Filed January 31, 1946. Serial No. 495,743. PUBLISHED MAY 21, 1946. Class 6.

423,363. TOY GUNS AND TOY PISTOLS. DAISY MANUFACTURING COMPANY, Plymouth, Mich.
Filed February 5, 1946. Serial No. 496,014. PUBLISHED JUNE 4, 1946. Class 22.

423,364. LIPSTICKS. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed February 5, 1946. Serial No. 496,033. PUBLISHED MAY 28, 1946. Class 6.

423,365. TROCHES CONTAINING PENICILLIN. WYETH INCORPORATED, Philadelphia, Pa.
Filed February 5, 1946. Serial No. 496,057. PUBLISHED MAY 21, 1946. Class 6.

423,366. COSMETIC PREPARATIONS—NAMELY, POWDER, ROUGE, LIPSTICK, GREASE PAINT, HAIR OIL, SHAMPOO POWDER AND SHAMPOO PREPARATIONS, ETC. MARY DUNHILL LIMITED, London, England.
Filed February 8, 1946. Serial No. 496,214. PUBLISHED MAY 28, 1946. Class 6.

423,367. FLUXES EMPLOYED IN WELDING, BRAZING, SOLDERING, AND HARD SURFACING OPERATIONS. EUTECTIC WELDING ALLOYS CORPORATION, New York, N. Y.
Filed February 8, 1946. Serial No. 496,227. PUBLISHED MAY 28, 1946. Class 6.

423,368. PERFUME, SKIN PERFUME, COLOGNE, AND BATH OIL. TUVACHÉ CO., New York, N. Y.
Filed February 8, 1946. Serial No. 496,285. PUBLISHED MAY 28, 1946. Class 6.

423,369. PRE-WAX CLEANER FOR AUTOMOBILE BODIES AND LIKE SURFACES. SUN OIL COMPANY, Philadelphia, Pa.
Filed February 9, 1946. Serial No. 496,345. PUBLISHED MAY 28, 1946. Class 4.

423,370. LYE. B. T. BABBITT, INC., Albany and New York, N. Y.
Filed February 15, 1946. Serial No. 496,597. PUBLISHED MAY 28, 1946. Class 6.

423,371. LYE. B. T. BABBITT, INC., Albany and New York, N. Y.
Filed February 15, 1946. Serial No. 496,598. PUBLISHED MAY 28, 1946. Class 6.

423,372. CASEIN GLUE. PERKINS GLUE COMPANY, Lansdale, Pa.
Filed February 18, 1946. Serial No. 496,858. PUBLISHED JUNE 4, 1946. Class 5.

423,373. LOTION FOR RELIEF OF ATHLETE'S FOOT, ECZEMA, AND ODOROUS FEET. TORREY & KING, Independence, Mo.
Filed February 19, 1946. Serial No. 496,934. PUBLISHED MAY 28, 1946. Class 6.

423,374. PREPARATION FOR USE IN OBTAINING RELIEF FROM SINUS TROUBLE. CARLOS B. REDDEN, doing business as Carlos B. Redden & Company, Cincinnati, Ohio.
Filed February 20, 1946. Serial No. 496,982. PUBLISHED MAY 28, 1946. Class 6.

423,375. HEMOSTATIC. AYERST, MCKENNA & HARRISON LIMITED, New York, N. Y.
Filed February 23, 1946. Serial No. 497,060. PUBLISHED MAY 28, 1946. Class 6.

423,376. CHILDREN'S DRESSES. THE MAYER-NOCK COMPANY, Philadelphia, Pa.
Filed February 27, 1946. Serial No. 497,318. PUBLISHED MAY 28, 1946. Class 39.

423,377. INFANTS' AND CHILDREN'S KNITTED AND/OR WOVEN WEARING APPAREL—NAMELY, UNDERWEAR, POLO SHIRTS, BASQUE SHIRTS, ETC. A. M. WEBB & CO., New York, N. Y.
Filed March 12, 1946. Serial No. 498,099. PUBLISHED JUNE 4, 1946. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

423,378. (CLASS 39. CLOTHING.) HERMAN MANTELL, New York, N. Y. Filed Mar. 30, 1942. Serial No. 452,017.

Sheer de Chine

FOR HOSIERY.
Claims use since Mar. 6, 1942.

423,379. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill. Filed May 15, 1943. Serial No. 460,661.

COTTAGE

FOR WINDOW SHADES AND ROLLERS.
Claims use since Jan. 1, 1930.

423,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed Feb. 28, 1944. Serial No. 467,832.

THIA-MANNITOL

FOR TABLETS CONTAINING MANNITOL HEXANITRATE AND THIAMINE HYDROCHLORIDE.
Claims use since May 1943.

423,381. (CLASS 37. PAPER AND STATIONERY.) CHECKS, INCORPORATED, New York, N. Y. Filed Aug. 31, 1944. Serial No. 473,771.

CHECKS INCORPORATED

FOR CHECK BLANKS WOUND IN ROLLS WITH ONE OR MORE COPY STRIPS AND STRIPS OF CARBON PAPER INTERLEAVED THEREWITH.
Claims use since Mar. 20, 1936.

423,382. (CLASS 39. CLOTHING.) GAMBLE-SKOGMO, INC., Minneapolis, Minn. Filed Jan. 8, 1945. Serial No. 478,379.

Jerry Donald

The drawing is lined to indicate the color gold but said color is not an essential feature of the mark.
FOR SUITS, OVERCOATS, TOPCOATS, AND OTHER OUTDOOR WEAR COATS FOR BOYS; DRESS SHIRTS, UNDERWEAR, NECKTIES, SPORT SHIRTS, TROUSERS, SLACKS, SWEATERS AND JACKETS OF THE OUTDOOR WEAR TYPE FOR MEN.
Claims use since Feb. 1, 1943.

423,383. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD STRASSBURGER, New York, N. Y. Filed Jan. 13, 1945. Serial No. 478,600.

LIP-SMOOTH

FOR LIP-SALVE.
Claims use since Jan. 11, 1945.

423,384. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERCY C. KENNEDY, doing business as P. C. Kennedy & Co., Kinston, N. C. Filed Jan. 22, 1945. Serial No. 478,878.

KENNEDY'S

FOR PREPARATION FOR THE TREATMENT OF PILES.
Claims use since Jan. 5, 1945.

423,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass., assignor to T. Noonan Sons Company, a corporation of Massachusetts. Filed Jan. 30, 1945. Serial No. 479,193.



FOR SHAMPOO PREPARATION.
Claims use since 1919.

423,386. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENERAL MILLS, INC., Minneapolis, Minn. Filed Feb. 5, 1945. Serial No. 479,431.



FOR FEED FOR ANIMALS—NAMELY, FEED FOR SWINE, FEED FOR POULTRY—NAMELY, CHICK STARTER, GROWING MASH, LAYING MASH, BREEDER MASH, BROILER MASH, SCRATCH GRAINS, DUCK STARTER AND GROWER, DUCK BREEDER, AND DUCK FATTENING FEED, FEED FOR TURKEYS, FEED FOR CATTLE, FEED FOR HORSES, FEED FOR MULES, FEED FOR GOATS, FEED FOR PIGEONS, FEED FOR FOXES, FEED FOR SHEEP, FEED FOR DOGS, FEED FOR RABBITS, MINERAL FEED FOR LIVESTOCK AND POULTRY; FLOUR—NAMELY, WHEAT FLOUR, RYE FLOUR, PASTRY FLOUR, PANCAKE FLOUR; FARINA, ROLLED OATS, CORN MEAL.
Claims use since Mar. 15, 1940, for poultry feed; since Mar. 19, 1940, for cattle feed; since Mar. 19, 1940, for mineral feeds; since Mar. 21, 1940, for swine feed; and since Jan. 9, 1942 on the remainder of said goods.

423,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUE LAKE PRODUCERS COOPERATIVE, Salem, Oreg. Filed Mar. 1, 1945. Serial No. 480,367.

GRAND ISLAND

FOR CANNED BEANS AND CANNED CORN.
Claims use since Oct. 5, 1941.

423,388. (CLASS 39. CLOTHING.) LITTLE PRINCESS Co., Newark, N. J. Filed Mar. 8, 1945. Serial No. 480,669.

ScotLad

FOR BOYS' AND CHILDREN'S CLOTHING—NAMELY, BATH ROBES.
Claims use since Jan. 15, 1945.

423,389. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL ASSOCIATION OF HOUSING OFFICIALS, Chicago, Ill. Filed Mar. 16, 1945. Serial No. 480,996.

the journal of
housing

FOR A PUBLICATION ISSUED MONTHLY AND CONTAINING MATTERS OF GENERAL INTEREST TO THOSE INTERESTED IN HOUSING.
Claims use since October 1944.

423,390. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. B. ERWIN, doing business as Erwin Products, Deerfield, Ill. Filed Apr. 6, 1945. Serial No. 481,780.

CANISEAR

FOR EAR DROPS FOR DOGS.
Claims use since Mar. 28, 1945.

423,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. B. ERWIN, doing business as Erwin Products, Deerfield, Ill. Filed Apr. 6, 1945. Serial No. 481,781.

CANISKIN

FOR PREPARATION FOR TREATMENT AND ALLEVIATION OF FUNGUS SKIN INFECTIONS IN DOGS.
Claims use since Mar. 23, 1945.

423,392. (CLASS 39. CLOTHING.) REICH DRESS COMPANY, Chicago, Ill. Filed Apr. 9, 1945. Serial No. 481,907.

Miss 54"

FOR WOMEN'S AND MISSES' DRESSES, COATS AND SUITS.
Claims use since Mar. 30, 1945.

423,393. (CLASS 39. CLOTHING.) JOSEPH H. SIEGEL, INC., New York, N. Y. Filed Apr. 11, 1945. Serial No. 482,020.

FOR "ALL TIME" WEAR

FOR HOSIERY, BRIEFS, SHORTS, UNDERSHIRTS, UNION SUITS, AND SWEATERS, FOR MEN, WOMEN, AND CHILDREN.
Claims use since Dec. 28, 1944.

423,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERNICE BACKMAN, doing business as Beautymasters of Beverly Hills, Beverly Hills, Calif. Filed May 1, 1945. Serial No. 482,829.

Beautymasters of Beverly Hills

FOR EYE LOTION, FACE LOTION, CLEANSING CREAM, COLD CREAM, EYELID CREAM, AND FACE POWDER.
Claim use since November 1944.

423,395. (CLASS 39. CLOTHING.) NEISNER BROTHERS, INC., Rochester, N. Y. Filed May 3, 1945. Serial No. 482,944.

Lady Rochester

FOR WOMEN'S CLOTHING AND ACCESSORIES—VIZ., HOSIERY, UNDERWEAR, DRESSES, SLIPS, BRASSIÈRES, CORSETS, JACKETS, PAJAMAS, NIGHTGOWNS, PANTIES, SLEEPING GARMENTS, SWEATERS, SLACKS, SHIRTS, BLOUSES, SKIRTS, PLAYSUITS, SHORTS, HATS, SPORT HATS, HEAD SCARFS, NECK SCARFS, COLLARS, TIES, DICKIES, HANDKERCHIEFS, GLOVES MADE OF LEATHER OR RUBBER OR FABRIC OR COMBINATIONS THEREOF, AND GARMENT BELTS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF.
Claims use since Mar. 1, 1928.

423,396. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SIMPLEX PRODUCTS CORPORATION, Cleveland, Ohio. Filed May 19, 1945. Serial No. 483,594.

SHUR-CHEK

FOR METALLIC PISTON RINGS AND EXPANDERS THEREFOR.
Claims use since Apr. 21, 1945.

423,397. (CLASS 39. CLOTHING.) MIDWEST KNIT GOODS Co., Chicago, Ill. Filed May 30, 1945. Serial No. 483,983.

PROPORTION-IZED

FOR WOMEN'S DRESSES.
Claims use since Apr. 9, 1945.

423,398. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSOLIDATED COSMETICS, Chicago, Ill. Filed May 31, 1945. Serial No. 484,011.

ISLE OF CAPRI

FOR FACE POWDER, LIPSTICK, HAND CREAM, PERFUME, AND BRILLIANTINE.
Claims use since May 25, 1945.

423,399. (CLASS 39. CLOTHING.) HART, SCHAFFNER & MARX, Chicago, Ill. Filed June 25, 1945. Serial No. 485,014.

"Seaford"

FOR MEN'S AND BOYS' SUITS, COATS, OVERCOATS, TOPCOATS, VESTS, TROUSERS, KNICKERBOCKERS, AND BREECHES, AND WOMEN'S COATS, OVERCOATS, TOPCOATS, AND SKIRTS.
Claims use since June 9, 1945.

423,400. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITAN FRUIT PRODUCTS COMPANY, Chicago, Ill. Filed June 29, 1945. Serial No. 485,240.

ZESTANG

FOR CANNED OLIVES, PEAS, CORN, AND CHERRIES.
Claims use since October 1942.

423,401. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICE GROWERS ASSOCIATION OF CALIFORNIA, Sacramento, Calif. Filed July 7, 1945. Serial No. 485,546.

GOLDEN PEARL RICE

RICE GROWERS ASSN
OF CALIFORNIA
SACRAMENTO, CALIF

FOR RICE.
Claims use since June 11, 1945.

423,402. (CLASS 39. CLOTHING.) S. F. ISZARD CO., Elmira, N. Y. Filed July 9, 1945. Serial No. 485,575.

Jane Bond

FOR MISSES' AND JUNIOR DRESSES AND COATS.
Claims use since May 14, 1945.

423,403. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IRVING ALTMAN, New York, N. Y. Filed July 16, 1945. Serial No. 485,847.

ELECTRIC TALLY BALL

FOR AMUSEMENT DEVICES IN WHICH SPHERICAL OBJECTS ARE MANUALLY PROPELLED ON A PLAY-FIELD HAVING OPENINGS ADAPTED TO RECEIVE THE SPHERICAL OBJECTS.
Claims use since May 28, 1945.

423,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LES PARFUMS DE DANA, INC., New York, N. Y. Filed July 20, 1945. Serial No. 486,046.

ANALERGIC

FOR TOILET PREPARATIONS, PERFUMERY, AND COSMETICS—NAMELY, PERFUME, TOILET WATERS, LIPSTICKS, FACE POWDERS, TOILET CREAMS, AND ROUGE.
Claims use since May 29, 1945.

423,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN TAMERLANE, Sacramento, Calif. Filed July 20, 1945. Serial No. 486,072.

Passion Flower
"Sweet Fame is Mine"

FOR TOILET PREPARATIONS—NAMELY, COSMETIC CREAMS AND LOTIONS, ROUGES, LIPSTICKS, FACE POWDERS, HAIR DRESSINGS, HAIR TONICS, AND SKIN CLEANSING CREAMS.
Claims use since June 18, 1945.

423,406. (CLASS 39. CLOTHING.) ALBERT H. VANDAM CO., INC., New York, N. Y. Filed July 23, 1945. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 486,183.

COMO

FOR LADIES', MISSES', AND GIRLS' DRESSES, BLOUSES, PLAYSUITS, SKIRTS, AND PINAFORES; AND MEN'S AND BOYS' SPORT SHIRTS, NECKTIES, AND SCARFS.
Claims use since Jan. 10, 1944.

423,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HICKOK MANUFACTURING COMPANY, Rochester, N. Y. Filed July 24, 1945. Serial No. 486,202.

HICKOK

FOR FACE LOTION, COLOGNE, HAIR TONIC, TALCUM POWDER, AND DEODORANTS.
Claims use since Apr. 22, 1945.

423,408. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HICKOK MANUFACTURING COMPANY, Rochester, N. Y. Filed July 24, 1945. Serial No. 486,203.

HICKOK

FOR FACE LOTION, COLOGNE, HAIR TONIC, TALCUM POWDER, AND DEODORANT.
Claims use since Apr. 22, 1945.

423,409. (CLASS 39. CLOTHING.) MORTON'S INCORPORATED, Bowling Green, Ky. Filed Aug. 6, 1945. Serial No. 486,667.

Lady Morton
EXCLUSIVE AT MORTONS

FOR LADIES' APPAREL—NAMELY, BATHING SUITS, PLAY SUITS, SLACK SUITS, SHORTS, FUR COATS, CLOTH COATS, FUR-TRIMMED COATS, RAIN-COATS, SUITS, DRESSES, JUMPERS, EVENING GOWNS, BLOUSES, SKIRTS, JACKETS, HOSIERY, SLIPS, PETTICOATS, SLEEPING AND LOUNGING PAJAMAS, NIGHTGOWNS, BED JACKETS, SLACKS, HATS, SWEATERS, JODHPURS, POLO SHIRTS, HOUSECOATS, ROBES, HOSTESS COATS, NEGLIGEES, SMOCKS AND BRUNCH COATS; NURSES', MAIDS' AND WAITRESSES' UNIFORMS.
Claims use since June 1, 1944.

423,410. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ZION INDUSTRIES, INC., Zion, Ill. Filed Aug. 29, 1945. Serial No. 487,751.

Zion NIFTY PAX

FOR CANDIES.
Claims use since 1936.

423,411. (CLASS 39. CLOTHING.) GOODALL COMPANY, Sanford, Maine, and Cleveland, Ohio. Filed Sept. 27, 1945. Serial No. 489,066.

SPRINGWEAVE

FOR MEN'S AND BOYS' SUITS, CONSISTING OF COATS, VESTS, PANTS AND KNICKERBOCKERS.
Claims use since Aug. 1, 1941.

423,412. (CLASS 39. CLOTHING.) NEW YORK MERCHANDISE CO., INC., New York, N. Y. Filed Oct. 6, 1945. Serial No. 489,525.

BESTMAID

FOR INFANTS' WEAR.
Claims use since 1925.

423,413. (CLASS 39. CLOTHING.) ARTVOGUE SPORTSWEAR CO., San Francisco, Calif. Filed Oct. 6, 1945. Serial No. 489,552.

CASUILITE

FOR MEN'S AND BOYS' SPORT SHIRTS.
Claims use since May 1, 1945.

423,414. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAUDE C. LONG, doing business as Tetter Mop Co., Colquitt, Ga. Filed Oct. 15, 1945. Serial No. 489,973.

TETTER MOP

FOR MEDICINAL PREPARATION FOR THE RELIEF OF ATHLETE'S FOOT, TETTER, RINGWORM, ECZEMA, AND DEW POISONS.
Claims use since 1930.

423,415. (CLASS 39. CLOTHING.) JOAN HARREL DRESSES, INC., New York, N. Y. Filed Nov. 30, 1945. Serial No. 492,438.

Joan Harrel CREATION

FOR LADIES' DRESSES OF KNITTED, NETTED, AND TEXTILE FABRICS.
Claims use since Apr. 27, 1945.

423,416. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) QUINCY LABORATORIES, INC., Chicago, Ill. Filed Dec. 1, 1945. Serial No. 492,517.

Hair Foam

The representation of the girl is fanciful.
FOR HAIR SHAMPOO.
Claims use since Aug. 18, 1944.

423,417. (CLASS 39. CLOTHING.) GROSS BLOUSE CO., New York, N. Y. Filed Dec. 13, 1945. Serial No. 493,188.

Jacky Grey Jr

FOR LADIES' BLOUSES.
Claims use since Dec. 1, 1944.

423,418. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERMA-SHEEN CHEMICAL CO., Washington, Pa. Filed Dec. 13, 1945. Serial No. 493,210.

Skalp-Kare
for Baby Hair

FOR HAIR TONICS.
Claims use since Dec. 1, 1944.

423,419. (CLASS 39. CLOTHING.) DAVID A. SOMAN, doing business as Danax Company, New York, N. Y. Filed Dec. 18, 1945. Serial No. 493,520.

JOYCE CAROL

FOR CLOTHING—NAMELY, LADIES' AND MISSES' SLIPS; PAJAMAS; NIGHTGOWNS; GOWN AND ROBE ENSEMBLES, AND LOUNGING ROBES.
Claims use since Feb. 1, 1944.

423,420. (CLASS 39. CLOTHING.) GROSSMAN-FELD CLOAK CO., New York, N. Y. Filed Dec. 22, 1945. Serial No. 493,768.

GROSFELD

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since June 1, 1944.

423,421. (CLASS 39. CLOTHING.) MIAMI GUILD EMBROIDERIES, Miami, Fla. Filed Dec. 29, 1945. Serial No. 494,100.

Miami GUILD EMBROIDERIES

FOR SPORTSWEAR AND RESORT WEAR—NAMELY, BATHING SUITS, SLACKS, SHORTS, AND PLAYSUITS.
Claims use since July 1943.

423,422. (CLASS 17. TOBACCO PRODUCTS.) ARCADIO ROSAS, Tampa, Fla., Filed Jan. 31, 1946. Serial No. 495,761.

ROSAS

FOR CIGARS.
Claims use since May 1931.

423,423. (CLASS 39. CLOTHING.) SYDNEY BERLINER, New York, N. Y. Filed Feb. 27, 1946. Serial No. 497,292.

THE BERLINER

FOR WOMEN'S CLOTHING—NAMELY, BLOUSES, SHIRT WAISTS, SKIRTS, SLACKS, SHORTS, JACKETS, AND DRESSES.
Claims use since June 2, 1943.

423,424. (CLASS 39. CLOTHING.) HENRY MANDELBAUM, New York, N. Y. Filed Mar. 2, 1946. Serial No. 497,550.

Linwood

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, TOPPERS, SKIRTS, AND COAT AND SUIT ENSEMBLES.
Claims use since May 1, 1942.

423,425. (CLASS 39. CLOTHING.) COHEN BROS. SPECIALTIES INC., New York, N. Y. Filed Mar. 20, 1946. Serial No. 498,603.

Mac Beth

FOR MEN'S ROBES.
Claims use since Mar. 1, 1945.

TRADE-MARK REGISTRATIONS RENEWED

28,026. **LIBERTY RED.** LITHOGRAPHIC INK. Registered Mar. 31, 1896. THE FUCHS & LANG MANUFACTURING COMPANY, Brooklyn and New York, N. Y. Re-renewed Mar. 31, 1946, to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware. Class 11.

28,086. **WTM AND DRAWING.** LINIMENT. Registered Apr. 7, 1896. WILLIAM T. MOXON. Re-renewed Apr. 7, 1946, to Thomas T. Shoemaker, doing business as Moxon Liniment Company, Mount Clemens, Mich. Class 6.

28,866. **"A" ETC. AND DESIGN.** BOTTLED LAGER-BEER. Registered Sept. 8, 1896. ANHEUSER-BUSCH BREWING ASSOCIATION. Re-renewed Sept. 8, 1946, to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri. Class 48.

50,824. **"IDEAL" AND DESIGN.** INSULATED WIRE AND INSULATED-WIRE CABLES. Registered Apr. 3, 1906. PHILLIPS INSULATED WIRE CO., Pawtucket, R. I. Re-renewed Apr. 3, 1946, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Class 21.

50,825. **"O.K." AND DESIGN.** INSULATED CONDUCTING-WIRES FOR TELEGRAPHS, TELEPHONES, ELECTRIC LIGHTS, ETC. Registered Apr. 3, 1906. PHILLIPS INSULATED WIRE CO., Pawtucket, R. I. Re-renewed Apr. 3, 1946, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Class 21.

50,861. **FONTICELLO.** LITHIA WATER. Registered Apr. 3, 1906. WILLIAM G. TAYLOR. Re-renewed Apr. 3, 1946, to J. R. Blackwell, Richmond, Va. Class 45.

51,383. **IMPERIAL.** RUBBER COMBS. Registered Apr. 17, 1906. AMERICAN HARD RUBBER COMPANY, New York, N. Y., a corporation of New York. Re-renewed Apr. 17, 1946. Class 40.

51,412. **PRINCESS.** RUBBER COMBS. Registered Apr. 17, 1906. AMERICAN HARD RUBBER COMPANY, New York, N. Y., a corporation of New York. Re-renewed Apr. 17, 1946. Class 40.

51,721. **HERCULES.** HARD-RUBBER COMBS. Registered Apr. 24, 1906. AMERICAN HARD RUBBER COMPANY, New York, N. Y., a corporation of New York. Re-renewed Apr. 24, 1946. Class 40.

52,055. **ARCO.** WATERPROOF STRUCTURAL AND ROOF PAINT. Registered May 1, 1906. THE ATLANTIC REFINING COMPANY. Re-renewed May 1, 1946, to The Arco Company, Cleveland, Ohio, a corporation of Ohio. Class 16.

52,085. **MARCEL.** HARD-RUBBER COMBS. Registered May 1, 1906. AMERICAN HARD RUBBER COMPANY, New York, N. Y., a corporation of New York. Re-renewed May 1, 1946. Class 40.

52,125. **DOT.** GOLF BALLS. Registered May 1, 1906. A. G. SPALDING & BROS., New York, N. Y. Re-renewed May 1, 1946, to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware. Class 22.

52,507. **P.O.N.** LAGER-BEER. Registered May 8, 1906. CHRISTIAN FEIGENSPAN, a corporation. Re-renewed May 8, 1946, to P. Ballantine & Sons, Newark, N. J., a corporation of New Jersey. Class 48.

52,626. **"PARAC" AND DESIGN.** INSULATED WIRES. Registered May 15, 1906. PHILLIPS INSULATED WIRE CO., Pawtucket, R. I. Re-renewed May 15, 1946, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Class 21.

53,349. **"WYANDOTTE" AND DRAWING.** SODA-ASH AND CAUSTIC SODA. Registered May 29, 1906. MICHIGAN ALKALI COMPANY, Ford City, Mich. Re-renewed May 29, 1946, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan. Class 6.

53,829. **"K AND E" AND DESIGN.** MEN'S SHIRTS AND BOYS' SHIRTS, WAISTS, AND BLOUSES. Registered June 12, 1906. CHARLES EISENMAN & CO. Re-renewed June 12, 1946, to The Kaynee Company, Cleveland, Ohio, a corporation of Ohio. Class 39.

54,178. **OLD HICKORY.** WOVEN COTTON PIECE GOODS. Registered June 19, 1906. J. S. REEVES & CO., Nashville, Tenn., a firm. Re-renewed June 19, 1946. Class 42.

54,575. **KAUMAGRAPH.** STAMPS FOR STAMPING TRADE-MARKS UPON TEXTILES. Registered June 26, 1906. KAUMAGRAPH CO., New York, N. Y. Re-renewed June 26, 1946, to Kaumagraph Company, Wilmington, Del., a corporation of Delaware. Class 50.

54,703. **HEAR IT SNAP.** REPAIR-LINKS FOR LINK CHAINS. Registered June 26, 1906. DIAMOND CHAIN & MANUFACTURING CO. Re-renewed June 26, 1946, to Diamond Chain Company, Inc., Indianapolis, Ind., a corporation of Indiana. Class 13.

54,776. **GERMICIDE.** SOAP FOR ANTISEPTIC AND DISINFECTING PURPOSES. Registered July 31, 1906. FELS & CO. Re-renewed July 31, 1946, to Fels & Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 4.

54,934. **CLARK'S.** COTTON THREADS OF ALL KINDS. Registered Aug. 7, 1906. THE CLARK THREAD COMPANY, Newark, N. J., a corporation of New Jersey. Re-renewed Aug. 7, 1946. Class 43.

54,938. **GENUINE.** ALMOND PASTE FOR FOOD PURPOSES. Registered Aug. 7, 1906. HENRY HEIDE. Re-renewed Aug. 7, 1946, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York. Class 46.

55,100. **REPRESENTATION OF GODDESS OF LIBERTY ON ACE OF SPADES.** PLAYING-CARDS. Registered Aug. 7, 1906. THE UNITED STATES PLAYING CARD CO. Re-renewed Aug. 7, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

55,478. **FELS-NAPTHA.** SOAP. Registered Aug. 14, 1906. FELS & COMPANY. Re-renewed Aug. 14, 1946, to Fels & Company, Philadelphia, Pa., a corporation of Pennsylvania. Class 4.

55,508. **NO. HART'S 68.** PLAYING-CARDS. Registered Aug. 14, 1906. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Re-renewed Aug. 14, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

55,524. **REPRESENTATION OF FOUR WINGS ON BICYCLE WHEEL.** PLAYING-CARDS. Registered Aug. 14, 1906. THE UNITED STATES PLAYING CARD CO. Re-renewed Aug. 14, 1946, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio. Class 22.

55,744. **ANÄSTHESIN.** ANESTHETICS. Registered Aug. 21 1906. FARBWERKE VORM. MEISTER LUCIUS & BRÜNING, Höchst-on-the-Main, Germany. Re-renewed Aug. 21, 1946, to The Chemical Foundation, Incorporated, New York, N. Y., a corporation of New York. Class 6.

56,110. **DESIGN COMPRISING A CIRCLE ETC.** VAMPING-THREAD. Registered Aug. 28, 1906. THE CLARK THREAD COMPANY, Newark, N. J., a corporation of New Jersey. Re-renewed Aug. 28, 1946. Class 43.

209,499. **SUNSET.** MONTHLY MAGAZINE. Registered Feb. 23, 1926. SUNSET MAGAZINE, INC. Renewed Feb. 23, 1946, to Lane Publishing Company, San Francisco, Calif., a corporation of Nevada. Class 38.

211,081. **Y.** STEEL SHEETS, PLATES, AND BARS. Registered Apr. 6, 1926. THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio, a corporation of Ohio. Renewed Apr. 6, 1946. Class 14.

211,214. **YVY.** CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. Registered Apr. 6, 1926. AKTIEBOLAGET YVY-FABRIKEN, Ystad, Sweden, a Swedish corporation. Renewed Apr. 6, 1946. Class 6.

211,249. **SIMPLEX.** PISTON RINGS. Registered Apr. 6, 1926. THE SOLENBERGER PISTON RING COMPANY, now by change of name The Simplex Piston Ring Company. Renewed Apr. 6, 1946, to Simplex Products Corporation, Cleveland, Ohio, a corporation of Ohio. Class 35.

211,276. **DAREN.** BREAD AND WHEAT GERM FLOUR AND MIXED FLOUR CONTAINING WHEAT GERMS. Registered Apr. 6, 1926. KEYES DAREN MILLS LIMITED. Renewed Apr. 6, 1946, to Daren Limited, Dartford, England, a limited liability company of Great Britain. Class 46.

211,470. **"FILMS PARAMOUNT" AND DRAWING.** MOVING PICTURES. Registered Apr. 13, 1926. FAMOUS PLAYERS-LASKY CORPORATION. Renewed Apr. 13, 1946, to Paramount Pictures Inc., New York, N. Y., a corporation of New York. Class 26.

211,825. **GEOGRAPHIC.** LETTER-PRESS OR TYPOGRAPHIC INKS. Registered Apr. 20, 1926. SIGMUND ULLMAN COMPANY. Renewed Apr. 20, 1946, to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware. Class 11.

211,829. **"ABMC" IN A DESIGN.** CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. Registered Apr. 20, 1926. AMERICAN BOSCH MAGNETO CORPORATION. Renewed Apr. 20, 1946, to American Bosch Corporation, Springfield, Mass., a corporation of New York. Class 21.

212,152. **EAGLE.** PLASTER. Registered Apr. 27, 1926. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Renewed Apr. 27, 1946, to Certain-teed Products Corporation, Chicago, Ill., a corporation of Maryland. Class 12.

212,163. **ZERODOR.** BODY DEODORANT. Registered Apr. 27, 1926. ARNOLD J. SCHELE, Cle Elum, Wash. Renewed Apr. 27, 1946, to Coty, Inc., New York, N. Y., a corporation of Delaware. Class 6.

212,263. **FORSTINA.** WOOLEN PIECE GOODS. Registered Apr. 27, 1926. FORSTMANN & HUFFMAN COMPANY. Renewed Apr. 27, 1946, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Class 42.

212,467. **"TASCO" AND DESIGN.** REPAIR AND REPLACEMENT PARTS, INCLUDING DUST CAPS, TANK CAPS, RADIATOR CAPS, GREASE CUPS, SPRINGS, BEARING LINERS, AND RADIUS RODS. Registered May 4, 1926. THE AUTOMOTIVE SPECIALTY CORPORATION, New York, N. Y. Renewed May 4, 1946, to The Automotive Specialty Corporation, Brooklyn, N. Y., a corporation of New York. Class 19.

212,943. **ARISTOCRAT.** RADIO CONTROL MECHANISM, INDICATORS, DIALS, KNOBS, POINTERS, SOCKETS, RHEOSTATS, SWITCHES, AND PARTS THEREOF, CONDENSER PARTS, RESISTANCE UNIT MOUNTINGS, FORMED IN WHOLE OR IN PART FROM PHENOLIC CONDENSATION MATERIALS. Registered May 18, 1926. THE KURZ-KASCH COMPANY. Renewed May 18, 1946, to Kurz Kasch, Inc., Dayton, Ohio, a corporation of Ohio. Class 21.

213,050. **"DU PONT DUCO" AND DESIGN.** POLISHES ACTING AS DIRT AND GREASE REMOVERS AND CLEANING MATERIALS. Registered May 18, 1926. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed May 18, 1946. Class 4.

213,279. **"WYANDOTTE" AND DRAWING.** PAINT AND ENAMEL REMOVER. Registered May 25, 1926. THE J. B. FORD COMPANY. Renewed May 25, 1946, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan. Class 16.

213,698. **FEROLENE.** PREPARATION FOR CLEANING AND LUBRICATING FERROTYPE TINS SO THAT GLOSSY PRINTS ON BEING DRIED WILL NOT STICK SO TIGHTLY AS TO BECOME DAMAGED WHILE BEING REMOVED FROM SAID FERROTYPE TINS. Registered June 1, 1926. THE FEROLENE SALES CO. Renewed June 1, 1946, to Minnie S. Clough, Kansas City, Mo. Class 6.

214,402. **AURORA.** CLOCKS. Registered June 22, 1926. THE E. INGRAHAM COMPANY, Bristol, Conn., a corporation of Connecticut. Renewed June 22, 1946. Class 27.

214,586. **COPPEROID.** STEEL PLATES. Registered June 29, 1926. THE YOUNGSTOWN SHEET AND TUBE COMPANY, Youngstown, Ohio, a corporation of Ohio. Renewed June 29, 1946. Class 14.

214,760. **SUNYLAND.** COTTON PIECE GOODS, SILK AND COTTON PIECE GOODS, AND ARTIFICIAL-SILK AND COTTON PIECE GOODS. Registered July 6, 1926. HENRY GLASS & CO., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 42.

214,811. **WENDY.** COTTON PIECE GOODS, SILK AND COTTON PIECE GOODS, AND ARTIFICIAL-SILK AND COTTON PIECE GOODS. Registered July 6, 1926. HENRY GLASS & CO., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 42.

214,812. **TOPANGO.** COTTON PIECE GOODS, SILK AND COTTON PIECE GOODS, AND ARTIFICIAL-SILK AND COTTON PIECE GOODS. Registered July 6, 1926. HENRY GLASS & CO., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 42.

214,813. **CHING WING.** COTTON PIECE GOODS, SILK AND COTTON PIECE GOODS, AND ARTIFICIAL-SILK AND COTTON PIECE GOODS. Registered July 6, 1926. HENRY GLASS & CO., New York, N. Y., a corporation of New York. Renewed July 6, 1946. Class 42.

215,037. **CLASSIC.** BOND PAPER. Registered July 6, 1926. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass., a corporation of Massachusetts. Renewed July 6, 1946. Class 37.

215,325. **COURT LINEN LEDGER.** LEDGER PAPER. Registered July 13, 1926. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass., a corporation of Massachusetts. Renewed July 13, 1946. Class 37.

215,327. **CIRCULAR DESIGN.** ARMORED CABLES, ARMORED CORDS, AND FLEXIBLE METALLIC CONDUITS FOR ELECTRICAL PURPOSES. Registered July 13, 1926. DETROIT INSULATED WIRE COMPANY, Detroit, Mich. Renewed July 13, 1946, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Class 21.

215,723. **CASH'S.** TEXTILE SMALL WARES—NAMELY, WOVEN NAMES, WOVEN INITIALS, WOVEN NUMBERS, WOVEN LABELS, AND COTTON WASH TRIMMINGS. Registered July 27, 1926. J. & J. CASH, INCORPORATED, South Norwalk, Conn., a corporation of Connecticut. Renewed July 27, 1946. Class 40.

216,081. **STRIPPLE.** PREPARED CAUSTIC FOR REMOVING PAINT AND ENAMEL. Registered Aug. 3, 1926. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa., a corporation of Delaware. Renewed Aug. 3, 1946. Class 16.

216,179. **SEA LOAF.** FRESH FISH AND FRESH FISH FLESH. Registered Aug. 3, 1926. GENERAL SEAFOODS CORPORATION, Gloucester, Mass. Renewed Aug. 3, 1946, to General Foods Corporation, New York, N. Y., a corporation of Delaware. Class 46.

216,291. **DAVIS.** MACHINES FOR CUTTING KEY-SEATS. Registered Aug. 10, 1926. EDWARD A. GRENELLE, doing business as Davis Keyseater Company, Rochester, N. Y. Renewed Aug. 10, 1946. Class 23.

216,294. **"B & D" AND DESIGN.** PORTABLE ELECTRIC DRILLS AND TWIST-DRILL GRINDERS, PORTABLE ELECTRIC SCREW, BOLT AND NUT DRIVERS, AND CERTAIN OTHER NAMED ELECTRIC MACHINES. Registered Aug. 10, 1926. THE BLACK AND DECKER MANUFACTURING COMPANY, Towson, Md., a corporation of Maryland. Renewed Aug. 10, 1946. Class 21.

216,364. **LITE.** SHAMPOO. Registered Aug. 10, 1926. GUY E. BRIGNALL, doing business as Lite Soap Company, Aurora, Ill. Renewed Aug. 10, 1946. Class 6.

216,404. **DEWKIST.** PURE RIBBON SUGAR-CANE SIRUP FOR FOOD PURPOSES. Registered Aug. 10, 1926. RODDENBERY BROTHERS, Cairo, Ga., a firm. Renewed Aug. 10, 1946. Class 46.

216,494. **ELECTRIFIED.** ICE. Registered Aug. 10, 1926. SOUTHERN PROPERTIES, INC., Dallas, Tex., a corporation of Texas. Renewed Aug. 10, 1946. Class 1.

216,525. **ABRAHAM & STRAUS.** SHOE LASTS, ANIMAL TRAPS, RAT TRAPS, RUBBER CLOTH, RUBBER MATS, PLASTER BAS-RELIEFS, STATUARY, STATUETTES, AND CERTAIN OTHER NAMED ARTICLES OF MERCHANDISE. Registered Aug. 10, 1926. ABRAHAM & STRAUS, INC., New York, N. Y. Renewed Aug. 10, 1946, to Abraham & Straus, Inc., Brooklyn, N. Y., a corporation of New York. Class 50.

216,538. **OKLAHOMA CHIEF.** BRICK. Registered Aug. 10, 1926. ACME BRICK COMPANY, Fort Worth, Tex., a corporation of Texas. Renewed Aug. 10, 1946. Class 12.

216,679. **"UN X LD FLASH SALUTE" AND DESIGN.** FIRECRACKERS. Registered Aug. 17, 1926. UNEXCELLED MANUFACTURING COMPANY, INC., New York, N. Y., a corporation of New York. Renewed Aug. 17, 1946. Class 9.

216,766. **"WE DO IT QUICK".** PRINTED BOOKS, PAMPHLETS, CATALOGUES, CIRCULARS, BUSINESS CARDS, BROCHURES, ANNOUNCEMENT CARDS, WEDDING INVITATIONS, ENGRAVED CARDS, PROGRAMS, AND CERTAIN OTHER NAMED PRINTED ARTICLES. Registered Aug. 17, 1926. JOHN S. BRIDGES, doing business as John S. Bridges & Co. Renewed Aug. 17, 1946, to Harry S. Scott, Inc., Baltimore, Md., a corporation of Maryland. Class 38.

216,862. **ZONOLITE.** NATURAL MINERAL SUBSTANCE HAVING INSULATING, DECORATIVE, AND ACID RESISTING PROPERTIES, AND WHICH MAY BE USED ALONE OR IN COMBINATION WITH OTHER ELEMENTS AS ABOVE STATED AND PROBABLY FOR MANY OTHER PURPOSES WHICH ARE UNKNOWN AT THIS TIME. Registered Aug. 24, 1926. THE ZONOLITE COMPANY, Libby, Mont. Renewed Aug. 24, 1946, to Universal Zonolite Insulation Co., Chicago, Ill., a corporation of Montana. Class 1.

217,018. **UNIVERSAL.** COAL. Registered Aug. 24, 1926. LINEHAN & MOLO, Dubuque, Iowa, a firm. Renewed Aug. 24, 1946. Class 1.

217,019. **SILVER GEM KENTUCKY.** COAL. Registered Aug. 24, 1926. LINEHAN & MOLO, Dubuque, Iowa, a firm. Renewed Aug. 24, 1946. Class 1.

217,030. **McCORMICK-DEERING.** WAGONS AND PARTS THEREOF. Registered Aug. 24, 1926. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed Aug. 24, 1946. Class 19.

217,102. **VULCAN.** COKE. Registered Aug. 24, 1926. LINEHAN & MOLO, Dubuque, Iowa, a firm. Renewed Aug. 24, 1946. Class 1.

217,126. **"PYRAMID PRODUCTS" AND DESIGN.** SEA COAL, GRAPHITE, CORE BINDER, PARTING, FOUNDRY FACING. Registered Aug. 24, 1926. CHAMBERLAIN CO., INC., Los Angeles, Calif., a corporation of California. Renewed Aug. 24, 1946. Classes 1 and 5.

217,138. **VIRTUS.** HAIR TONICS, TOILET WATER, HAIR OILS AND PREPARATIONS USED IN DRESSING THE HAIR, LIQUID ENAMEL, MASSAGE CREAM, LEMON CREAM, COMPLEXION CREAM, MENTHOL CREAM, FACE POWDER. Registered Aug. 24, 1926. PHILIP H. WARSHAW, INC. Renewed Aug. 24, 1946, to William Amsel, New York, N. Y. Class 6.

217,252. **IDEAL.** COAL. Registered Aug. 31, 1926. LINEHAN & MOLO, Dubuque, Iowa, a firm. Renewed Aug. 31, 1946. Class 1.

217,270. **"WE DO IT QUICK".** PRINTED MAILING ENVELOPES, LETTERHEADS, BILLHEADS, STOCK-CERTIFICATE FORMS, SHIPPING TAGS, LOOSE-LEAF BINDERS, LEGAL FORMS, BOUND LEDGERS, CHECK BOOKS, SHEETS FOR LOOSE-LEAF BINDERS, STATEMENT FORMS, AND CERTAIN OTHER NAMED ARTICLES OF STATIONERY. Registered Aug. 31, 1926. JOHN S. BRIDGES, doing business as John S. Bridges & Co. Renewed Aug. 31, 1946, to Harry S. Scott, Inc., Baltimore, Md., a corporation of Maryland. Class 37.

217,287. **OVAL DESIGN.** CURED HAM, BACON, BEEF, CANNED PORK AND BEANS, FRUIT PRESERVES, FRUIT JAMS, FRUIT JELLIES, MARMALADES, AND CERTAIN OTHER NAMED GROCERIES. Registered Aug. 31, 1926. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y., a corporation of New York. Renewed Aug. 31, 1946. Class 46.

217,347. **HODELL.** CHAINS AND CHAIN PRODUCTS AND HOOKS, RINGS, BOLTS, SWIVELS, SNAPS, TOGGLES, SCREW EYES, LINKS, AND FASTENERS FOR TIRE CHAINS, ALL OF BASE METAL. Registered Aug. 31, 1926. THE CHAIN PRODUCTS COMPANY. Renewed Aug. 31, 1946, to The Hodell Chain Company, Cleveland, Ohio, a corporation of Ohio. Class 13.

217,366. **OVAL DESIGN WITH OUTER BAND COLORED RED.** CURED HAM, BACON, BEEF, CANNED PORK AND BEANS, FRUIT JAMS, FRUIT JELLIES, MARMALADES, CURED FRUITS, PRESERVED VEGETABLES, AND CERTAIN OTHER NAMED GROCERIES. Registered Aug. 31, 1926. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y., a corporation of New York. Renewed Aug. 31, 1946. Class 46.

217,448. **"ACME" AND DESIGN.** CEMENT. Registered Aug. 31, 1926. NORTH AMERICAN CEMENT CORPORATION, Albany, N. Y. Renewed Aug. 31, 1946, to North American Cement Corporation, New York, N. Y., a corporation of Delaware. Class 12.

217,463. **STERO STROP.** RAZOR STROPS. Registered Aug. 31, 1926. RALPH R. EDWARDS, San Diego, Calif. Renewed Aug. 31, 1946. Class 4.

217,553. **PROTEX.** PACKING PADS MADE OF EXCELSIOR OR SIMILAR PACKING MATERIAL AND HAVING A COVERING OF PAPER OR SIMILAR MATERIAL AND DESIGNED FOR USE IN PACKING OBJECTS FOR SHIPMENT. Registered Sept. 7, 1926. H. W. SELLE & CO. Renewed Sept. 7, 1946, to American Excelsior Corporation, Chicago, Ill., a corporation of Delaware. Class 50.

217,895. **CIRCULAR DESIGN.** ROTARY SNAP SWITCHES. Registered Sept. 14, 1926. THE ARROW ELECTRIC COMPANY. Renewed Sept. 14, 1946, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut. Class 21.

217,969. **HYAN DRY.** NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. Registered Sept. 14, 1926. GERHARD LANG BREWERY, Buffalo, N. Y., a corporation of New York. Renewed Sept. 14, 1946. Class 45.

217,975. **KEYSTONE.** VEHICULAR TOYS—NAMELY, MOVING VANS, DUMP TRUCKS, SPRINKLER-TANK TRUCKS, DELIVERY TRUCKS, STEAM SHOVELS, FIRE TRUCKS, AND CERTAIN OTHER NAMED TOYS. Registered Sept. 14, 1926. KEYSTONE MFG. CO., Boston, Mass., a corporation of Massachusetts. Renewed Sept. 14, 1946. Class 22.

218,009. **SONADA.** CIGARS. Registered Sept. 14, 1926. MICHAEL IBOLD, INC., Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 14, 1946. Class 17.

218,072. **ALAMO.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT. Registered Sept. 21, 1926. FILLMORE CITRUS FRUIT ASSOCIATION. Renewed Sept. 21, 1946, to Fillmore Lemon Association, Fillmore, Calif., a corporation of California. Class 46.

218,073. **POINSETTIA.** FRESH CITROUS FRUITS—NAMELY, FRESH ORANGES, LEMONS, AND GRAPEFRUIT; FRESH DECIDUOUS FRUITS—NAMELY, FRESH APPLES, PEARS, PEACHES, FRESH GRAPES. Registered Sept. 21, 1926. FILLMORE PACKING CO., doing business as Fillmore Citrus Packing Co. Renewed Sept. 21, 1946, to Fillmore Citrus Association, Fillmore, Calif., a corporation of California. Class 46.

218,106. **CAMEL.** FRESH CITROUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT, TANGERINES. Registered Sept. 21, 1926. ORANGE HEIGHTS FRUIT ASSOCIATION. Renewed Sept. 21, 1946, to Orange Heights Orange Association, Corona, Calif., a corporation of California. Class 46.

218,128. **TRU TEST.** FACE POWDERS, FACE CREAMS, FACE PACKS, TOILET WATERS, ROUGES, PERFUMES, HAIR TONICS, HAIR OILS, DENTIFRICES, TOOTH POWDERS, NAIL POLISHES, AND CERTAIN OTHER NAMED COSMETICS. Registered Sept. 21, 1926. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn., a corporation of Tennessee. Renewed Sept. 21, 1946. Class 6.

218,136. **"BNC" AND DESIGN.** SALT. Registered Sept. 21, 1926. THE GRIFFITH LABORATORIES, INC., Chicago, Ill., a corporation of Illinois. Renewed Sept. 21, 1946. Class 46.

218,142. **ARTGLO.** ARTIFICIAL SILK IN THE PIECE. Registered Sept. 21, 1926. ANNIN & CO., New York, N. Y., a corporation of New York. Renewed Sept. 21, 1946. Class 42.

218,173. **WEBER.** PANTOGRAPHS, PLANIMETERS, SLIDE RULES, AND CALCULATING INSTRUMENTS; DRAFTSMEN'S, ARCHITECTS' AND ENGINEERS' SCALES, TRIANGLES, T-SQUARES, CURVES, AND CERTAIN OTHER NAMED APPLIANCES. Registered Sept. 21, 1926. F. WEBER CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 21, 1946. Class 26.

218,184. **"HAWK" AND DESIGN.** OVERALLS, PANTS, SHIRTS, AND AUTO SUITS ALSO CALLED COVERALLS, ETC., FOR MEN, WOMEN, AND CHILDREN. Registered Sept. 21, 1926. THE MILLER COMPANY, Dallas and Fort Worth, Tex. Renewed Sept. 21, 1946, to The Hawk & Buck Co., Incorporated, Fort Worth, Tex., a corporation of Texas. Class 39.

218,228. **REPRESENTATION OF THE MOON AND A PLURALITY OF STARS.** MATTRESSES, BOX SPRINGS, AND PILLOWS. Registered Sept. 21, 1926. ADAM WUEST. Renewed Sept. 21, 1946, to Adam Wuest, Inc., Cincinnati, Ohio, a corporation of Ohio. Class 32.

218,242. **PINK OF PERFECTION.** CANDIES. Registered Sept. 21, 1926. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 21, 1946. Class 46.

218,268. **"CRESCA" ETC. AND DESIGN.** CIGARS, CIGARETTES, SMOKING AND CHEWING TOBACCO. Registered Sept. 21, 1926. CRESCA COMPANY, INCORPORATED, New York, N. Y., a corporation of New York. Renewed Sept. 21, 1946. Class 17.

218,468. **MILK-BONE.** ANIMAL BISCUITS. Registered Sept. 28, 1926. F. H. BENNETT BISCUIT COMPANY. Renewed Sept. 28, 1946, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Class 46.

218,498. **PARAMOUNT.** BOTTLED SALAD DRESSING. Registered Sept. 28, 1926. HIRSCH BROS. & CO., Louisville, Ky., a corporation of Kentucky. Renewed Sept. 28, 1946. Class 46.

218,594. **WEBER.** WATERPROOF INDIA INK, DRAWING INK, WRITING AND MARKING INK, INDELIBLE INK, AND ETCHER'S INK. Registered Sept. 28, 1926. F. WEBER CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 28, 1946. Class 11.

218,657. **"PERMALBA" ETC. AND DESIGN.** ARTISTS' COLORS. Registered Sept. 28, 1926. F. WEBER CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 28, 1946. Class 16.

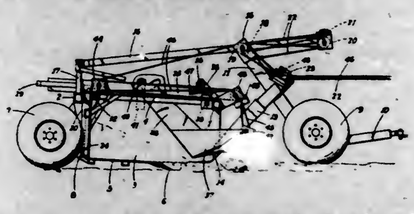
218,659. **SOLITAIRE.** BREAD. Registered Sept. 28, 1926. THE MOREY MERCANTILE COMPANY, Denver, Colo., a corporation of Colorado. Renewed Sept. 28, 1946. Class 46.

REISSUES

AUGUST 27, 1946

22,783
SCRAPER

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., and Peoria, Ill., a corporation of California
Original No. 1,963,665, dated June 19, 1934, Serial No. 647,529, December 16, 1932. Application for reissue March 19, 1946, Serial No. 655,531
23 Claims. (Cl. 37—126)

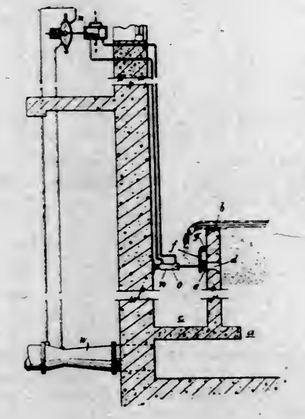


15. A scraper comprising a main bowl, a forwardly movable rear endgate therein, an auxiliary upwardly movable bowl in front of the main bowl, and a common operating means to both pull the endgate forwardly and raise the auxiliary bowl, and means acting in conjunction with said operating means to cause the functioning of the latter to raise the auxiliary bowl any desired amount during all loading operations without moving the endgate.

22,784
FILTERING APPARATUS

William Smalley, London, England, assignor to The Paterson Engineering Company Limited, London, England
Original No. 2,384,972, dated September 18, 1945, Serial No. 465,893, November 17, 1942. Application for reissue January 25, 1946, Serial No. 643,214. In Great Britain October 24, 1941
4 Claims. (Cl. 210—130)

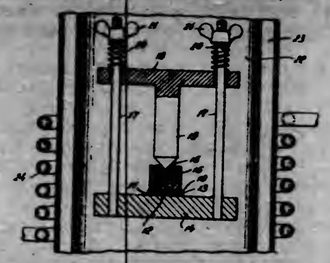
1. A filtering apparatus of the character described including a walled body having filtering sand in the bottom thereof, a spill-over wall in the bottom of the body confining the sand at one side and spaced from the adjacent wall of the body to provide a waste channel, the top of the spill-over wall being positioned at least a foot above the normal surface of the sand and having at least one aperture therethrough at a point slightly above the normal level of the sand, a member normally closing said aperture and actuating means operatively connected to said member for moving the same to open position when the flow of wash water is so reduced that the bed settles below the level of said aperture.



PATENTS

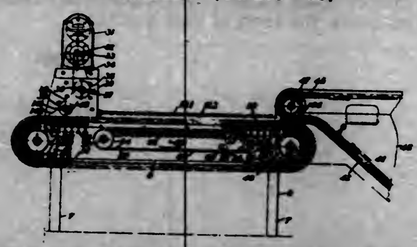
GRANTED AUGUST 27, 1946

2,406,310
BERYLLIUM BRAZING
George J. Agnio, Stamford, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application February 11, 1944, Serial No. 522,013
2 Claims. (Cl. 113—112)



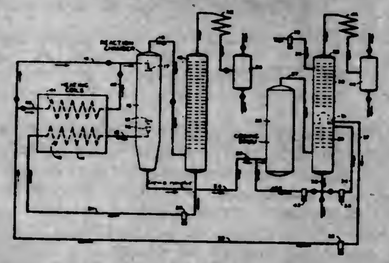
1. A method of securing a member made substantially entirely of beryllium to a metallic base to close an opening in the base, which comprises placing a washer of a brazing medium on the base to encircle the opening, placing the member upon the washer to close one end of the opening, placing the base with the washer and member in place thereon upon a support making contact with the base around the other end of the opening and closing the opening at said other end, applying pressure to the member tending to move it toward the base, evacuating the space about the base and the assembled parts thereon, and heating the assembled parts until the washer has melted and molten brazing medium has issued from between the member and base.

2,406,311
ARTICLE ORIENTATION
George W. Ashlock, Jr., Oakland, Calif.
Application February 21, 1945, Serial No. 579,141
12 Claims. (Cl. 198—33)



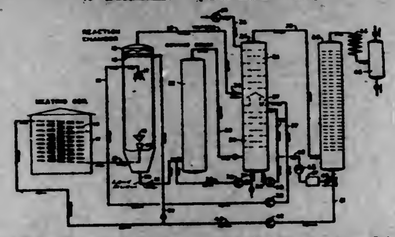
7. In an indented fruit handling machine, a frame having opposite parallel side members, a fruit conveyor movable over a path and having a plurality of article receptacles arranged serially, each receptacle having an opening in the bottom thereof, a series of pins carried by said conveyor, each pin being arranged in an immediate and cooperative association with one of said receptacles and being adapted to be projected through an opening in a receptacle bottom and having its projected end formed to engage positively in a driving engagement the surface of an article in said receptacle, a second frame mounted on only one of said side members and spaced from the other of said side members, a plurality of rollers on said second frame, and an endless belt adapted to be positioned over said second frame on said rollers to project each pin into an aperture and rotate said pin in said aperture, and means for rotating a pin while projected.

2,406,312
CRACKING AND COKING OF HYDROCARBON OILS
Joseph Mason Barren, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 28, 1942, Serial No. 467,176
4 Claims. (Cl. 196—49)



1. In the combination cracking and coking of hydrocarbon oils the process that comprises passing a condensate stock through a heating coil wherein it is subjected to a high cracking temperature, delivering the heated stream into the lower portion of a vertically disposed reaction chamber wherein separation of vapors from liquid residue takes place, introducing a stream of heated residual stock into an upper portion of the reaction chamber, subjecting resultant down-flowing liquid and upwardly rising vapors to countercurrent contact in an unobstructed zone within the reaction chamber at cracking temperatures of upwards of 900° F. under 200–600 pounds pressure, withdrawing the separated vapors from an upper portion of the reaction chamber at a temperature of the order of 900° F., withdrawing the liquid residue from the lower portion thereof at a temperature of the order of 920° F. at a rate adequate to prevent the accumulation of liquid residue therein, delivering the withdrawn residue to a coking zone wherein the pressure is reduced to a low pressure not exceeding about 50 pounds and wherein a temperature approximating 850° F. is maintained by means of the hot residue introduced to thereby effect coking solely by the contained heat of the residue, subjecting said vapors withdrawn from the reaction chamber to fractionation to separate lighter products from higher boiling reflux condensate, cycling said reflux condensate to the aforesaid heating coil, subjecting evolved vapors from the coking zone to dephlegmation with a residual charging stock to form a resultant mixture of reflux condensate and unvaporized residual charging stock, passing said mixture of reflux condensate and unvaporized residual charging stock through a heating coil wherein it is heated to a temperature of the order of 800–900° F. and directing the heated mixture to the upper portion of the aforesaid reaction chamber as the residual stock introduced therein.

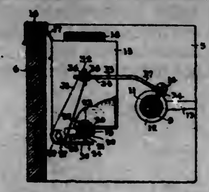
2,406,313
CRACKING AND COKING HYDROCARBON OILS
Joseph Mason Barren, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 28, 1942, Serial No. 467,177
2 Claims. (Cl. 196—49)



1. In the combination cracking and coking of hydrocarbon oils the process that comprises passing condensate oil formed as hereinafter specified through a heating coil wherein it is subjected to a high cracking temperature, delivering the heated stream into the lower portion of a vertically disposed reaction chamber maintained under superatmospheric pressure and wherein separation of vapors from liquid residue takes place, introducing a stream of high boiling oil formed as hereinafter specified into the upper portion of the reaction chamber, subjecting resultant downflowing liquid and upwardly rising vapors to countercurrent contact in an unobstructed zone within the reaction chamber while maintained at temperatures of the order of upwards of 900° F. by reason of the heated entering streams, maintaining a temperature approximating 920–925° F. in the lower portion of the reaction chamber, withdrawing the separated vapors from the upper portion of the reaction chamber, withdrawing the liquid residue therefrom at a temperature approximating 920–925° F. and at a rate adequate to prevent the accumulation of liquid residue therein, delivering the withdrawn residue to a coking zone wherein the pressure is reduced and wherein coking is effected solely by the contained heat of the residue, subjecting the evolved vapors from the coking zone to a separate primary dephlegmation in a primary dephlegmating zone maintained at temperatures of about 790–810° F. to form a heavy tarry condensate constituting a synthetic fuel oil, combining the resultant dephlegmated vapors with the vapors separately withdrawn from the reaction chamber and subjecting the combined vapors to dephlegmation with a residual charging stock to form a resultant mixture of reflux condensate and unvaporized charging stock collected at a temperature approximating 800–810° F., subjecting the latter dephlegmated vapors to further dephlegmation to separate reflux condensate from lower boiling products, directing said reflux condensate to the aforesaid heating coil, and utilizing said mixture of reflux condensate and unvaporized charging stock as said high boiling oil being introduced into the upper portion of the reaction chamber.

2,406,314
DEODORANT DISPENSING DEVICE
Stephen J. Benn, Philadelphia, Pa.
Application November 17, 1943, Serial No. 510,676
2 Claims. (Cl. 4—227)

1. The combination of a flush tank provided with the usual flush valve actuating lever, with a reservoir suspended therein, said reservoir provided with a discharge opening in the lower portion thereof, a discharge valve normally closing said opening, a stem on said valve extending below the reservoir, a bell crank lever pivotally mounted on said reservoir, and comprising an arm



extending beneath said valve stem and an arm angularly disposed with relation to the first said arm, and a connection between the last said arm and the flush valve actuating lever.

2,406,315
CLIP
Ora G. Blocher, Wayne, Mich., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation, a corporation of Delaware
Application January 6, 1943, Serial No. 471,401
4 Claims. (Cl. 189—35)

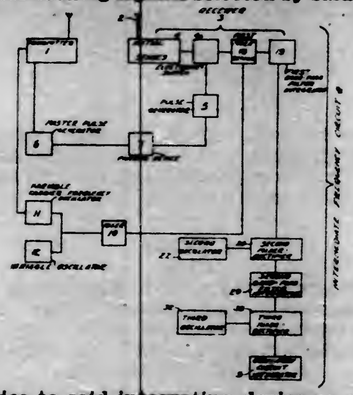


1. A clip designed to connect a structural element having along one margin thereof an outwardly extending flange with a hole therein intermediate the side margins thereof and a second elongated structural element extending across the first mentioned element and having a pair of oppositely extending side flanges adjacent the flange of said first mentioned element, and comprising an elongated body part adapted to fit between the flange of said first mentioned element and the side flanges of the second element and having at its ends and adjacent one face thereof a pair of opposed inwardly extending preformed hooks for surrounding, gripping and slidably receiving the side flanges of said second element, and also having along one side margin and adjacent its other face a shoulder for engaging the edge of the flange of said first mentioned element, and an angularly disposed tongue positioned adjacent said other face of the body part, extending in the direction of the shoulder, having the end thereof nearer the shoulder free and shaped substantially conformably to the hole, and adapted to extend into said hole and also cooperate with the shoulder in such manner as to hold the clip in substantially rigidly connected relation with the flange of said first mentioned element, the other side margin of the body part being free or unencumbered in order to permit of ready application of said body part, shoulder and tongue to the flange of said first mentioned element by sliding of the clip relatively to said flange.

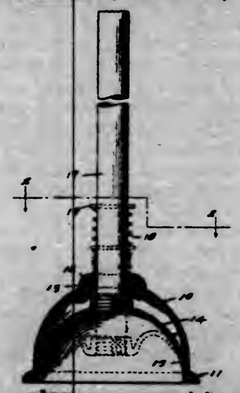
2,406,316
RADIO PULSE SYSTEM WITH INTERFERENCE ELIMINATOR
Alan Dower Blumlein, Ealing, London W. 5, and Eric Lawrence Casling White, Hillingdon, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application June 13, 1942, Serial No. 446,970
In Great Britain December 1, 1939
7 Claims. (Cl. 250—1)

1. Apparatus for observing desired recurrent oscillatory signals in a train of signals including

undesired random signals comprising an integrating device adapted to have oscillations set up therein, electronic switching means for selecting signals from said train of signals during spaced time intervals each coinciding with at least a portion of said desired signals, means for feeding said train of signals to said switching means and means for feeding signals selected by said switching device to said integrating device so as to set up oscillations therein, the oscillations set up by successive oscillatory signals adding in phase whereby said oscillations are integrated and the minimum value of the ratio of the amplitude of said desired and undesired signals during said time intervals is increased.



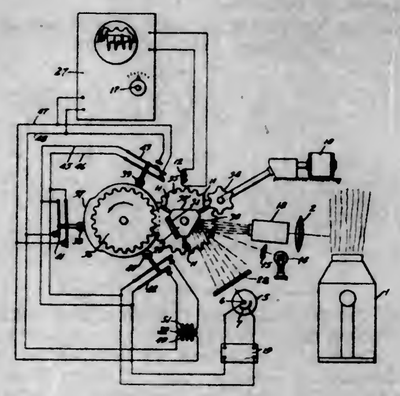
2,406,317
DOUBLE SUCTION PLUNGER
Gust Bonde, Marinette, Wis.
Application April 16, 1945, Serial No. 588,615
2 Claims. (Cl. 4—255)



1. A suction plunger comprising a resilient outer cup having an opening and a boss about said opening, an inner cup secured at its lower end to said outer cup, said inner cup having an opening aligning with the opening of said outer cup, and a plunger rod secured to said inner cup and slidably engaging through said first opening.

2,406,318
SUPERVISORY APPARATUS
Porter H. Brace, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application March 4, 1941, Serial No. 381,672. Divided and this application December 3, 1942, Serial No. 467,731
5 Claims. (Cl. 88—14)

5. In an apparatus for analyzing combustion processes by means of radiation characteristics, an optical system adapted to transmit radiation along a path which embodies means for dispersing radiation into a spectrum beam, a source of



standard radiation, a radiation-responsive device in said path and means for alternately causing radiation from said source to strike said device and said beam to be swept across said device.

2,406,319
INSULATED ELECTRICAL CONDUCTOR
Lester A. Brooks, Stamford, Vt., and Mathew Naszewski, Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
No Drawing. Application November 19, 1943, Serial No. 510,918
10 Claims. (Cl. 117—128.4)

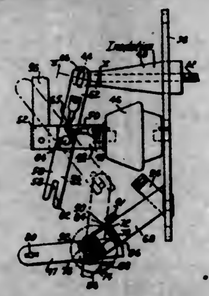
1. An electrical conductor insulated with a dielectric composition comprising a polymer of a dihalogenated styrene, the halogen atoms being substituted on adjacent positions in the styrene ring.

2,406,320
RECOGNITION LIGHT SYSTEM
Lewis W. Chubb, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 15, 1943, Serial No. 502,501
8 Claims. (Cl. 88—1)



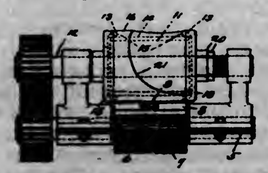
1. In combination, means for producing a beam of light made up of a polarized light component having other than a line spectrum and an unpolarized light component having a line spectrum, a receiver adapted to be positioned in the path of said beam and comprising polarization analyzing means effective to separate at least a portion of said unpolarized light component from said beam, a screen having thereon lines corresponding to the spectrum produced from a preselected light having a line spectrum, and means for producing the spectrum of said separated portion of said unpolarized light component on said screen for comparison with said lines.

2,406,321
SWITCHING DEVICE
William H. Cuttino, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1943, Serial No. 480,945
9 Claims. (Cl. 200—5)



1. Switching apparatus of the type described comprising, main switch means having spaced insulated terminals, a contact mounted for movement to and away from bridging relation with respect to said terminals, a grounding contact mounted for movement in a path intersecting the movable contact of said main switch at least in its closed circuit position, and actuating means for said grounding contact, whereby upon continued movement of said actuating means in a direction to open the main switch circuit, said grounding contact is first moved to engage the movable contact of said main switch means and thereafter the latter is moved to an open circuit position by said grounding contact.

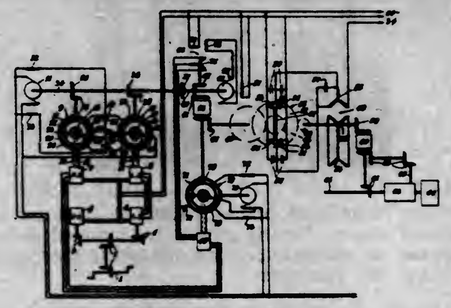
2,406,322
MATRIX FILLER
Andrew W. Davis, Madison, Ill.
Application May 15, 1945, Serial No. 593,950
4 Claims. (Cl. 12—63)



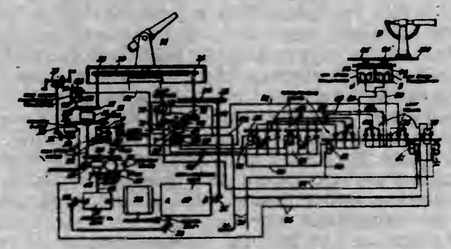
1. The combination with a matrix roll and matrix roll shaft of a counter stiffener skiving machine, of a matrix filler comprising wide semicircular filler sections, adapted to fit around the matrix roll, said matrix roll having cut-out portions, extensions on the ends of the filler sections adapted to fit into the cut-out portions of the matrix roll, and disks fitted on the matrix roll shaft adapted to engage said filler sections, securing the filler sections on the matrix roll.

2,406,323
REMOTE CONTROL APPARATUS
Arthur P. Davis, New York, and George Agins, Brooklyn, N. Y., assignors to Arma Corporation, a corporation of New York
Application May 6, 1937, Serial No. 141,189
11 Claims. (Cl. 173—236)

1. In a system for controlling a controlled element with a controlling element, the combination of power means for driving said controlled element, a control member controlling the speed and direction of movement of said power means, a reversible control motor, operative connections between said control motor and said member, a reversing switch for controlling said control motor and having two sets of contacts, operative connections between said control motor and one set of said contacts, operative connections between said controlling element and said other set of contacts, a differential interposed in said connections between said controlling element and said other set of contacts, and operative connections between said differential and said controlled element.



2,406,324
GUN CONTROL SYSTEM
Arthur Pattison Davis, New York, N. Y., assignor to Arma Corporation, a corporation of New York
Application September 6, 1933, Serial No. 688,285
9 Claims. (Cl. 89—41)

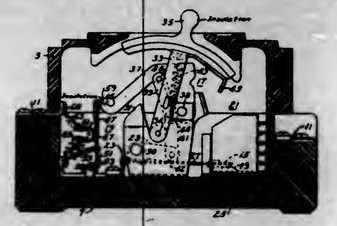


3. In a control system for reproducing motion the combination with a director element and a follower, of a source of power for the drive of said follower and means for controlling said power comprising differential means for comparing the relative speeds of the director and follower and moving a control member at a speed proportional to the difference in said speeds, differential means for modifying the motion of said member by a predtermined variable directly proportional to the difference in said speeds, and mechanical means for applying said modified motion to control the torque applied to said follower by said drive.

2,406,325
CIRCUIT INTERRUPTER
Hiller D. Dorfman, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 29, 1942, Serial No. 440,934
11 Claims. (Cl. 200—116)

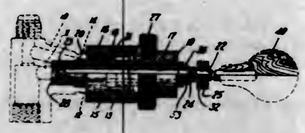
1. A circuit breaker comprising relatively movable contacts, operating mechanism for said contacts, a trip device including a generally U-shaped

current responsive bimetal element disposed to deflect when heated a predetermined amount, and resilient support means for independently sup-



porting both ends of said bimetal element, said support means flexing when the bimetal deflects to cause an operation of the operating mechanism to open the contacts.

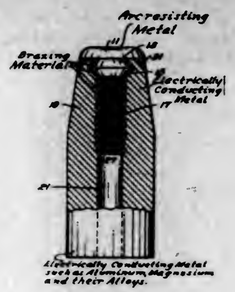
2,406,326
TOOL
Herman J. Engbrecht, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of California
Application January 19, 1944, Serial No. 518,839
5 Claims. (Cl. 90—12.5)



1. A tool for machining a body having a cylindrical bore and screw threads in at least approximately concentric relation to said bore, to produce in said body a surface of revolution in approximate axial alignment with said bore, said tool comprising: a hollow guide dimensioned to enter said bore; a rotatable tool accurately guided by said guide for rotary and longitudinal movement coaxial with said guide; and means for positively positioning said guide within said bore, comprising an expansible annular member surrounding said guide and an annular wedge member aligned with and relatively axially moveable with respect to said guide, at least one of said members having a conical surface cooperative with the other member to expand said expansible annular member against said bore in response to relative axial movement of said members toward each other, and means for effecting said relative axial movement including means for limiting axial movement of said expansible member into said bore, and nut means adapted to engage the threads of said body, for moving said wedge member against said expansible member.

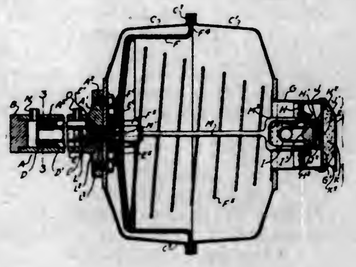
2,406,327
CONTACT STRUCTURE
Robert E. Friedrich, Pittsburgh 16, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 26, 1942, Serial No. 470,159
6 Claims. (Cl. 200—166)

1. A contact assembly comprising a contact member of arc-resisting material, a screw having a flanged head to which said contact member is brazed, said flanged head together with a part of said contact member forming an annular projection, a support member having an opening in which said screw and a part of said contact members are threadedly mounted, a portion of said



support member embracing said projection to hold the parts together.

2,406,328
POWER BRAKE MECHANISM
Ralph R. Gunderson, Chicago, Ill.
Application September 27, 1943, Serial No. 503,975
4 Claims. (Cl. 60—54.5)



1. In a hydraulic brake system, a power unit comprising a main cylinder adapted to be connected at one end to a pedal-actuated master cylinder and at its opposite end to a wheel cylinder, a power piston dividing said main cylinder into a master cylinder side and a wheel cylinder side, a booster motor mounted on one end of the main cylinder, said booster motor having a movable wall therein, a tubular piston rod connecting said power piston with said movable wall, said tubular piston rod forming a movable cylinder communicating with the master cylinder side of said power piston, a valve for controlling said booster motor, and a small piston within said movable cylinder operatively connected to said valve, said small piston being actuated by fluid pressure on the master cylinder side of the power piston and the effective area of the master cylinder side of said power piston being reduced by the area of said small piston in all positions.

2,406,329
AMINO-CARBOXYLIC ACID ESTERS OF MONOGLYCERIDES
Benjamin R. Harris, Chicago, Ill.
No Drawing. Application February 5, 1941, Serial No. 377,487
3 Claims. (Cl. 260—404)

1. Alpha-amino isobutyric acid esters of monoglycerides.

2,406,330
FOUNTAIN PEN FILLING UNIT
Walter J. Heagney, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application July 26, 1944, Serial No. 546,589
15 Claims. (Cl. 120—47)



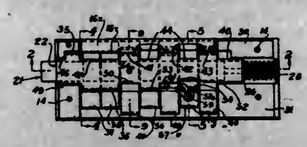
1. A fountain pen filling unit comprising a body member, a plunger slidably mounted in said body member, an extensible tubular diaphragm having a closed end and an open end sealed to said body member and enclosing one end of said plunger, said plunger bearing against the closed end of said diaphragm for extending said diaphragm by movement of the plunger, and a spring within and substantially coextensive with said diaphragm when the diaphragm is extended and extending about said plunger, said spring being anchored at one end to said body member and tending to contract said diaphragm and move said plunger.

2,406,331
CONTAINER AND CLOSURE
Roderick William Hoag, Melrose, Mass.
Application February 9, 1943, Serial No. 475,241
2 Claims. (Cl. 215—95)



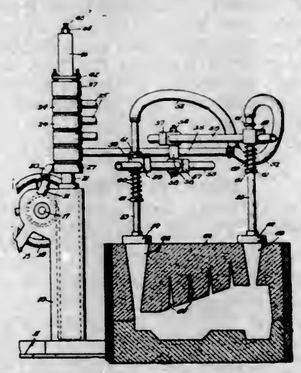
2. A container in combination with a closure therefor which comprises a flexible cover element frictionally secured to the said container by an annular, substantially flat collar made from a flat sheet of resilient material and having a central opening and a plurality of radially directed ribs extending outwardly from said central opening and a single cut extending outwardly from the said central opening, and within the outer perimeter of the collar, another cut intersected by the cut extending from the central opening, said collar being positioned with the central portion of the cover element projecting through the central opening in the collar.

2,406,332
KEYLESS LOCK
William W. Hurtel, Los Angeles, Calif.
Application April 25, 1944, Serial No. 532,641
5 Claims. (Cl. 70—298)



1. In a lock of the kind described, a casing, an elongated at times longitudinally movable locking bolt carrier mounted in said casing, a locking bolt carried by said carrier and independently movable in a lengthwise relation thereto, said locking bolt being given its independent movement by closing the door, said carrier consisting of rigid sheet material having oppositely projecting side flanges to form tumbler engaging stops, and a series of elongated tumblers the individuals of which extend in a crosswise adjacent relation to said carrier to cooperate with its stops and are supported by said casing for selective manual longitudinal movement to adjust them to release said carrier to permit of its retraction together with the locking bolt which it carries.

2,406,333
MACHINE FOR APPLYING PNEUMATIC PRESSURE TO CAST METALS
Emil O. Jensen, Chicago, Ill.
Application October 20, 1943, Serial No. 506,973
17 Claims. (Cl. 22—72)



1. A pressure casting machine comprising in combination a supporting member, a plurality of heads rotatively mounted on the member, an adjustable supporting pipe extending from each head, a valved distributing hose supported by each pipe, means for raising and lowering the supporting member and all of the distributing hoses, and a common source of pressure for separately distributing pressure to the different hoses with their supporting pipes at different angles to the said supporting member.

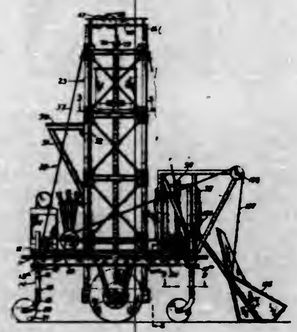
2,406,334
BRACKET FOR SUPPORTING OXYGEN BOTTLES OR THE LIKE
William C. Keller and Leo F. Fuday, San Diego, Calif., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application June 21, 1944, Serial No. 541,360
2 Claims. (Cl. 248—311)



1. As a new article of manufacture, a bracket designed releasably to support a container having substantially hemispherical upper and lower

ends and comprising an upstanding substantially rigid back part adapted to fit against and be connected to a supporting structure, a substantially rigid dished or downwardly bulged bottom part connected to, and projecting forwards from, the lower end of the back part, a plurality of laterally spaced upstanding and comparatively thin side segments formed of such comparatively stiff material that they tend to retain a predetermined shape, arranged in an arcuate series in front of the back part and so as to define with the latter and the bottom part an open top receptacle for snugly receiving and supporting the container, bulged or curved outwards longitudinally and transversely thereof, having the lower extremities thereof substantially straight or flat and joined to the subjacent marginal portions of the bottom part and their upper extremities extending outwards, downwards and inwards to form tubular open ended lips, and adapted to flex inwards and outwards, and an elongated elastic element extending through the lips, having the ends thereof connected to the upper end of the back part, and serving to urge said side segments inwards.

2,406,335
MOBILE TOWER
Ira J. Kuert, Los Angeles, Calif.
Application July 31, 1944, Serial No. 547,491
3 Claims. (Cl. 189—11)



1. A tower construction including a platform having adjustable transporting wheels at each end, said platform member having a well disposed between the sides and ends of the platform, shaft means mounted beneath the platform and extending transversely of the platform and being located intermediate the sides of said well, supporting wheels mounted on the shaft means, a tower frame adjacent to and below the well, said tower frame including longitudinal and transverse members, means whereby the shaft means pivotally supports the tower frame, and a tower on said tower frame and extending upwardly through the well.

2,406,336
WAXES
Lazslo Auer, South Orange, N. J.
No Drawing. Application August 21, 1942, Serial No. 455,613
10 Claims. (Cl. 106—10)

1. The process of modifying at least one of the following physical properties of ester-type waxes: consistency, melting point, rubbing characteristics, which process comprises dispersing in the wax from 0.5% to 10% of a compound having within the molecule an acidic inorganic residue and an organic residue and heating the wax to a temperature between about 100° C. and the decomposition point of the wax, until the wax manifests properties which are substantially different in at least one of the respects herein named, as compared to the properties of a similar material subjected to the same treatment but in absence of the treating compound, said treating compound being a member of the class consisting of aromatic sulfonic acids, aromatic sulfochlorides, and nitro-substituted aromatic compounds, capable of yielding an inorganic acid which is a member of the group consisting of sulfuric acid, chlorsulfonic acid and nitric acid under the conditions of the treatment.

2,406,337
MODIFICATION OF FATTY OILS
Lazslo Auer, South Orange, N. J.
No Drawing. Application January 23, 1943, Serial No. 473,396
22 Claims. (Cl. 260—407)

6. A process for treating fatty oils having drying properties, to improve their film-forming characteristics when used as components of surface coating materials, which process comprises incorporating in the oil up to 30% of a polyhydroxy benzene as the sole active treating agent, and heating the mixture at a temperature between about 75° C. and about 350° C. but not above the boiling or decomposition point of the oil, whichever is lower, for at least 30 minutes.

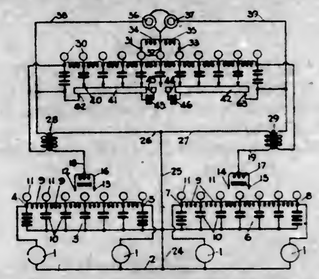
2,406,338
ROSIN TREATMENT
Lazslo Auer, South Orange, N. J.
No Drawing. Application October 27, 1943, Serial No. 507,895
3 Claims. (Cl. 260—106)

1. A process for treating rosin, which process consists in heating the rosin to a temperature of at least 250° C. but not above about 350° C. under conditions promoting decarboxylation, and circulating sulphur dioxide gas into, through, and out of the reaction vessel during said heating.

2,406,339
PRODUCTION OF RESINOUS MATERIALS
Darwin E. Badertscher and Henry G. Berger, Woodbury, and Richard B. Bishop, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application October 30, 1942, Serial No. 463,894
7 Claims. (Cl. 260—51)

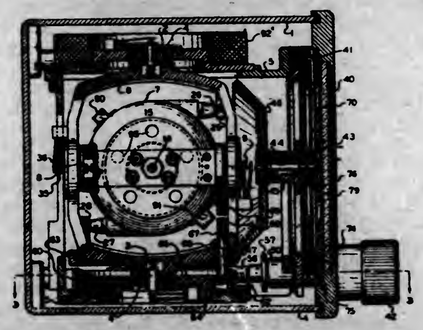
1. In a process for the production of a resinous product by the condensation, in the presence of an acid condensing agent, of formaldehyde and a material selected from the group consisting of phenols and cyclohexanol, the improvement affording a substantially reduced reaction time and a light colored product which comprises condensing said formaldehyde and said material in the presence of hydrogen fluoride whereby the reaction time is substantially decreased as compared with other acid condensation catalysts without substantial darkening of the product.

2,406,340
ELECTRIC COMPENSATOR
Laurence Batchelder, Cambridge, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Original application October 12, 1939, Serial No. 299,180, now abandoned. Divided and this application December 5, 1940, Serial No. 368,656
3 Claims. (Cl. 177—386)



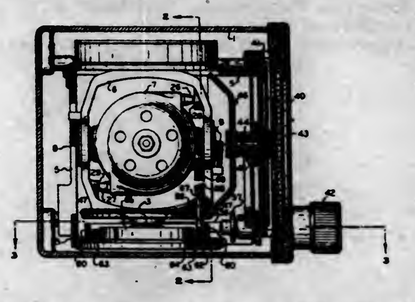
1. In an electric compensator having an electric retardation line formed of a plurality of recurrent sections of inductive series elements and capacitive shunt elements, means for effectively connecting to the electrical center of one of said inductive elements comprising a center-tapped auto transformer and means for connecting the same in parallel with said inductance element.

2,406,341
DIRECTIONAL GYROSCOPE
Lennox F. Beach and Orland E. Esval, Merrick, and Arthur W. Lane, Freeport, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application February 20, 1942, Serial No. 431,704
7 Claims. (Cl. 33—204)



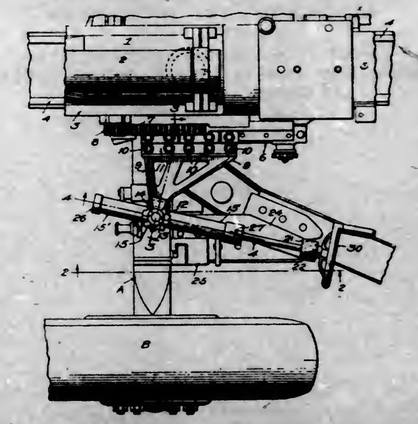
1. In a locking and resetting mechanism for directional gyroscopes, the combination with a directional gyroscope comprising a gyroscopic rotor, a bearing frame therefor, a vertical ring having a vertical axis about which it may rotate and in which said frame is mounted to pivot on a horizontal axis, of a rotatably mounted direction indicating member, means for operatively connecting said card to be rotated by said vertical ring, a slip friction connection in said connecting means between the member and ring whereby the member may be reset, normally ineffective means for locking the directional gyroscope to prevent rotation of the ring about the vertical axis, and means for simultaneously operating said locking means and effecting a resetting movement of said member whereby to obtain movement of said member independently of said vertical ring through the slip friction connection.

2,406,342
LOCKING MECHANISM FOR DIRECTIONAL GYROSCOPES
Lennox F. Beach, Port Washington, Orland E. Esval, Huntington, and Arthur W. Lane, Roosevelt, N. Y., assignors to Sperry Gyroscope Company, Inc., a corporation of New York
Continuation of application Serial No. 459,804, September 26, 1942, which is a division of application Serial No. 431,704, February 20, 1942. This application January 7, 1944, Serial No. 517,320
10 Claims. (Cl. 74—5)



1. A locking mechanism for directional gyroscopes comprising, in combination, a gyro rotor, a bearing frame therefor, a vertical ring on which the frame is mounted to pivot about a horizontal axis, means for locking the frame from pivotal movement comprising a sector gear fixedly mounted on said frame and a normally ineffectively positioned toothed piece movably mounted on said vertical ring, and means for moving said toothed piece to an effective locking position in which the piece engages the sector gear.

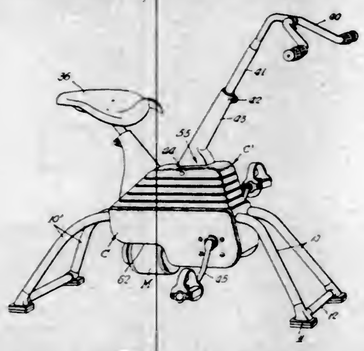
2,406,343
NUT AND SCREW MECHANISM
Orie L. Beardsley, Washington, D. C.
Application June 21, 1944, Serial No. 541,406
5 Claims. (Cl. 89—41)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a gun having a bottom carriage and a top carriage pivoted thereon for azimuth movement, a mechanism for traversing the gun, comprising a laterally extending bracket rigidly secured to the top carriage, a swivel device carried by said bracket, an elongated nut rigidly secured

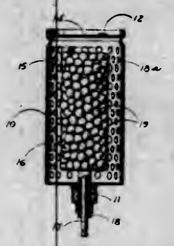
to the swivel device, a screw having threads wholly inclosed in the nut and accurately matching said threads and cooperating with them to swing the nut on the swivel device, a second swivel device mounted independently of the first, a shaft connected with the screw and having a bearing in the second swivel device, and means for rotating the screw to traverse the gun.

2,406,344
EXERCISING MACHINE
Gordon Bergfors, Yonkers, N. Y., assignor to Exercycle Corporation, New York, N. Y., a corporation of New York
Application April 24, 1942, Serial No. 440,294
15 Claims. (Cl. 128—33)



1. An exercising machine, comprising a frame having a seat mounted thereon, a handle member, a carrying bar therefor pivoted to said frame, pedals, an axle carrying the same, and a transmission between said pedal axle and said handle carrying bar, said transmission including a link pivoted to said bar near the pivot mount thereof and a short crank for the other end of said link operated from said axle and imparting substantially harmonic motion to said handle member.

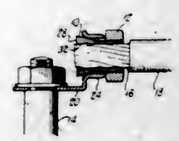
2,406,345
ELECTRODE AND METHOD OF MAKING SAME
Joseph B. Brennan, Bratenahl, Ohio
Application April 15, 1942, Serial No. 439,141
14 Claims. (Cl. 175—315)



1. An electrode for electrolytic devices comprising a mass composed of a plurality of pellets of insulating material of substantially uniform size, the surfaces of said pellets being coated with conductive metallic layers composed of minute particles, the pellets being many times larger than said particles, and a terminal member in circuit with the layers on substantially all of said pellets.

10. The method of making electrodes for electrolytic devices which includes the steps of providing a plurality of pellets of base material of substantially uniform size, spraying the surfaces of said pellets with finely divided particles of molten metal to provide a conductive layer thereon, and assembling a plurality of said pellets with the layers on substantially all of said pellets in circuit with each other.

2,406,346
ELECTRICAL CONNECTOR
Stephen N. Buchanan, Washington, D. C., assignor to Aircraft-Marine Products, Inc., Elizabeth, N. J., a corporation of New Jersey
Application September 11, 1943, Serial No. 501,909
1 Claim. (Cl. 173—269)

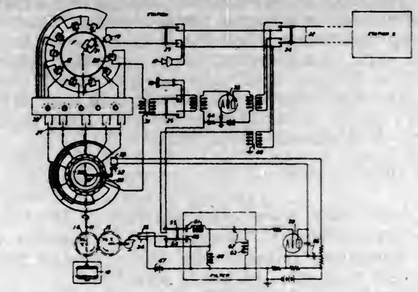


A connector for wire and the like which comprises: a dihedral member of dead soft, malleable sheet copper or the like having parallel sides normal to the dihedral angle adapted to receive a hand wrench, and having a female opening through one of the angularly related portions thereof adapted to receive a collet; a collet having an opening therethrough adapted to fit over the wire or like member to which it is to be connected and having a smaller externally threaded end portion of substantially uniform external diameter fitted into and extending through said female opening in a direction away from the other angularly related portion, the opposite end of said collet tapering to an external diameter substantially larger than said female opening and to substantially increased wall thickness, the walls of said tapering end being slotted to permit its compression to smaller diameter but the width of the slots being limited to less than would permit said tapering end to be drawn completely into the female opening, the interior surface of the tapering end being serrated for secure engagement with the wire, and the interior surface at the smaller end being smooth and smoothly rounded at its edge; and a nut threaded onto said smaller end of the collet and bearing against said female member whereby to draw said tapering end partially into the female opening and thereby to reduce its internal diameter by closing its slots.

2,406,347
SPEECH PRIVACY COMMUNICATION
Frederick G. Buhrendorf, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1941, Serial No. 401,908
5 Claims. (Cl. 179—1.5)

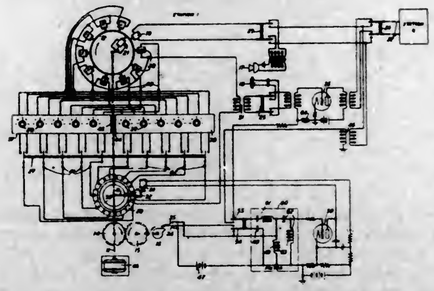
1. In a start-stop distributor, a plurality of equal length segments, a brush rotating over said segments, an additional segment shorter than said first-mentioned segments, means to stop the brush on said short segment, means to release the brush to start on its next revolution, means to produce a start impulse to operate said release

means, and means to time said impulse to cause the total travel time plus rest time of the brush



on said short segment to be the same as the travel time across one of said equal length segments.

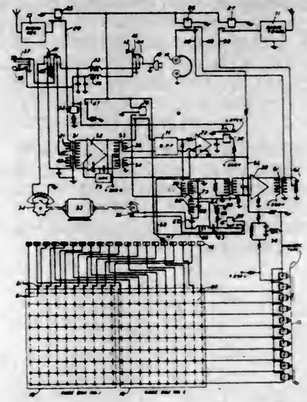
2,406,348
SECRET TELEPHONY
Frederick G. Buhrendorf, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,111
20 Claims. (Cl. 179—1.5)



1. The method of speech transmission with privacy comprising transmitting from a transmitting point speech waves occurring in successive time intervals divided into short segments of which the first N segments in each time interval are sent in successive time order different from their normal order of occurrence and in accordance with a preassigned code and the next N segments in each time interval are sent in accordance with a different code, and at a receiving point restoring the transmitting segments to their normal order to receive the message.

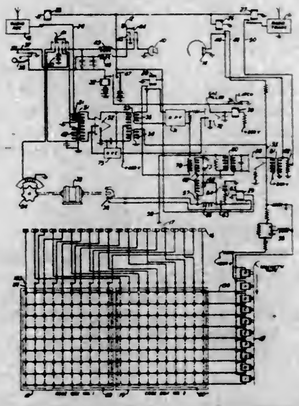
2,406,349
SECRET SIGNALING
Frederick G. Buhrendorf, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 10, 1942, Serial No. 450,418
14 Claims. (Cl. 179—1.5)

1. In a secrecy system, means for recording speech message waves on a moving strip, reproducers spaced along the strip, a signaling channel, a rotary distributor having a brush movable with respect to distributor segments comprised of interleaved sets, for switching said reproducers one at a time in circuit with said signaling channel, the motion of the strip being so related to the motion of the distributor that a point on the strip moves from one reproducer to the next in the time taken by the brush to traverse one distributor segment of each interleaved set, and



switching means for variably connecting any one of said reproducers to any one of said distributor segments of either set.

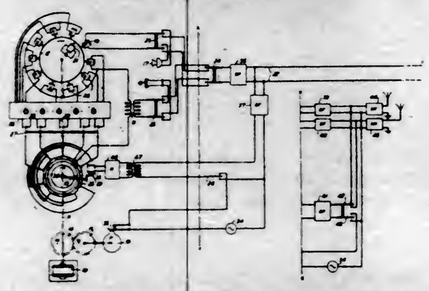
2,406,350
SWITCHING MECHANISM FOR SIGNAL SYSTEMS
Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 25, 1944, Serial No. 546,447
14 Claims. (Cl. 179—1.5)



1. In combination in apparatus for interconnecting signal circuits under control of a plurality of discrete cards perforated in accordance with preselected codes, a source of signals, a first group of circuits connected in a fixed manner to said signal source, a transmission line, a second group of circuits connected in a fixed manner to said line, and switching means for varyingly interconnecting said first and second circuit groups to cause the signals to be applied to said second circuit group and thereby to said line in an order which is different from the order in which the signals appear in said first circuit group, comprising a plurality of cards each of which embodies perforations of two different sizes arranged in accordance with a preselected code, a plurality of normally opened pairs of contacts connected to both said first and second circuit groups and associated operatively with the

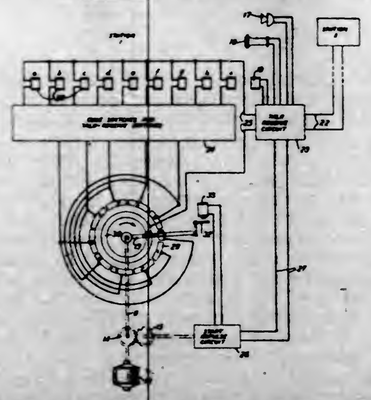
perforations of said cards, and means for selecting discrete cards and causing them to close different groups of said contacts in accordance with the smaller perforations of each card and thereby to interconnect changeably said first and second circuit groups for varying the order in which said signals are applied to said line.

2,406,351
SPEECH PRIVACY SYSTEM
Walter A. MacNair, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 8, 1941, Serial No. 414,054
4 Claims. (Cl. 179—1.5)



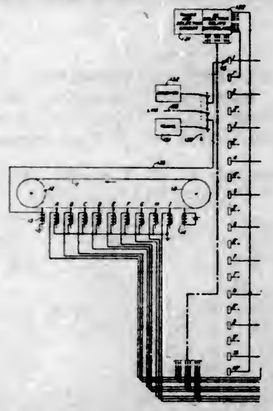
1. A two-way signal terminal comprising means to record signals for transmission and means to record received signals, distributor means for breaking up the recorded signal before transmission to render transmission private, said distributor means operating to restore received broken up signals to normal for intelligible reception, start-stop mechanism for said distributor including a latch tripping magnet, means coordinated with said distributor for energizing said tripping magnet and simultaneously sending out a start impulse once each revolution of said distributor means, and means to delay the energizing of said tripping magnet and the sending of said start impulse relative to the movement of said recording means.

2,406,352
TELEPHONE PRIVACY
Wilden A. Munson, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1942, Serial No. 430,370
9 Claims. (Cl. 179—1.5)



1. In a rotary distributor, a brush arm rotatable with respect to distributor segments, a stop therefor, timing means defining the starting time for each rotation of said brush arm, means to interpose said stop in the path of said brush arm a given interval in advance of the normal starting time representing a small fraction of a rotational period, and means controlled by said timing means to remove said stop at the end of said small interval whereby said brush arm is stopped only if it is in abnormally advanced phase at the instant of interposing said stop.

2,406,353
SECRET SIGNALING
Oscar Myers, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 17, 1943, Serial No. 495,126
11 Claims. (Cl. 179—1.5)



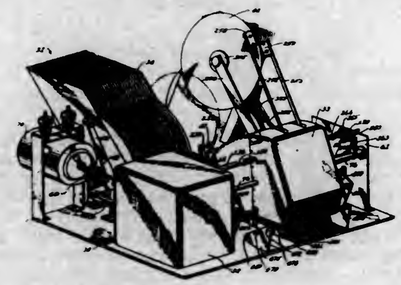
1. In a speech privacy system in which different speech fragments are delayed in transmission by different amounts of time, a plurality of individually actuable devices each determining a different transmission delay time, a circuit and circuit contact for actuating each device, said contacts being arranged in pairs, the devices controlled by the contacts constituting any one pair determining respective transmission delays the sum of which is a constant, and means selectively operating said pairs of contacts.

2,406,354
WRAPPING WIRE REINFORCING RETAINER LOCK
John R. Connelly and Stanley W. Fish, Springfield, Mass.
Application August 31, 1944, Serial No. 552,114
4 Claims. (Cl. 217—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A wrapping wire retainer device of the class described comprising, a body member including a pair of angularly-disposed wing parts, the vertex portion of said body member being provided with a cut-out which extends into each of said wing parts, each of said wing parts having a pair of spaced parallel slits extending thereinto from the opposite ends of said cut-out thereby forming a pair of opposed tongue-like portions, said cut-out being arranged to receive a wrapping wire therein in overlying relationship to said tongue portions, said tongue-like portions being constructed and arranged to permit inward deflections thereof under the force exerted by the said wrapping wire.

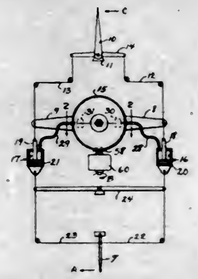
2,406,355
AUTOMATIC PHONOGRAPH
Joseph A. Darwin, East Orange, and Robert Robertson, Kearny, N. J.; said Robertson assignor to said Darwin
Application December 17, 1940, Serial No. 370,530
48 Claims. (Cl. 274—10)



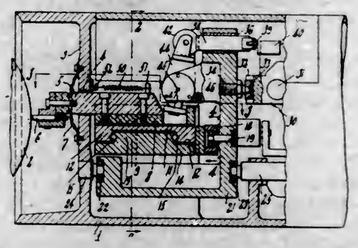
1. In an automatic phonograph, record storing means and record playing means, one of said means being movable relative to the other for record selection, drive means for the movable means, means controlling said drive means for automatic drive of the movable means by equal steps, variably settable means controlling said drive means for automatic drive of the movable means by said equal or by variable steps, transfer means operable to move a record from the storing means for playing and to return the record, means automatically operated after each step for causing said transfer means to move the selected record from said storage means for the playing thereof, means for appropriately rotating the record while removed from said storing means for the playing of both sides thereof, pickup means, means for engaging said pickup means with either side or successively with both sides of the removed record when the record is appropriately rotated, means operable in dependence upon the setting of said variably settable means to cause the playing of the record on one or the other side only or successively on both sides thereof while the record remains removed from said storing means, and means automatically operated after the playing of either side of the record or only when both sides of the record have been successively played for causing the transfer means to return the record.

2,406,356
ROTARY ELECTRICAL BOOST DEVICE FOR REDUCING CONTROL FORCES ON AIRPLANES
Jess S. W. Davidsen, Mountain View, Calif.
Application June 16, 1942, Serial No. 447,270
3 Claims. (Cl. 244—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a device for supplying an assisting force to aid in positioning a control surface of an aircraft, the combination comprising, manually actuated means for transmitting a manual force to said control surface to effect motion thereof, a spindle, a key carried by said spindle, means connecting said spindle in said manual force-transmitting means to supply said assisting force upon rotation of said spindle, a pair of drums mounted to rotate on said spindle, means for rotating said drums in opposite directions, a plate member for each of said drums, each said plate member including an arcuately-shaped keyway for cooperation with said key, said keyways extending in opposite directions from said key, means carried by each of said plate members to frictionally couple it to the drum member associated therewith, resilient means interconnecting said plate members in such manner as to hold the driving face of each of said keyways against said key, and means connected in said manual force transmitting means for actuating said friction coupling means.

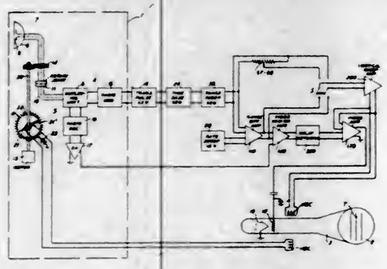


2,406,357
GRINDING WHEEL TRUING MECHANISM
Lee M. Davis, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application May 23, 1945, Serial No. 595,369
2 Claims. (Cl. 125—11)



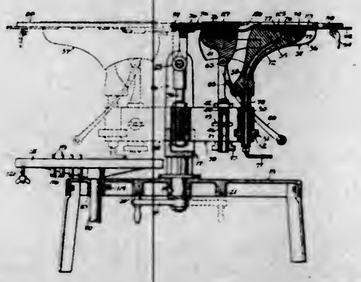
1. A wheel truing device comprising a support, a first slide mounted for rectilinear motion on said support, a second slide mounted on said first slide for rectilinear motion transverse to the motion of said first slide, a truing device carried by said second slide, a member pivoted to said support to swing in a plane parallel to the direction of motion of one of said slides and operatively connected to said one slide, an element slidably carried by said member to move transverse to said plane, a stationary cam along which said element moves as said member swings on its pivot, a follower for said cam carried by said element, a lever pivoted to said member on an axis transverse to the pivotal axis of said member, said lever having a portion engaged by said element and a portion in operative engagement with the other of said slides, means holding said other slide against said lever and said lever against said element, and means for rocking said member.

2,406,358
GROUND SPEED METER
Stephen Doba, Jr., Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 21, 1944, Serial No. 527,459
4 Claims. (Cl. 250—1)



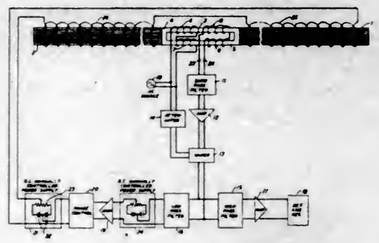
4. Means for measuring the speed of a vessel relative to and in the direction of an observed target comprising electrical means for ranging and locating said target including a cathode ray oscilloscope provided with a fluorescent screen on which the vertical position of a luminous spot represents the range of said target, electrical means for producing a horizontal luminous line on said screen intersecting said spot in an initial position thereof and electrical means including a potentiometer graduated in velocity units for maintaining said line continuously intersecting said spot.

2,406,359
VACUUM LAST AND SOLE FORMING MACHINE
William H. Doherty, Elmhurst, N. Y.
Application February 2, 1944, Serial No. 520,731
4 Claims. (Cl. 18—34)



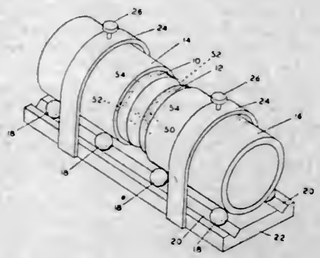
1. A machine for applying soles to shoes including a frame, a support pivotally mounted on said frame, a table on said support, a last mounted on said support having foot and heel portions, means for adjusting said foot and heel portions to accommodate shoes of different sizes, an adjustable heel plate on said heel last, a reversible foot plate on said foot last, means for applying a vacuum into the inner sole of a shoe, a flexible member on said table defining the sole portion, means for adjusting said flexible member to conform it to the desired shape, a flexible member on said table defining a heel portion, each of said flexible members cooperating with the other to define the entire sole portion, and means for applying heat to said heel and sole portion.

2,406,360
COMMUNICATION BETWEEN SHIPS
Walter B. Ellwood, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 4, 1944, Serial No. 557,194
8 Claims. (Cl. 179—82)



1. In a communication system a receiving device comprising an elongated core of ferromagnetic material, a center portion thereof having a high rate of change of permeability with low values of field intensity, means for applying a low amplitude high frequency field to said core, a receiving amplifier, windings on said core connected to said amplifier, and feedback windings also upon said core connected to said amplifier for neutralizing the effects upon said core of all fields applied thereto except a field having the same frequency as the signalling frequency of said system and except said high frequency field.

2,406,361
MOLD FOR USE IN THE MANUFACTURE OF OPTICAL ELEMENTS
Murry N. Fairbank, Weston, and Dexter P. Cooper, Jr., Cambridge, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application October 16, 1942, Serial No. 462,260
7 Claims. (Cl. 18—34)



3. A mold of the character described for forming optical elements of synthetic plastics and like materials comprising, in combination, a plurality of mold walls with optically smooth molding surfaces, a readily deformable closure element for forming with said walls the mold cavity, means for mounting said mold walls for relative motion toward each other during the polymerization of plastic material within said mold, said mounting means comprising a track and substantially frictionless bearings for supporting thereon at least one of said mold walls, and releasable clamping means for fixedly positioning said walls with respect to each other.

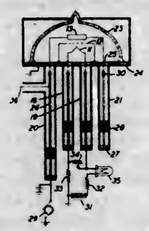
2,406,362
PROCESS
Mark Wendell Farlow, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 11, 1943, Serial No. 509,897
10 Claims. (Cl. 260—534)

1. Process which comprises reacting a thiolcarboxylic acid with a member of the class consisting of alpha-acylamino-alpha, beta-ethylenically unsaturated carboxylic acids and functional derivatives thereof which revert to the acid on hydrolysis and hydrolyzing the addition product to the corresponding alpha-amino-beta-mercapto carboxylic acid.

2,406,363
HIGH-TEMPERATURE ALLOY
Sidney O. Fisher, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application September 25, 1942, Serial No. 459,715
1 Claim. (Cl. 75—171)

An alloy containing about 69% cobalt, about 24% chromium, approximately 5% tungsten carbide, about 1.2% columbium and about .80% silicon.

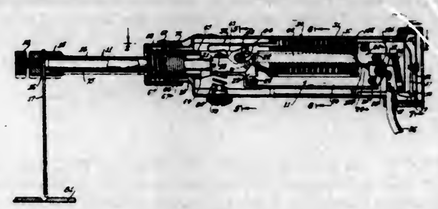
2,406,364
OSCILLATION GENERATOR
Harald T. Friis, Rumson, and Vincent C. Rideout, Red Bank, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 6, 1941, Serial No. 418,018
4 Claims. (Cl. 250—36)



1. An oscillation generator comprising a vacuum tube having a cathode, an anode and a control grid, a tuning line connected to said anode and said grid and a second tuning line connected to said cathode and said grid, said lines being short-circuited at their ends remote from the vacuum tube electrodes and having unequal lengths differing by an integral number of half wave-lengths at the oscillation frequency, and said electrodes being connected to said lines at points corresponding to voltage loops of the standing waves developed in the lines at the oscillation frequency.

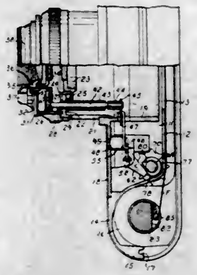
2,406,365
ELECTRODE HOLDER
Achilles C. Gough, Pocatello, Idaho
Application August 27, 1943, Serial No. 500,211
9 Claims. (Cl. 219—8)

1. A welding electrode holder comprising a housing constituting a support and handle, an arm extending axially beyond said housing and pivoted thereto, an electrode clamp carried at the free end of said arm, an audible signalling device, means including electromagnetic means actuated by the welding current to cause pivotal movement of said arm for striking the welding



arc, and means responsive to variations in the energization of said electromagnetic means for actuating said signalling device.

2,406,366
CAMERA
John N. Graef, Ann Arbor, Mich.
Application July 31, 1942, Serial No. 453,073
10 Claims. (Cl. 95—31)



1. In a camera having an exposure aperture, means for feeding film across said aperture, a movable control device actuated by movement of said film, releasable stop means adapted to stop movement of said control device for arresting feed of said film after a predetermined linear advance, shutter actuating mechanism, a shiftable member resiliently biased in one direction connected to operate said shutter actuating mechanism to make an exposure when moved in the direction against said bias, means controlled by said device for locking said shiftable member in shifted position where it is inoperable to make a further exposure, means interconnecting said member and said stop means for releasing said stop means upon said exposure making movement of said member, and means controlled by said film moved control device for releasing said locked member to permit it to be returned to its initial position so as to be immediately operable to make a further exposure after said film has been advanced said predetermined amount.

2,406,367
PREVENTION AND REMOVAL OF ICE OR FROST ON AIRCRAFT PARTS
Thomas Raymond Griffith and John Lewis Orr, Ottawa, Ontario, Canada, assignors to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada, a corporation of Canada
Application November 10, 1944, Serial No. 562,878
10 Claims. (Cl. 244—134)

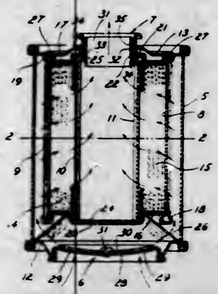
1. Means for preventing or removing ice or

frost on aircraft propellers comprising a laminated sheet constructed and arranged to be applied to the leading portion of the propeller and to substantially conform to the normal contour of the propeller, said sheet having an inner insulat-



ing layer, an intermediate electrically conducting layer containing acetylene black and constituting a heating element, and an outer protecting layer, said sheet through at least substantially 85% of its area having an overall thickness not substantially exceeding 0.065 inch.

2,406,368
GAS MASK CANISTER
William E. Gross, Joppa, Md.
Application February 4, 1942, Serial No. 429,495
8 Claims. (Cl. 183—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

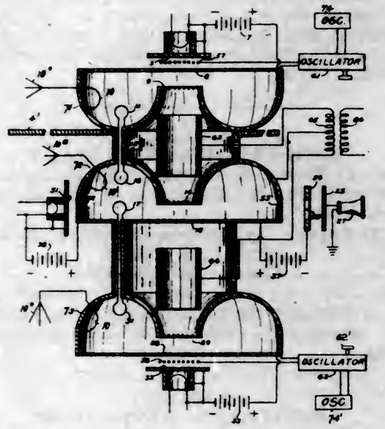


1. A canister for gas masks comprising an outer casing having an air inlet and an air outlet, air filtering and purifying means within the casing and embodying a container, a breathing tube disposed within said container and in communication with the air outlet, granular air-purifying material around said tube a dust bag lining inside said breathing tube and having open end portions sleeved on the tube at the respective opposite ends of the latter, and cap elements fitted on said ends of the breathing tube.

2,406,369
PREPARATION OF ORGANIC SOLVENT-SOLUBLE UNSATURATED CARBOHYDRATE ETHERS AND PRODUCTS PRODUCED THEREBY
Robert M. Hamilton and Peter L. Nichols, Jr., Philadelphia, Pa., assignors to United States of America, as represented by the Secretary of Agriculture
No Drawing. Application January 20, 1944, Serial No. 518,976
8 Claims. (Cl. 260—231)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

6. Compositions of matter comprising organic solvent-soluble allyl ethers of carbohydrates selected from the group consisting of ethers of starch and ethers of cellulose containing at least 1.3 allyl groups per glucose unit for allyl starch and 1.6 allyl groups per glucose unit for allyl cellulose.

2,406,370
ELECTRONIC OSCILLATOR-DETECTOR
William W. Hansen, Sigurd F. Varian, and Russell H. Varian, Stanford University, Calif., assignors to the board of trustees of the Leland Stanford Junior University, Stanford University, Calif.
Application July 8, 1938, Serial No. 218,064
4 Claims. (Cl. 315—6)

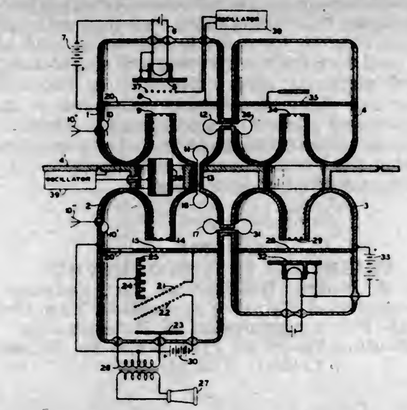


1. In apparatus of the kind described, a hollow internally resonant member, means for producing a beam of electrons, means for directing said beam of electrons through said hollow internally resonant member to effect velocity grouping of the electrons of said beam, a second hollow internally resonant member, means for directing said electron grouped beam into said second hollow internally resonant member, a third internally resonant hollow member, means for directing a beam of electrons therethrough to effect velocity grouping of the electrons of such last named beam, and means for directing said last named electron grouped beam into said second internally resonant hollow member.

2,406,371
OBJECT DETECTING APPARATUS AND METHOD
William W. Hansen, Russell H. Varian, and Sigurd F. Varian, Garden City, N. Y., assignors to the board of trustees of The Leland Stanford Junior University, Stanford University, Calif.
Original application July 8, 1938, Serial No. 218,064. Divided and this application December 29, 1943, Serial No. 516,012
38 Claims. (Cl. 250—1)

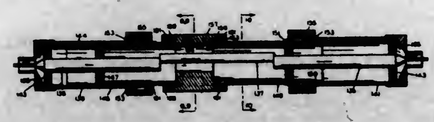
1. Object detecting apparatus, comprising means for producing a stream of electrons, means including a first cavity resonator in energy-interchanging relation with said stream for velocity modulating said stream, means for causing said velocity-modulated stream to become bunched, means including a second cavity resonator in energy-interchanging relation with said bunched stream for extracting high frequency energy therefrom, means coupled to said second resonator for transmitting high frequency energy toward an object to be detected, means coupled to said first cavity resonator for receiving high

frequency energy reflected from said object, and means for detecting changes in the velocity vari-



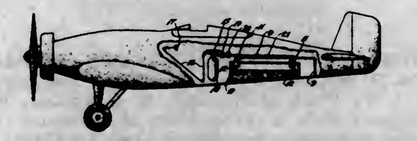
ations of said electron beam to provide an indication of said object.

2,406,372
HIGH-FREQUENCY APPARATUS
William W. Hansen and John R. Woodyard, Garden City, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 17, 1941, Serial No. 393,868
24 Claims. (Cl. 178—44)



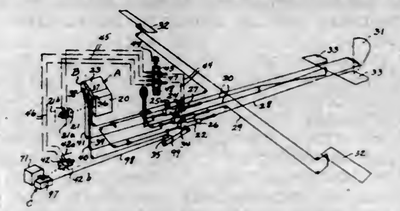
1. A transformer device for matching the admittances of any two circuit elements comprising adjustable means for converting the conductance of one of said elements to a value equal to that of said other element, and independent adjustable means for adding substantially pure susceptance to said converted conductance to fully match said two admittances.

2,406,373
TANK PURGING APPARATUS
Henry Ernest Heigis, Nutley, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application September 19, 1942, Serial No. 459,022
21 Claims. (Cl. 220—88)



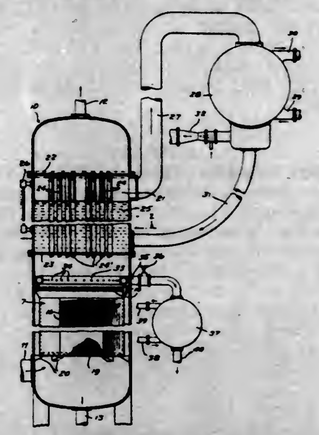
1. In an apparatus of the class described, the combination of a fuel tank having a venting passage, valve means for closing said passage in response to inertia or in response to the surge of fuel in said tank towards said passage, a source of inert medium under pressure, means for introducing the medium into said tank, and means associated with said last means and operable by the medium for preventing said valve means from closing said passage.

2,406,374
DIFFERENTIAL RUDDER LEVER CONTROL
Pliny G. Holt, United States Navy
Application February 13, 1943, Serial No. 475,759
5 Claims. (Cl. 244—75)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an aircraft automatic pilot having aileron operating means, gyroscopic means and rudder operating means interconnected for automatic control, the combination therewith comprising; a bombsight and auxiliary rudder control mechanism, said auxiliary rudder control mechanism comprising a chassis, a stem mounted for slidable movement in said chassis constructed and arranged to effect operation of the rudder operating means, a block having a slot carried by said stem, a lever extending through said slot and connected to said block for sliding and swinging movement relative thereto, resilient means associated with the connection aforesaid for restraining said movement, means connecting one end of said lever to said bombsight for shifting said lever at one end, and a follow-up connection responsive to changes in position of the rudder operating means for shifting the lever at its opposite end.

2,406,375
FRACTIONATING COLUMN
William N. Hoyte, Rosebank, Staten Island, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application December 11, 1942, Serial No. 468,670
9 Claims. (Cl. 202—161)



1. Apparatus for fractionally distilling composite liquids comprising a fractionating column having an inlet, vapor and liquid contacting means in the column comprising packing of capillary material through which vapor of the liquid flows counter-current to reflux, said contacting means having a plurality of separate sections disposed adjacent each other in a horizontal plane, vapor condensing means in the

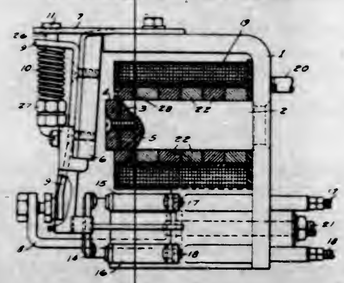
column disposed above and in spaced relationship with said contacting means to form a chamber above and extending over said vapor and liquid contacting means, said condensing means having a plurality of vertically extending tubular members distributed substantially uniformly above said contacting means with an equal number of tubular members located above each of said sections and in communication with the chamber at one end of said members to receive vapor therefrom and return condensate thereto, a condensing medium on the outside of said tubular members having a boiling temperature below the condensing temperature of the vapor of the liquid, the arrangement being such that vapor of the liquid is condensed in said tubular members and the condensate flows downwardly through said chamber substantially uniformly onto the vapor and liquid contacting means as reflux and the condensing medium is vaporized, means for withdrawing vapor of the liquid from the column from the chamber between the contacting and the condensing means, means for controlling the quantity of vapor of the liquid withdrawn from the column to control the quantity of vapor condensed and returned to the contacting means as reflux, means for condensing vapor of the condensing medium, and means for returning condensate of the condensate medium to the condensing medium on the outside of said tubular members.

2,406,376
HAIR FOUNDATION
William Huppert, New York, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware
Application February 15, 1945, Serial No. 577,972
3 Claims. (Cl. 132—55)



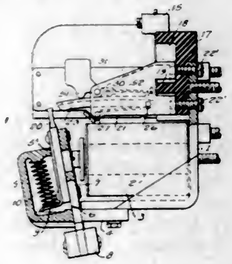
3. A hair foundation comprising a flexible tubular casing stuffed with fibrous substance on which hair may be supported in roll form, a tab of openwork fabric at each end of the casing, each tab having a portion extending into the casing and a portion projecting outwardly from the casing, and means for binding the tabs to the casing.

2,406,377
ADJUSTABLE TIME LIMIT DEVICE
Ralph B. Immel, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 20, 1943, Serial No. 495,467
3 Claims. (Cl. 175—372)



1. An electromagnetic time-limit device, comprising a magnetic field structure having a core, an armature pivotally linked to said structure and being biased away from one end of said core to be attracted thereby when said core is magnetized, a magnetizing coil surrounding said core with sufficient spacing to form an interstice around and along said core for the reception of short-circuiting coil elements, and a plurality of short-circuiting coil elements slidably arranged in said interstice and stacked over one another along said core so as to be exchangeable thereon to permit changing the time limit of the device by a corresponding selection of said elements.

2,406,378
VIBRATORY LATCHING DEVICE
Ralph B. Immel, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 25, 1944, Serial No. 528,060
5 Claims. (Cl. 74—527)

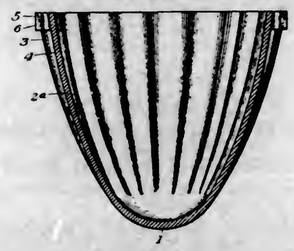


1. A device for latching a movable member in response to the occurrence of shock, comprising, in combination, a support, two pivot shafts mounted on said support in parallel to each other, a latching lever mounted on one of said shafts for angular motion and extending in the general direction towards and beyond said other shaft, a plurality of weights mounted for individual angular motion on said other shaft and having each two projections at opposite sides of said latter shaft for engaging said lever in order to move it into latching position upon oscillation of any of said weights, a corresponding plurality of strand-shaped springs having one end attached to one of said weights respectively, said lever having a projection located near said first shaft and extending away from said shaft at the side of said weights, and said springs having their respective other ends engaged by said projection, said weights and appertaining springs forming inertia controlled oscillatory systems of different natural frequencies.

2,406,379
PICKLING BATH FOR FERROUS METALS
Aaron D. Johnson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 11, 1944, Serial No. 544,462
10 Claims. (Cl. 252—150)

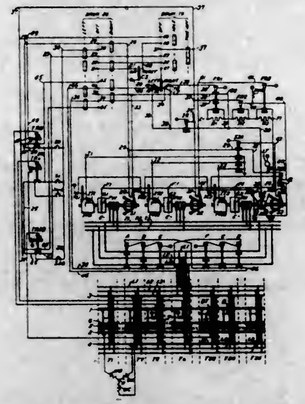
1. A free-flowing, pulverulent composition adapted to be dispersed in an aqueous acid solution to form a metal-pickling bath, the composition comprising about from fifteen to thirty five per cent by weight of a liquid thiazolinyl sulfide dispersed on a finely divided solid soluble in a dilute aqueous acid bath in the concentration in which it would be added with the amount of thiazolinyl sulfide required to give the desired inhibition and having an average particle size of less than about five microns and a maximum particle size of less than about 200 microns.

2,406,380
CINDER POT
William Johnston, Jr., Wilkinsburg, Pa.
Application November 19, 1942, Serial No. 466,095
3 Claims. (Cl. 266—39)



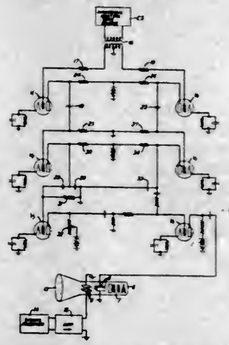
2. A cinder pot having an open upper end and having a side wall curved vertically of the cinder pot outwardly away from the vertical axis of the cinder pot; the interior surface of the said side wall being developed on a radius of such length and so centered at a level at least as high as the upper end of the cinder pot that the cross-sectional area of the cinder pot cavity increases progressively upwardly of the said side wall to a maximum at the open upper end of the cinder pot.

2,406,381
PRIME MOVER FOR ELECTRIC CATAPULTS
Ruel C. Jones, Pittsburgh, and Maurice F. Jones, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 31, 1943, Serial No. 500,641
2 Claims. (Cl. 290—17)



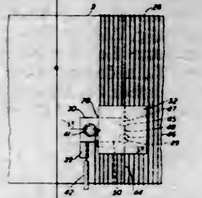
1. An electric-motored device, and a power plant delivering a large portion of its energy to said device, said power-plant comprising a rotatable generator-means, prime-mover means for driving said generator-means, said prime-mover means being of a type having a maximum output at a particular speed, a variable field-exciting means for the generator-means, accelerometer-means responsive to a predetermined rate of acceleration or deceleration of the prime-mover means, and automatic control-means operative during a speed-changing period of said electric-motored device to control said field-exciting means in response to said accelerometer-means in such manner as to tend to keep the acceleration or deceleration less than said predetermined rate.

2,406,382
INDICATING SYSTEM
William M. Kellogg, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1941, Serial No. 412,099
1 Claim. (Cl. 315—24)



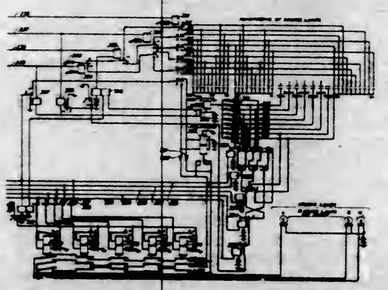
In combination with a cathode ray tube signal indicator including cathode ray beam producing and deflecting means and an indicating screen, two saw-tooth wave generators for controlling said deflecting means to sweep the cathode ray beam back and forth across said screen to provide a time scale thereon, one of said generators producing a saw-tooth wave, the rising portions of which are of relatively short duration compared with those produced by the other generator, such that the combined action of both generators on said deflecting means results in an expansion of a portion of said time scale and a corresponding compression of the remaining portion so as to maintain the total sweep range within the field of view of said screen and means for controlling the relative phase of the outputs of said generators to select the portion of the scale to be amplified, said one generator comprising an amplifier having a plurality of resistance-condenser coupled vacuum tube stages, the second stage of which is biased below cut-off, means to apply a sinusoidal voltage input to said amplifier of sufficient amplitude to overload the first stage thereby producing a square-shaped voltage output for that stage, the resistance-condenser coupling between the first two amplifier stages being proportioned so that the voltage input to the biased second stage is the differential of the voltage output of said first stage, thus producing a pulse output for said second stage which is unaffected by the positive portions of the input voltage thereto, the condenser in the output coupling of said second stage discharging during the positive input intervals and recharging through the resistance thereof during the intervals between positive inputs, the gain of said amplifier being adjusted to provide the desired degree of scale expansion and the amplitude of the sinusoidal voltage input thereto being selected to control the pulse duration of the amplifier output applied to said deflecting means and thus the interval of scale expansion.

2,406,383
ELECTRICAL TERMINAL
Wilfred J. Kindermann, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 29, 1943, Serial No. 496,545
10 Claims. (Cl. 201—63)



1. An electrical terminal comprising a metal plate, a tube member formed on said plate to receive and hold a wire, spaced tubular tabs formed on said plate and arranged in alignment with each other to receive and hold a second wire and a sheet of insulating material in face-to-face relation with and underlying said plate and providing an insulating support for said plate.

2,406,384
DATA TRANSMISSION SYSTEM
Fullerton S. Kinkead, deceased, late of New York, N. Y., by Rita S. Kinkead, administratrix, Trudau, N. Y., Lawrence E. Melhuish, Glen Ridge N. J., Fred J. Singer, Rockville Centre, N. Y, and Edward M. Smith, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1942, Serial No. 464,564
5 Claims. (Cl. 177—351)

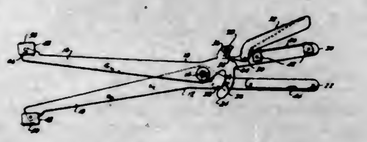


1. In a data transmission system, an observing station, a receiving station, means at said observing station for making measurements, means at said observing station for translating said measurements into a four-digit number, means at said observing station for translating each of the ten possible numerals in the units place in said number into a particular one of ten of sixteen possible code combinations of electrical impulses in accordance with a four-element permutation code, means at said observing station for impressing said combination of impulses simultaneously on four conductors comprising a first channel interconnecting said stations, means at said observing station for translating each of the ten possible numerals in the tens place in said number into a particular one of ten of thirty-two possible code combinations of electrical impulses in accordance with a five-element permutation code, means at said observing station for impressing said electrical impulses, defining the numeral in the tens positions, simultaneously, at a first time, on four of five other conducting elements comprising a second channel interconnecting said stations, means at said observing station for translating each of the numerals in the combined hundreds and thousands positions in said number into code combinations of electrical impulses other than assigned for said numerals in the tens positions in accordance with said five-element code and means at said observing station for impressing simultaneously at a second time signal impulses defining said combined numerals in said hundreds and said thousands positions in said number on said five conducting elements comprising said second channel.

2,406,385
ABRASIVE ARTICLE AND METHOD OF MAKING THE SAME
Samuel S. Kistler, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application April 1, 1944, Serial No. 529,177
19 Claims. (Cl. 51—298)

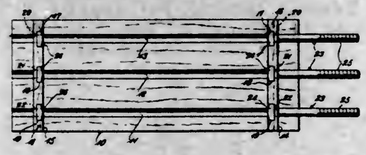
1. The steps in the method of making an abrasive article which comprise improving the workability of an unvulcanized butadiene polymer by treating it during working with a halogen-bearing plasticizing agent in which the halide is selected from the group consisting of chlorine, bromine and iodine and which is substantially non-reactive with the polymer but capable of softening and making the polymer plastic under mechanical working thereof for the reception thereinto of abrasive grain; distributing into and throughout the plasticized butadiene polymer a vulcanizing agent, abrasive grain, and a resin polymer having amino groups therein and with which resin polymer the halogen-bearing plasticizing agent is capable of reaction at elevated temperatures and at the amino groups thereof to harden it but is incapable of substantial reaction at working temperatures of the resultant mix; shaping the mix; and under heat treatment of the shaped mix, reacting the halogen-bearing agent at the amino groups of the resin polymer to harden the resin and vulcanizing the butadiene polymer by reacting with the vulcanizing agent.

2,406,386
GLOVE-SIZE TESTER
Robert C. Koepnick, Dayton, Ohio, Donald I. Patt, Providence, R. I., and Francis E. Randall, New Philadelphia, Ohio
Application May 15, 1945, Serial No. 593,919
6 Claims. (Cl. 73—98)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



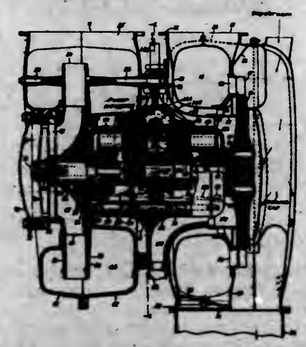
1. In a device for sizing a glove, an inside caliper adapted for insertion into the glove, manual means for forcing the legs of the caliper apart to cause them to contact the inside of said glove, means interposed between said manual means and said caliper, adapted to yield upon application of increased force to said manual means after said caliper has contacted the inside of said glove, means to indicate the extent of said increased force, and size indicating means to indicate the size of the glove when said increased force indicating means is brought to a predetermined value.

2,406,387
METHOD OF MAKING WOODEN POST CONSTRUCTION
Alvin B. Lank, Washington, D. C.
Application January 7, 1944, Serial No. 517,446
5 Claims. (Cl. 144—309)



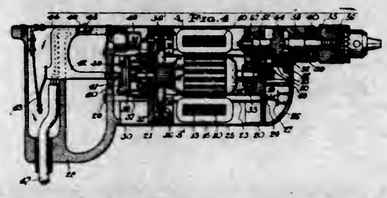
1. The method of constructing a plurality of wooden posts each of which has a connector element incorporated therein adjacent each end thereof which method comprises forming a plurality of longitudinally extending grooves in one side of each of a pair of wooden blanks from which the posts are to be formed, forming a transverse groove adjacent each end of said side of each of said blanks with the transverse grooves intersecting the longitudinal grooves, providing a pair of connector retaining members with a plurality of seats for receiving connector elements, the number and spacing of said seats in each of said connector retaining members conforming to the number and spacing of the longitudinal grooves in each of said blanks, placing connector elements in each of said seats, positioning said blanks with their grooved sides together and with said connector retaining members in said transverse grooves, bonding said blanks together, and severing the thus bonded assembly along longitudinal lines intermediate said longitudinal grooves.

2,406,388
TURBOSUPERCHARGER
Anthony J. Larrecq, Indianapolis, Ind., assignor to General Electric Company, a corporation of New York
Application June 10, 1941, Serial No. 397,378
4 Claims. (Cl. 184—6)



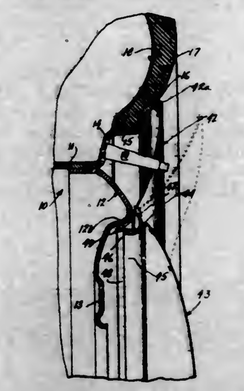
1. Gearing comprising a casing, two aligned shafts having end portions overhanging from the casing and other end portions telescoping each other and supported on a central portion of the casing, means for transmitting torque between the two shafts, the central portion of the casing forming an oil chamber and end portions of the casing forming leak-off chambers, means for lubricating the gearing comprising a pump driven from one of the shafts for forcing lubricant into the gearing and separate scavenging pumps connected to the leak-off chambers and the intermediate chamber for removing lubricant therefrom.

2,406,389
ELECTRIC MOTOR
Royal Lee, Milwaukee, Wis., assignor to Lee Engineering Research Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application November 30, 1942, Serial No. 467,336
2 Claims. (Cl. 172—36)



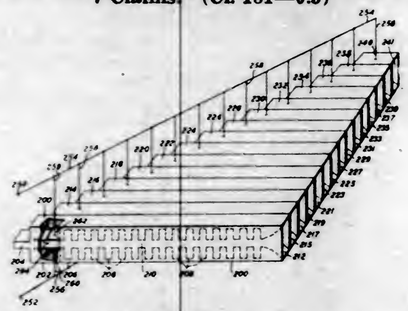
1. In an electrically-operated tool, a housing, a variable-speed motor in said housing having a magnetizable stator and a tool-driving rotor, said housing having a frame member adjacent to an end of said rotor, a handle secured to said frame member, a speed-responsive governor for the motor disposed between said frame member and handle, and a manually operable speed-setting actuator for the governor shiftably mounted in said handle, said handle having a hand-grip and a hand-receiving opening in front of said hand-grip, and said actuator having a finger-operated trigger portion within said opening.

2,406,390
WHEEL CONSTRUCTION
George Albert Lyon, Allenhurst, N. J.
Application March 19, 1943, Serial No. 479,701
4 Claims. (Cl. 301—37)



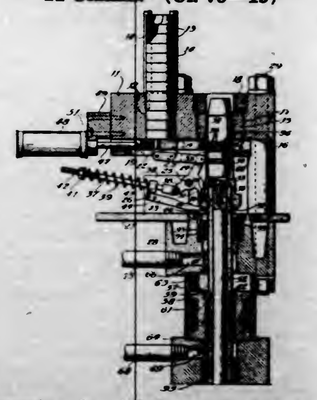
1. In a cover structure for a wheel including a multi-flanged tire receiving rim member and a body member, a wheel cover for substantially covering exposed side flanges of the rim member made of form sustaining but resiliently yieldable plastic material and formed for detachable engagement with a wheel member, said cover comprising an annulus having an inner margin formed into a radially extending yieldable hollow rib and a hub cap seated on and nestingly engaged with said yieldable rib so as to be resiliently retained thereby on the wheel.

2,406,391
COMPRESSIONAL WAVE DIRECTIONAL, PRISMATIC, AND FOCUSING SYSTEM
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 6, 1942, Serial No. 425,710
7 Claims. (Cl. 181—0.5)



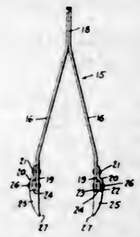
1. A prismatic directional device for radiating and receiving compressional wave energy, said device including a pipe-like structure of uniform internal diameter and of axial length exceeding its internal diameter, said structure including therein a plurality of regularly spaced transverse diaphragms, the interval between diaphragms being approximately equal to the said internal diameter, the said structure also including a plurality of regularly spaced orifices, each orifice being centrally located between two diaphragms, the said structure being designed and proportioned to be a band-pass compressional wave filter, the device including at one end of said structure a driving or energy utilizing element and at the other end an energy dissipating element which substantially matches the characteristic impedance of the structure in its pass-band whereby for each frequency within the pass-band of said device particular predetermined different directive characteristics will be realized.

2,406,392
APPARATUS FOR APPLYING ROTATING BANDS TO PROJECTILE SHELLS
Anthony Minarik, Jr., and Swen H. R. Ericson, Chicago, Ill., assignors to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application March 6, 1943, Serial No. 478,320
11 Claims. (Cl. 78—15)



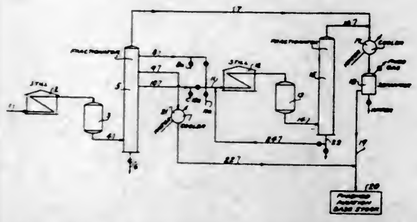
1. Apparatus for joining cylindrical members at least one of which is made of pressure-displaceable material, comprising a die, separate movable supports for each of said members, means for moving said supports in unison to force one of said members into pressure contact with said die to cause said members to be bonded together, and means for thereafter causing further movement of one only of the supports to discharge the joined members from said die.

2,406,393
TWEEZER IMPLEMENT AND THE LIKE
Edwin A. Neugass, Port Chester, N. Y.
Application September 27, 1943, Serial No. 503,898
1 Claim. (Cl. 81—43)



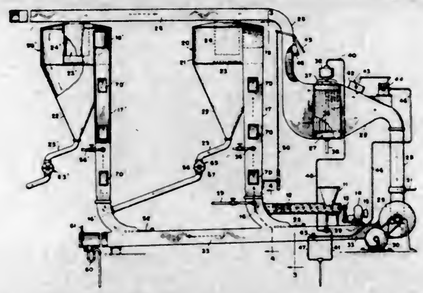
A surgical appliance comprising a pair of tweezers having a bifurcated body, a member secured to the end of each bifurcation of said body, said member having an offset forming between it and the end of said bifurcation a slot, a tapered jaw member projecting within said slot and being secured to said first-named member and said bifurcation, each of said jaw members being made of compressible and transparent organic plastic material, the compressibility of the material enabling said jaw members to engage an object being grasped thereby and therebetween, and the transparency of said jaw members enabling the extent and condition of said object being revealed through the jaw members.

2,406,394
PRODUCTION OF AVIATION GASOLINE
Roger H. Newton, Bowling Green, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 8, 1943, Serial No. 471,647
10 Claims. (Cl. 196—49)



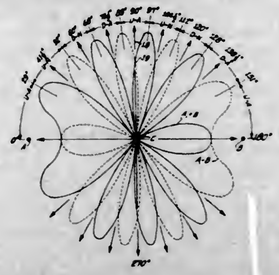
1. In the production of high quality motor fuels including aviation gasoline and aviation base stock the process which comprises dividing the synthetic crude from a cracking operation into at least four cuts substantially as follows: initial —180° F., 180–250° F., 250–325° F. and 325 to 500° F., subjecting the second and the fourth of said cuts to the action of high activity cracking catalysts under severe cracking conditions, and combining the products from said catalytic operation in the boiling range of aviation gasoline with the first and third of said cuts to make a superior aviation base stock.

2,406,395
PROCESS OF DEHYDRATING MEATS CONTAINING FATS IN A FLUID CURRENT
William Alexander Noel, Washington, D. C., assignor to the United States of America, as represented by the Secretary of Agriculture
Application October 12, 1943, Serial No. 505,939
1 Claim. (Cl. 34—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



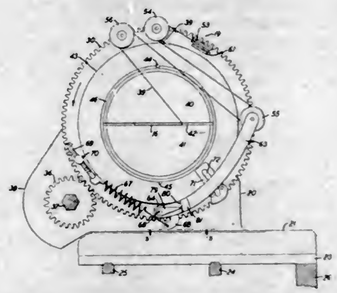
A method of dehydrating meats containing fats, comprising introducing granulated meat at a low region into an upwardly flaring tube having a plenum chamber communicating with the tube at its lower end, said tube having passing therethrough an upwardly flowing stream of heated, drying gas at such velocity as to carry the granulated meat upwardly in the tube whereby, due to decrease of velocity of the gas as it flows upwardly in the tube, the grains of meat are gradually conveyed upwardly during drying from one region to a higher region where the gas force tending to move them upwardly is in equilibrium with the force of gravity tending to move them downwardly and whereby the fats separate from the meat and drain into the plenum chamber, and separately collecting the fats from the plenum chamber and the dehydrated meat from the tube.

2,406,396
EQUISIGNAL RADIO BEACON SYSTEM
William J. O'Brien, Los Angeles, Calif., assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application March 2, 1942, Serial No. 432,948
4 Claims. (Cl. 250—11)



1. In a radio beacon system for producing a plurality of radio frequency equi-signal surfaces by radiating from spaced points radio frequency signals of a given frequency and by periodically changing the phase relation of said signals from said one relation to another, the method of identifying the surfaces so produced which consists in radiating from a centrally positioned point radio frequency signals having said given frequency and bearing a predetermined phase relation to the signal radiated from one of said spaced points, and distinguishably keying off and on the signal radiated from said central point while maintaining fixed the phase relation between the signals radiated from said spaced points.

2,406,397
WIRE WINDING MACHINE
David B. Parkinson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 19, 1942, Serial No. 466,132
3 Claims. (Cl. 242—9)

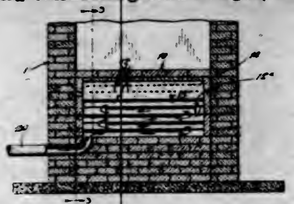


1. A winding machine for winding strand material onto a support comprising means for holding said support in taut condition, a winding head, a rotatable ring, a spool and a rotatable holder for said spool operable to rotate around the position of said support, means to rotate said ring, means to cause relative movement of said winding head and said means for holding said support, a pivoted arm carried by means of said rotatable ring and movable toward and away from the position of said support, means to move said arm away from the position of said support, a system of pulleys carried by said ring and a pulley in said system carried by said arm, said spool carrying a supply of said strand material and said system of pulleys being arranged to guide said strand material from said spool to said support, a brake operable to control rotational movement of said spool and holder for said spool and operated by means of said arm, said spool and holder for said spool being rotatable under the pull of said strand material as said strand material is being wound onto said support, and said arm and said brake being operable in conjunction to maintain said strand material taut while said strand material is passing from said spool onto said support.

2,406,398
COMBUSTION IMPROVING APPARATUS
Joseph E. Pernet, Chicago, Ill., assignor to Fuel Saver Corporation, Chicago, Ill., a corporation of Illinois
Application December 5, 1941, Serial No. 421,724
1 Claim. (Cl. 110—75)

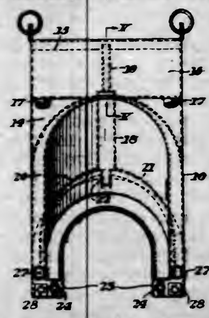
A bridge wall for use with the fire box of a furnace, said bridge wall having a tortuous passage therein from the bottom of said wall toward the top, a pressure chamber at the top of said wall and forming a part of said passage, passages from said chamber into said fire box, and a passage for connection with means for forcing air through said tortuous passage into said chamber and out said openings and against the normal draft in said furnace, said tortuous passage comprising individual superposed channels of uniform cross section longitudinally offset to pro-

vide a zigzag continuous passage from the air inlet to said pressure chamber, each channel comprising a pair of side flanges and a web extending between and connecting said flanges, the ends of



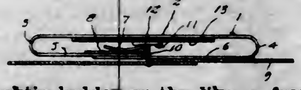
the webs and side flanges of each channel being offset with respect to the ends of the web and side flanges of an adjacent channel, said wall having means for closing the projecting ends of said channels.

2,406,399
COOLING APPARATUS FOR FURNACE PORTS
Edward W. Pottmeyer, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application May 2, 1945, Serial No. 591,619
9 Claims. (Cl. 122—6.5)



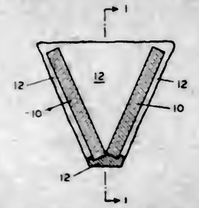
1. A furnace port cooler comprising an elongated water jacket of arch section including spaced inner and outer walls, and means defining an outlet passage extending longitudinally of the cooler from adjacent the inner end thereof to the outer end, said passage being generally rectangular in section and having a depth approximately one-half the distance between said walls.

2,406,400
NECKTIE HOLDER
Myer Pumps, Washington, D. C.
Application November 4, 1944, Serial No. 561,979
1 Claim. (Cl. 24—49)



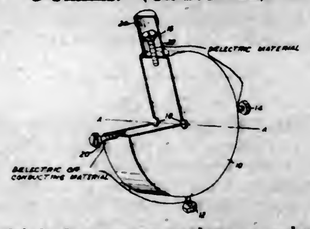
In a necktie holder or the like, a front member merging into a curved end portion to form a loop, an arm formed integrally with said end portion and extending rearwardly of said front member, spaced entirely therefrom and substantially parallel therewith, to approximately the central part of said member, a clip element extending from the end of said arm, formed integrally with said arm and extending toward the said curved end portion substantially parallel with said arm within said loop whereby to provide a means for holding an end of a necktie in place on a wearer, said arm being adapted for insertion through a buttonhole of the shirt of a wearer of said holder and said clip being adapted to retain said holder in said buttonhole against accidental displacement.

2,406,401
MOLD FOR USE IN THE MANUFACTURE OF OPTICAL ELEMENTS
John H. Richardson, Needham, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application September 2, 1942, Serial No. 457,033
2 Claims. (Cl. 18—34)



1. A mold for use in the formation of a prism of polymerized synthetic plastic material comprising, in combination, a plurality of angularly positioned optically smooth mold walls of glass for molding the light-transmitting surfaces of said prism, and a cement comprising a low melting point, fusible metallic alloy rigidly bonding said walls together and forming a plurality of additional mold walls.

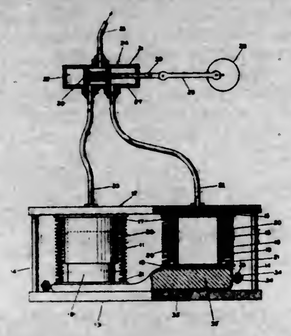
2,406,402
FREQUENCY ADJUSTMENT OF RESONANT CAVITIES
Douglas H. Ring, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1941, Serial No. 409,376
3 Claims. (Cl. 178—44)



3. In a high frequency system, a substantially closed metallic vessel enclosing a cavity adapted for excitation by the projection of an electron stream across a centrally positioned path through said cavity, said vessel having a plurality of threaded holes therein, a like plurality of threaded plugs assembled in the said plurality of threaded holes in the walls of said vessel, said plurality of plugs including dielectric plugs of several substantially different dielectric constants and conductive plugs, whereby the resonant frequency of said cavity within said vessel can be precisely adjusted by turning appropriate ones of said plurality of plugs to project to a greater or lesser extent into the cavity.

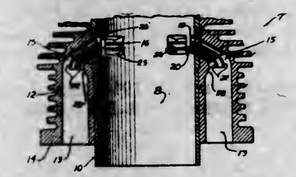
2,406,403
POLYMERIZING APPARATUS AND METHOD
Howard G. Rogers, Wellesley Hills, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application May 1, 1943, Serial No. 485,306
27 Claims. (Cl. 18—1)

10. Apparatus of the character described comprising, in combination, a deformable fluid-tight container adapted to be partially filled with a mass of polymerizable plastic material, means sealing back ends of said container, means for supporting said sealed container, and means com-



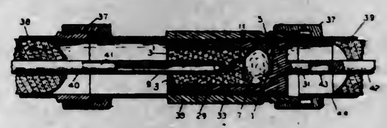
prising a plurality of reciprocating elements adapted to alternately engage and compress different portions of said container to induce a reciprocating circulation of the mass contained therein.

2,406,404
INTERNAL-COMBUSTION ENGINE
John L. Ryde, Milwaukee, Wis., assignor to McCulloch Aviation, Inc., Los Angeles, Calif., a corporation of Wisconsin
Application October 12, 1945, Serial No. 621,951
9 Claims. (Cl. 123—73)



3. In a two cycle internal combustion engine: a cast cylinder having a bore opening to one end thereof and having substantially diametrically opposite longitudinal "air" inlet passages formed in its side wall communicated with the cylinder bore through branch passages angling abruptly from the longitudinal passages inwardly toward the bore with the mouths of said branches opening to the bore substantially medially of its ends and at substantially diametrically opposite sides thereof, said branches extending toward each other at relatively small identical angles to a radial plane of the bore so as to direct "air" into the bore at slight inclinations toward the closed end of the bore; means in said branch passages for deflecting "air" flowing therethrough into the bore at said slight inclination laterally to one side of the bore axis toward a point of convergence located midway between the mouths of the branches but close to one side wall of the bore; and splitter vanes in each branch passage dividing the same into a plurality of longitudinally adjacent discharge passageways, said splitter vanes having curved outer end portions the extremities of which extend into the longitudinal passages to assure smooth transfer of "air" from said longitudinal passages into the branch passages and to divide the "air" flowing through the longitudinal passages into a plurality of separate streams at the outer entrances to said branch passages.

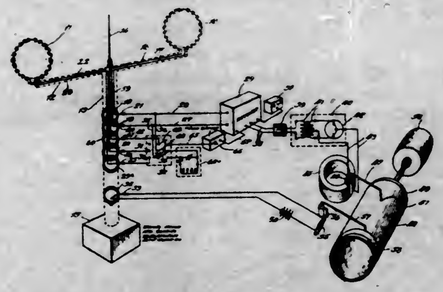
2,406,405
COAXIAL CONDENSER CRYSTAL AND METHOD OF MAKING SAME
Frederick L. Salisbury, Hempstead Gardens, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 19, 1941, Serial No. 394,239
8 Claims. (Cl. 250—31)



1. A concentric transmission line mounting for a crystal comprising a shielding outer conductor, an inner conducting body insulated from said outer conductor and having a cavity therein, a crystal fitting snugly into the cavity so as to make intimate contact with the walls thereof, a wire serving as a terminal for said crystal, and insulating material holding said wire in electrical contact with said crystal.

6. In a mounting for a unidirectional conducting crystal, a body of electrically conducting material formed with a recess in which said crystal is seated in intimate contact with said body, a conductor extending into said recess into contact with a sensitive area of said crystal, solidified insulating means contained within said recess for retaining said crystal therein and surrounding and retaining said conductor in contact with said crystal within said recess, and substantially axially aligned connector terminals for said body and said conductor respectively projecting from opposite ends of said body.

2,406,406
RADIO DIRECTION FINDER
Peter C. Sandretto, Chicago, and Elmer P. Buckthal, Brookfield, Ill., assignors to United Air Lines, Inc., Chicago, Ill., a corporation of Delaware
Application July 24, 1941, Serial No. 403,802
17 Claims. (Cl. 250—11)



1. A radio direction finder comprising a receiver, directional antenna means including a pair of loop antennas fixedly mounted with respect to each other in spaced substantially coaxial relation, means for rotating said antenna means at a substantially constant speed about an axis substantially parallel to the planes of said loops, a non-directional antenna, coupling means selectively operable to one of two positions to couple one of said loop antennas and said non-directional antenna to said receiver in parallel relation and to the other of said two positions to couple said pair of loop antennas to said receiver in opposed parallel relation, and recording

means energizable in accordance with the output energy of said receiver for producing a lasting visual record of the signal intensities supplied to said receiver during rotation of said antenna means with said coupling means in either of said two positions.

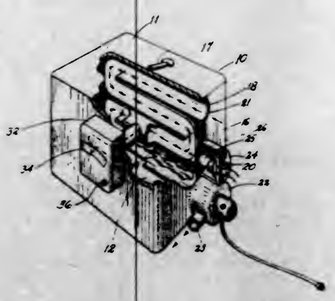
2,406,407
FIBER TREATMENT
Fred J. Schiessler, Pearisburg, Va., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application August 26, 1944, Serial No. 551,445
6 Claims. (Cl. 117—139.5)

1. In a process for rendering staple fibers having a basis of an organic derivative of cellulose more amenable to textile operations by applying a conditioning agent thereto comprising the reaction product of a mixture of a long chain higher fatty acid, a vegetable oil and mineral oil with oleum, having added thereto a penetrating agent and neutralized with alkali and a hydroxyalkyl amine, the step which comprises applying said conditioning agent to said fibers at a temperature of at least 40° C.

2,406,408
TREATMENT OF TEXTILE MATERIALS
George W. Seymour and Walter Brooks, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 30, 1942, Serial No. 470,662
8 Claims. (Cl. 252—8.75)

1. Process for the preparation of a conditioning liquid for textile materials which comprises reacting a mixture comprising a mineral oil, a vegetable oil, a higher fatty acid and fuming sulphuric acid at a temperature no greater than about 20° C. whereby sulphonation of at least part of the fatty acid and vegetable oil occurs and then adding a spreading and penetrating agent and an amount of alkali-metal hydroxide and an alkylolamine to neutralize all of the sulfuric acid and the major portion of the higher fatty acid.

2,406,409
DUST GAUGE
Hiram W. Sheridan, Oak Park, Ill.
Application June 19, 1943, Serial No. 491,482
3 Claims. (Cl. 88—14)

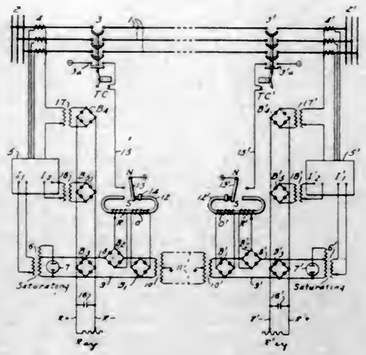


1. In a device for indicating the relative amounts of foreign particles floating in the air, a comparatively small portable cabinet having a continuous air passage therein, said cabinet having inlet and outlet openings at the ends of the passage, said passage being sinuous for forming a dark intermediate portion, a source of light for directing light rays along said dark intermediate portion for illuminating the same, a fan carried by said cabinet, said fan spanning said passage for causing air containing foreign particles to pass along said sinuous passage from one end to the other, a light meter carried by said cabinet at one side of said intermediate portion, a light passage extending outwardly from said intermediate portion for conducting light reflected from said particles onto said meter for measuring the intensity of the light reflected from said particles for indicating the relative amount of said particles in the air passing along the dark intermediate portion of said passage.

2,406,410
PRODUCTION OF ORGANIC SULPHIDES
Frank Kerr Signaigo, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 2, 1944, Serial No. 524,811
9 Claims. (Cl. 260—609)

1. A method for producing an organic sulphide which comprises hydrogenating an organic compound containing a carbonyl group in the presence of a thiol and a sulphactive hydrogenation catalyst.

2,406,411
UNIVERSAL SEQUENCE-CURRENT RELAYING MEANS
William K. Sonnemann, Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 21, 1944, Serial No. 519,145
21 Claims. (Cl. 175—294)

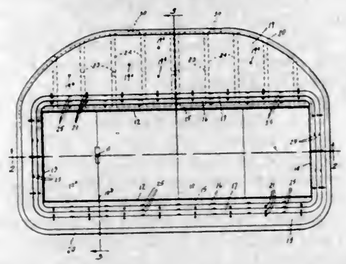


1. In a relaying system for protecting a polyphase line, means for providing a relaying circuit carrying a single-phase electrical quantity which is responsive to the positive-sequence component of the line-current, means for energizing a resistor from said relaying circuit through a full-wave rectifier, means for deriving another sequence component of the line-current, means for energizing the same resistor from said other sequence component through another full-wave rectifier in the same polarity as the first-mentioned energization, and relaying means having an energization from said relaying circuit.

2,406,412
TREATMENT OF WOOL FIBERS
John Bamber Speakman and Thomas Barr, Leeds, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 15, 1943, Serial No. 494,848. In Great Britain August 21, 1942
6 Claims. (Cl. 117—141)

1. Process for the production of novel effects on wool-fiber-containing textile material which comprises exposing such material at an elevated temperature of the order of 90–95° C. to the combined action of water vapor and the vapor of a volatile monomeric polymerizable compound containing a $CH_2{=}C{=}$ group and selected from the class consisting of esters of acrylic acid, esters of methacrylic acid, styrene and vinyl esters until polymer is formed within the fibers.

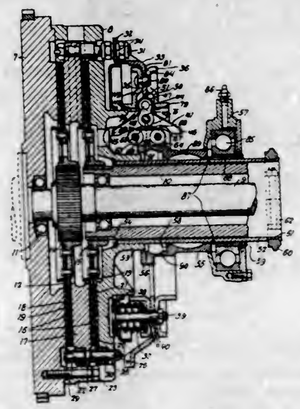
2,406,413
TERRACED COMBINATION POOL AND RESERVOIR
Skiles E. Test, Indianapolis, Ind.
Application November 29, 1941, Serial No. 421,005
9 Claims. (Cl. 210—11)



1. A combination pool and reservoir structure including an elongated pool, a reservoir in juxtaposition thereto, the major portion of the reservoir lying to the outside of the pool, a common wall between the reservoir and the pool, a cover for the reservoir, said cover comprising a lateral continuation of the adjacent upper edge of the pool common sidewall, the reservoir peripherally enveloping the pool, the pool defining peripheral wall arrangement forming the inner wall of the reservoir, the pool proper including successively superposed terracing arrangements extending outwardly and upwardly from the top of the pool walls for pool enlargement only at the upper periphery of the pool proper.

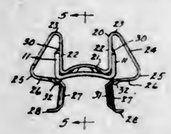
2,406,414
DOUBLE CLUTCH
W. Vincent Thelander and Everson M. De Coursey, Auburn, Ind., and William O. Bechman, Chicago, Ill., and William W. Henning, River Grove, Ill., assignors to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application May 31, 1944, Serial No. 538,156
21 Claims. (Cl. 192—68)

1. In a clutch actuating mechanism, the combination with a back plate, and a clutch actuating lever having a pair of divergent arms oscillatably mounted on the back plate, of a shiftable member adapted to reciprocate in substantially coaxial relation to the back plate, two spaced parallel roller means on said shiftable member in transverse relation to the axis of rotation of the clutch having rolling contact with said arms in the reciprocatory movement of said shiftable member to oscillate said lever in either direction, and guide means on the back plate having track



surfaces thereon for rolling guiding contact of said roller means thereon to guide said shiftable member in coaxial relation to the back plate and assume the radial thrust on said shiftable member incident to the operation of the lever thereby.

2,406,415
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 22, 1943, Serial No. 495,686
4 Claims. (Cl. 85—32)

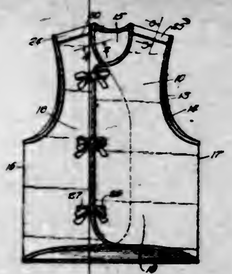


1. A fastening device comprising a member having an opening and deformed material about the opening to provide a thread-engager and a carrier for said member, formed with a pair of resilient arms extending away from the member and bent on themselves to extend backwardly in spaced relation to the first-mentioned extensions, said arms then extending inwardly toward the member and then away from the member to provide attaching legs, said legs being inwardly transversely concave, externally transversely convex to enable them to seat snugly in a round opening and to provide space between them for the passage of a bolt.

2,406,416
PAPER GARMENT
Frank D. Turner, Neenah, Wis., assignor of one-half to Howard D. Meincke, Chicago, Ill.
Application May 31, 1943, Serial No. 489,139
3 Claims. (Cl. 154—44)

1. A pliable fabric from which to manufacture a garment, such as a jacket and the like comprising a plurality of sheets of expanded cellulosic unwoven lining material with adjacent sheets in contact with each other over their entire area, a fabric backing and a surface sheet of soft multi-

ply crepe paper having the fibres oriented alike in the several plies and bonded together by a



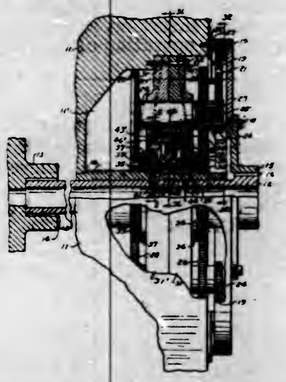
plastic binder, said sheet being soft, pliable and being stretchable in two directions.

2,406,417

TWO-SPEED DRIVE FOR SUPERCHARGERS

Gandolph J. Viviano, Ridgewood, N. J.

Application August 30, 1944, Serial No. 551,944
7 Claims. (Cl. 74—370)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a supercharger change speed gear drive including a drive shaft and an impeller shaft, a gear drive comprising a ring gear actuated by the drive shaft, a plurality of sets of gears mounted around said shafts, each set including a high speed gear and a low speed gear and an intermediate gear connected to rotate together, gears engaged and driven by said ring gear, one for driving each intermediate gear, a high speed clutch gear and a low speed clutch gear rotary on the impeller shaft and meshing, respectively, with the high speed gear and the low speed gear, and means operable for selectively operating through either said high-speed clutch gear or said low-speed clutch gear.

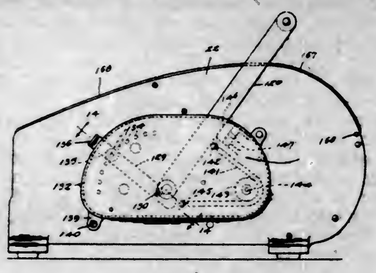
2,406,418

TAPE DISPENSING MACHINE

Lewis Walsen, New York, N. Y.

Application March 28, 1945, Serial No. 584,842
11 Claims. (Cl. 164—49)

1. In a tape dispensing machine including a housing formed with a supply roll chamber, a pair of roll supporting rollers in the lower portion of said chamber, a pair of vertical roll supporting plates in said chamber, a stationary shaft extending transversely across said chamber and loosely extending through said plates whereby said plates may be selectively spaced from each other, a plurality of rollers at the upper forward portion of said chamber, means supporting said latter rollers, said plates being notched at their



forward ends to engage over said latter supporting means, and said plates being engageable between selected ones of said latter rollers whereby said plates will be held in spaced parallel relation.

2,406,419

METHOD FOR TREATING FILAMENTS OF IONIZATION GAUGES

Harold W. Washburn and Harold Wiley, Pasadena, Calif., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

No Drawing. Application December 31, 1943, Serial No. 516,600
6 Claims. (Cl. 148—13.1)

1. In the treatment of metallic filaments adapted for service as electron emitters in ionization gauges, the improvement which comprises treating the filament with a liquid hydrocarbon and subsequently heating it in an evacuated envelope in the presence of a minute amount of the hydrocarbon adhering to the filament as a result of the prior treatment, thereby reducing gas sensitivity of the filament.

2,406,420

MANUFACTURE OF STABLE ALUMINA AND IMPREGNATED ALUMINA CATALYSTS

Harry B. Weiser, Houston, Tex., and Elgene A. Smith, Media, and Johnstone S. Mackay, Prospect Park, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 5, 1941, Serial No. 401,268
8 Claims. (Cl. 252—250)

1. Process of preparing alumina of high stability and resistance to disintegration comprising precipitating hydrous alumina from a solution containing an aluminum compound, subjecting the precipitate to "hot aging" for a period of at least ten minutes, at a temperature of above 125° F. to stabilize the alumina, washing the alumina until substantially free of soluble salts, subjecting the washed alumina to a grinding operation until at least 70% of it will pass a 400 mesh screen, forming the ground alumina in pieces for use, and heat treating the pieces so formed at a temperature between 1000° and 1600° F. whereby said pieces are of a hardness such that pellets 4 mm. in diameter prepared by the same process have a knife edge hardness of at least 3500 grams.

6. Process of preparing an alumina-molybdenum oxide catalyst of high resistance to disintegration and having a knife-edge hardness in 4 mm. size of at least 3500 grams which comprises precipitating hydrous alumina from a solution

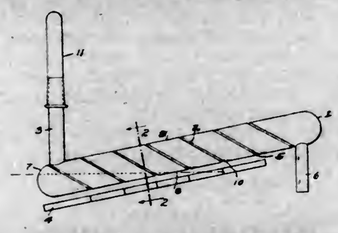
containing an aluminum compound, subjecting the precipitate to "hot aging" at a temperature of about 125 to 212° F. for a period of ten minutes to two hours but sufficient to stabilize the alumina, washing the alumina until substantially free of soluble salts, grinding the alumina until at least 70% of it will pass a 400 mesh screen, forming the ground alumina in pellets of desired size and shape, heat treating the pellets in the temperature range of 1000 to 1600° F. to activate the same, depositing in excess of 7% of molybdenum (determined as MoO_3) on said pellets in a single dip, and igniting the pellets to provide the finished catalyst, whereby said pellets are of a hardness such that test size pellets similarly formed and heat treated have a knife edge hardness of at least 3500 grams.

2,406,421

HIGH VACUUM FRACTIONATING STILL

Herbert J. Wollner, Washington, D. C., John R. Matchett, Berkeley, Calif., and Joseph Levine, Washington, D. C.

Application March 11, 1943, Serial No. 478,846
4 Claims. (Cl. 202—205)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



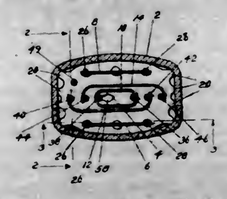
1. A multiple stage still comprising a generally cylindrical inclined tube having a plurality of walls extending from the bottom of said tube generally perpendicular to its axis, said walls being of such height as to provide a plurality of adjacent shallow film pool areas for containing a distilland with each successive pool progressively higher than its predecessor, means for creating a near perfect vacuum within said tube, means for evaporating distilland from said film pool areas, condensing surfaces overlying said film pool areas and means for directing the condensate derived from a pool to flow by gravity to the next higher film pool area.

2,406,422

ELECTRICAL SPACE DISCHARGE TUBE

Ross Wood, Waltham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application January 27, 1945, Serial No. 574,866
6 Claims. (Cl. 250—27.5)



2. In an electrical space discharge tube, the combination of a single filament cathode, a cooperating anode at each side of said cathode, a space charge grid surrounding said cathode, and two substantially parallel control grids, one between each of said anodes and said space charge grid, said control grids overlapping each other lengthwise of their grid members.

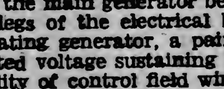
2,406,423

ORGANIC PHOSPHORUS AND NITROGEN CONTAINING COMPOUNDS

Willard H. Woodstock, Flossmoor, Ill., assignor to Victor Chemical Works, a corporation of Illinois

No Drawing. Application April 20, 1944, Serial No. 531,999
13 Claims. (Cl. 260—461)

1. A surface active composition consisting essentially of a compound of the formula:



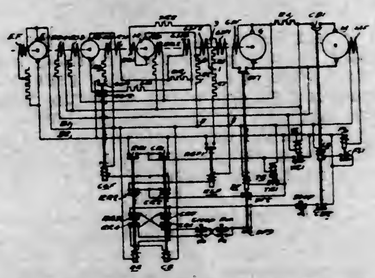
in which R', R^2 and R^4 represent a radical of the class consisting of hydrogen and an alkyl group, R^3 represents an alkyl group of at least 8 carbon atoms chain length, and R^5 represents an alkyl group of 1 to 4 carbon atoms chain length.

2,406,424

CONTROL SYSTEM

George E. King, Swissvale, Pa. assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

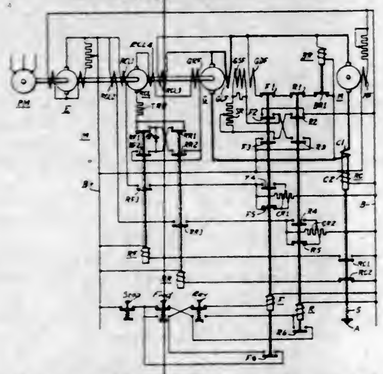
Application October 17, 1944, Serial No. 559,065
10 Claims. (Cl. 172—179)



10. In a variable voltage drive, the combination of, a motor, an armature winding and a field winding for the motor, a main generator, an armature winding and a pair of control field windings for the main generator, circuit means connecting the armatures of the main generator and motor in series circuit relationship, a first electrical bridge circuit, said pair of control field windings for the main generator being connected in opposite legs of the electrical bridge circuit, a first regulating generator, a pair of armature current excited voltage sustaining field windings and a plurality of control field windings for the first regulating generator, a second electrical bridge circuit, said pair of armature current excited field windings forming opposite legs of said second electrical bridge circuit, said first regulating generator being connected in series with the second electrical bridge circuit across the output terminals of said first electrical bridge circuit, a second regulating generator, an armature current excited voltage sustaining field winding and a control field winding for the second regulating generator, said second regulating generator being connected with the armature current excited field winding thereof across the output terminals of the second electrical bridge circuit, means for exciting two of the control field windings of the first regulating generator in depend-

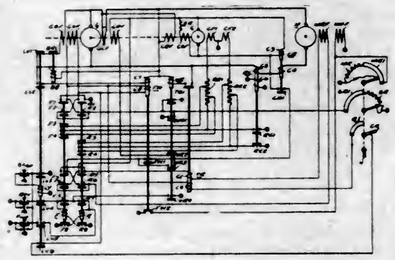
ence of certain of the electrical quantities of said motor, means for exciting the control field winding of the second regulating generator in accordance with an electrical quantity of the motor, and means for supplying direct current of constant value to a third control field winding of the plurality of control field windings for the first regulating generator, to the first electrical bridge circuit and to the motor field winding.

2,406,425
CONTROL SYSTEM
George E. King, Swissvale, Pa. assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 17, 1944, Serial No. 559,066
11 Claims. (Cl. 172—179)



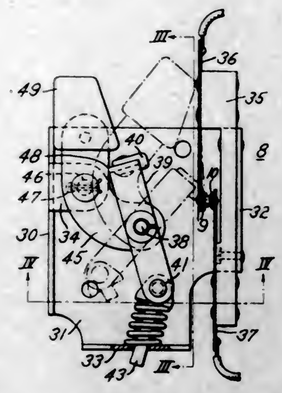
11. In a variable voltage drive, the combination of, a motor, a main generator for energizing the motor, field windings for the main generator, a first regulating generator, an armature winding and field windings for the first regulating generator, an electrical bridge circuit, a field winding of the main generator and a field winding of the first regulating generator being connected in series in one leg of the bridge circuit, another field winding of the main generator and another field winding of the first regulating generator being connected in series in an opposite leg of the bridge circuit, means for supplying electrical energy to the bridge circuit, circuit means including a resistor connecting the armature winding of the first regulating generator across the output terminals of the electrical bridge circuit, a third field winding for the first regulating generator connected cumulatively with respect to two windings thereof in the electrical bridge circuit to be energized according to the motor armature currents, a fourth field winding for the first regulating generator differentially connected with respect to said third winding to be energized according to the drop across the motor armature winding, a second regulating generator having an armature winding and field windings, means for selectively energizing two of the field windings of the second regulating generator according to whether the motor is accelerating or braking, means for energizing a third field winding according to the motor armature currents such that the ampere turns of the third field winding are always opposed to those of the selectively energized windings, means connecting a fourth field winding of the second regulating generator in series with its armature winding and a fifth field winding of the first regulating generator, and a rectifier disposed to oppose the armature voltage of the second regulating generator which results from the ampere turns of the selectively energized field windings.

2,406,426
CONTROL SYSTEM
George E. King, Swissvale, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 17, 1944, Serial No. 559,067
6 Claims. (Cl. 172—179)



6. In a variable voltage drive, the combination of, a motor, a main generator for supplying electrical energy to the motor, an auxiliary generator for effecting a control of the motor current, means for exciting said auxiliary generator in accordance with the motor current, means for producing a standard excitation in opposition to the excitation according to the motor current, and means operable when the excitation according to the motor current is the predominating excitation for selectively connecting the auxiliary generator to the main generator, to both the main generator and the motor and only to said motor.

2,406,427
INERTIA SAFETY SWITCH
Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 18, 1943, Serial No. 491,321
6 Claims. (Cl. 200—52)

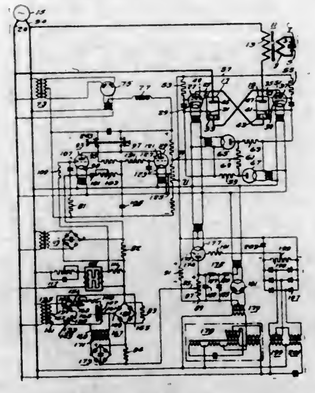


1. In an inertia responsive safety switch, in combination, a frame structure disposed on a device subject to rapid acceleration, a pair of normally spaced contact members mounted on the frame, an elongated member, a pivot center, said elongated member being pivoted intermediate its ends on the pivot center, over-center spring means bolting said member in either of two angular positions, depending on the position to which the member has been actuated, said elongated member being operable in one position to close said contact members, and an inertia member pivoted on the pivot center and operable when the frame is subject to acceleration a single time and in one direction only to actuate said elongated member to cause closing of said contact members, said inertia member being arranged so as to rest against said frame structure and forming a stop for said elongated member so that said spring means cause said elongated member to bias said inertia member against said structure when said elongated member is in position not closing said contact members.

2,406,428
METAL CONTAINING PLASTIC COMPOSITION
Christopher Luckhaupt, Jamaica, N. Y., assignor to Augustus R. Southworth, Englewood, N. J.
No Drawing. Application July 16, 1943, Serial No. 495,066
2 Claims. (Cl. 106—287)

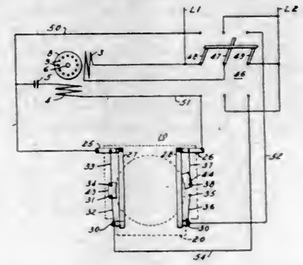
1. A plastic composition comprising a homogeneous aggregate of between about 49% and about 59% by weight litharge, between about 23% and about 33% by weight of finely divided metallic particles, and between about 15% and about 26% by weight glycerin.

2,406,429
ELECTRONIC CONTROL SYSTEM
John R. Mahoney, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1943, Serial No. 511,087
10 Claims. (Cl. 171—119)



1. For use in controlling the supply of current from a source of alternating potential to a load, the combination comprising electric valve means of the arc-like type interposed in circuit between said source and load, and control means for rendering said valve means conductive in successive half-periods of said source potential including manually adjustable means for preselecting the instant in a half-period at which said valve means is normally rendered conductive, means for varying said instant in a half-period in accordance with variations in the effective value of said source potential, and means for varying the ratio of the variation of said instant to the source potential variation in accordance with the adjustment of said preselecting means and with the power factor of said load.

2,406,430
REVERSIBLE SINGLE-PHASE MOTOR
Robert E. Mason, Sewickley, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1943, Serial No. 490,884
7 Claims. (Cl. 172—279)



6. A reversible single-phase induction motor having a main primary winding and an auxiliary primary winding, switch means for connecting said windings to a single-phase supply line, said switch means having two operating positions, a control device in the motor for controlling the connection of said auxiliary winding to the line, said control device including two contact means, one of said contact means being connected between the auxiliary winding and the switch means in one operating position of the switch means to connect the auxiliary winding to the line for one direction of rotation, and the other of said contact means being connected between the auxiliary winding and the switch means in the other operating position of the switch means to connect the auxiliary winding to the line for the opposite direction of rotation, means for alternatively short-circuiting one or the other of said contact means, means for actuating said short-circuiting means in response to the direction of rotation of the motor, and means for actuating both of said contact means substantially simultaneously at a predetermined speed of rotation of the motor in either direction.

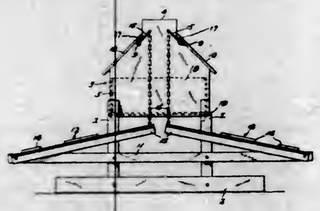
2,406,431
PROCESS FOR DEHYDRATING VEGETABLES
Martha W. Miller, Vacaville, Calif., assignor to Basic Vegetable Products Co., Vacaville, Calif., a copartnership composed of W. M. Hume and J. H. Hume
No Drawing. Application November 9, 1942, Serial No. 465,083
5 Claims. (Cl. 99—204)

1. The process of forming bricks from discrete pieces of onions, garlic having a moisture content of substantially three per cent by weight thereof that comprises subjecting said pieces to the direct influence of moist steam in an atmosphere of a temperature from about 125° F. to about 140° F. until they have absorbed moisture from about .2% to about .3% by weight thereof and substantially immediately thereafter compacting said pieces into brick form.

2,406,432
POULTRY FEEDER
Herman Niere, St. Louis, Mo.
Application January 26, 1944, Serial No. 519,800
1 Claim. (Cl. 119—62)

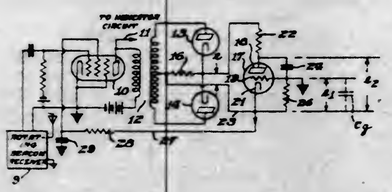
A poultry feeder of the character described comprising a plurality of supporting legs of angle

iron, a housing mounted in the upper portions of the legs and rising therefrom, said housing being open on opposite sides, said housing including a bottom, end walls rising from the bottom and an inverted channel-shaped top extending between the upper portions of said end walls, pivots in said end walls, closures mounted for vertical swinging movement on said pivots and adapted to rest on the end walls when in closed position, said closures projecting upwardly beneath the top of the housing, a removable trough for the reception of feed, slidable laterally into and out of the housing through one of the open sides thereof and adapted to rest on the bottom of said housing, portions of certain of the angle



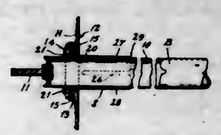
iron supporting legs being cut away for the passage of said trough into and out of the housing, transverse bars secured to said supporting legs, treadles comprised of transverse members and longitudinally extending treadle members therebetween, pivotally mounted between the extremities of said bars on both sides of said housing, the inner extremities of said transverse treadle members terminating at points adjacent the longitudinal center line of said housing, but clear of the ends of said housing thereof, and arms secured to said pivots in said end walls and chains connecting the outer extremities of said arms with the inner extremities of said transverse treadle members, said chains being positioned exteriorly of the ends of the housing.

2,406,433
AUTOMATIC GAIN CONTROL
Lowell E. Norton, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 28, 1942, Serial No. 428,538
9 Claims. (Cl. 250—20)



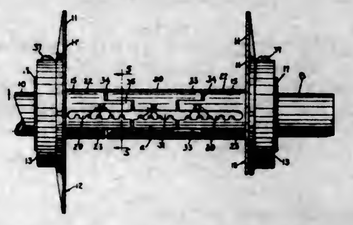
1. In combination, an amplifier for amplifying a signal having an undesired modulation thereon, a rectifier coupled to said amplifier to produce a rectified output signal comprising voltages pulses that have amplitudes determined by said modulation, means for clipping said pulses at a voltage level which varies in accordance with variations in the amplitudes of said pulses, and means for applying said clipped pulses in negative feedback relation to said amplifier for controlling its gain.

2,406,434
WARP BEAM
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 13, 1945, Serial No. 582,551
9 Claims. (Cl. 242—124)



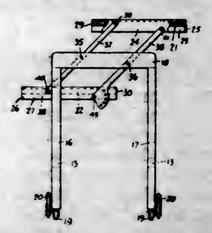
1. In a warp beam having a barrel and a warp head on said barrel, means connected to said head and extending along said barrel and having parts thereof spaced circumferentially and capable of being forced into holding relationship with respect to the barrel by warp threads wound around said parts.

2,406,435
WARP BEAM WITH WARP HOLDING MEANS
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application June 30, 1945, Serial No. 602,437
7 Claims. (Cl. 242—124)



1. In a warp beam having a barrel and a warp head, a sleeve connected to the barrel and extending along the barrel and having a longitudinal slot permitting the sleeve to be forced into holding relation with the barrel by the warp threads to prevent slipping of the head along the barrel, and warp holding means extending from the sleeve into said slot.

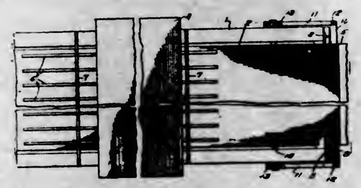
2,406,436
COLLAPSIBLE TABLE
Kurt Peter, Bronx, N. Y., assignor to Ralph Kurt Peter, Bronx, N. Y.
Application October 17, 1944, Serial No. 559,000
4 Claims. (Cl. 211—3)



3. A table having two table top halves, two side frame members, one at each end of said table, two sets of arms pivotally connected to the table top halves, one set at each end, the arms of one set being spaced apart from the other set, said arms being fulcrumed in staggered position on the frame members, the fulcrum means of

one set of arms being arranged at a greater height than the fulcrum means of the other set of arms, a semi-circular enlargement at one end of one set of arms, said enlargement being provided with perforations therein, a locking member fulcrumed to the underside of one of said table top halves, locking rods pivotally connected to the said locking member and adapted to engage said perforations, whereby to secure the two table top halves in a plurality of predetermined horizontal, parallel positions, and brackets for slidably connecting said locking rods to one table top half underneath the latter.

2,406,437
CHOCOLATE DIPPED PEANUT ATTACHMENT
Frank Petrovic, Chicago, Ill., assignor to E. J. Brach & Sons, Chicago, Ill., a corporation of Illinois
Application June 10, 1942, Serial No. 446,517
11 Claims. (Cl. 91—3)



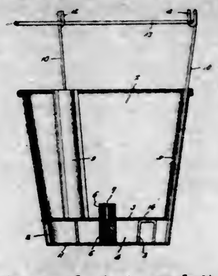
3. Mechanisms for attachment to confection-enrobing machines of that type in which confection centers are carried through a coating compartment on an endless conveyor belt and having a driving roll for said conveyor belt comprising in combination, means above the belt engageable with the centers placed thereon to separate the centers laterally with respect to each other into longitudinally extending rows to prevent laterally adjacent coated centers from sticking to each other after passing through the coating compartment, means below the upper flight of the conveyor belt and engageable with the latter to vibrate the same to separate adjacent coated centers in each row longitudinally with respect to each other to prevent them from sticking together, and means adapted to be located between said vibrating means and the conveyor belt driving roll for damping the vibrations of said conveyor belt to provide a smooth, continuous and unbroken movement of the conveyor belt in spite of the action of the vibration means thereby to maintain separation of adjacent coated centers and prevent clustering thereof.

2,406,438

WITHDRAWN

2,406,439
FLOWERPOT
Robert K. Pratt, Sr., Healys, Va.
Application January 26, 1944, Serial No. 519,786
1 Claim. (Cl. 47—33)

A flower pot of the character described comprising a container, a formed bottom defining a chamber in its lower portion for the reception of water, said container being tapered from its top to its bottom, ventilating conduits in the container on the walls thereof communicating with the water chamber, upwardly diverging rods slidably mounted in the conduits, hooks on the upper ends of the rods, a plant-supporting ring mounted in said hooks, and a gauge rod adapted



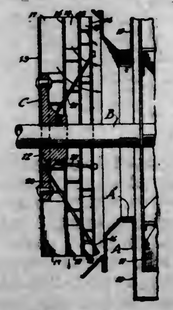
for insertion in a selected conduit while its associated rod is positioned therein, for indicating the depth of water in said chamber.

2,406,440
BRAKE
Christian H. Sauer, Chico, Calif., assignor to J. T. Aim, Chico, Calif.
Application May 8, 1943, Serial No. 486,174
20 Claims. (Cl. 188—33)



1. In a wheel mounted vehicle including a spring supported body carried by the wheels and brakes for the latter, a fluid pressure actuated mechanism including an element connected with said brakes and movable in one direction under the influence of said fluid pressure for applying said brakes, a body depressing member connected with said body and with said element, means mounting said member for downward movement upon said movement of said element in said one direction whereby said member will pull downwardly on said body when said brakes are applied by actuation of said fluid pressure mechanism, said element being actuatable by said fluid pressure for applying said brakes and for so moving said member independently of the torque force transmitted to said brakes by said wheels when the latter are rotating and the brakes are applied.

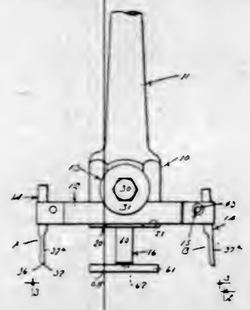
2,406,441
SEPARATING APPARATUS
Claude B. Schneible, Detroit, Mich.
Application April 13, 1942, Serial No. 438,741
2 Claims. (Cl. 183—77)



1. In apparatus in which a casing is provided with an outlet opening and a rotatably-mounted shaft extends in front of said opening, a cen-

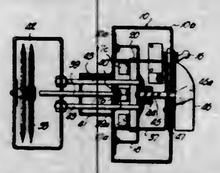
trifugal separator wheel carried by said shaft and having a central opening communicating with said outlet opening, said wheel comprising a hub carried by said shaft, an end plate closing the inner end of said wheel, annular plates spaced from each other and said end plate, vanes between said plates forming longitudinally-spaced cells of varying cross section and through which the medium must pass to reach the central opening of said wheel, said longitudinally-spaced cells being shorter and narrower toward said outlet opening.

2,406,442
FLY CUTTER
Lawson A. Smith, Los Angeles, Calif., assignor to Robert H. Clark, Los Angeles, Calif.
Application August 11, 1943, Serial No. 498,214
7 Claims. (Cl. 77—69)



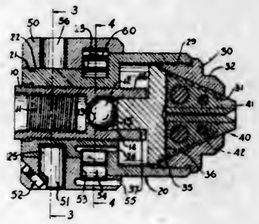
7. A cutter of the character described including a central elongate body having laterally opening transversely disposed cutter carrying channels formed in it at diametrically opposite sides to be parallel to each other and adjacent the lower end of the body, arms slidably carried in the channels to project laterally from the body, means on the sides of the body overlying the outer sides of the arms for clamping the arms in the channels laterally of the body against movement in the channels, and cutters carried by the projecting end portions of the arms to depend therefrom.

2,406,443
THERMOSTATIC SWITCH
Frederick W. Stein, Atchison, Kans.
Application January 1, 1944, Serial No. 516,628
1 Claim. (Cl. 200—140)



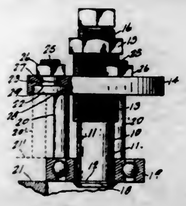
A thermostatic switch comprising a housing, a normally closed electrical switch within the housing, a wafer sensitive to temperature variations, a pin slidably mounted between the switch and the wafer adapted to coact with the wafer to open said switch, a frame carrying said wafer, guide rods slidably mounted in said housing supporting said frame at one end, a crosshead within the housing mounted on the other end of said guide rods, a dial calibrated with a temperature scale mounted on the face of said housing, a rotatable shaft screw-threadedly engaging said crosshead and extending through the center of said dial with an indicator mounted on its extending end, means for preventing longitudinal movement of said shaft whereby rotation of said indicator to any desired point on the calibrated dial adjusts the position of said wafer relative to the distal end of said pin causing the switch to be opened when the temperature of the media surrounding said wafer corresponds to that indicated on said dial.

2,406,444
CHUCK RELEASE MECHANISM
Arthur Merrick Stoner, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application March 14, 1945, Serial No. 582,737
7 Claims. (Cl. 279—48)



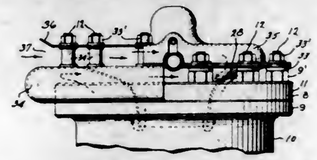
1. In the type of chuck which is arranged to be rotated in one direction to drive a tool, a gripping member and means for moving the gripping member into engagement with a tool, and in which resistance to the rotation of the tool, actuates said means to tighten the engagement of the gripping member, a release mechanism comprising a rotatable shock sleeve, a spring biased to rotate the sleeve in the driving direction of the chuck, means for limiting the rotation of the sleeve in one direction so arranged that the sleeve may be rotated against the action of the spring and that the spring may return the sleeve and impart a hammer blow between said interengaging means.

2,406,445
BEARING REMOVING TOOL
Charles L. Thompson, Oakland, Calif.
Application June 27, 1945, Serial No. 601,731
3 Claims. (Cl. 29—283)



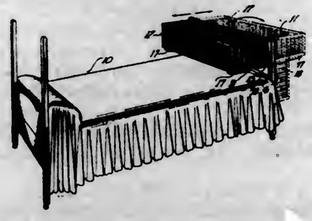
1. In a bearing extractor having a thrust plate, legs adjustably mounted in said thrust plate for adjustment relative to the axis of the extractor and adjustable at will for cooperation with the surface of the bearing housing irrespective of its width or the outside diameter of the bearing within the limits of adjustment, and in which said thrust plate has three equi-angularly spaced bores each with a co-axial counterbore, and each leg consists of a disc rotatably fitting in the counterbore and having a shaft extending from one face through the bore and threaded at its terminal end, and a leg eccentrically projecting from the opposite face, whereby rotation of the shaft and disc adjusts the span between the legs; a nut for each shaft and having a lever arm for adjustment thereof, and a lever arm for each shaft for adjustment of the leg.

2,406,446
INTERNAL-COMBUSTION ENGINE
Marsden Ware, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application February 26, 1940, Serial No. 320,798
4 Claims. (Cl. 123—171)



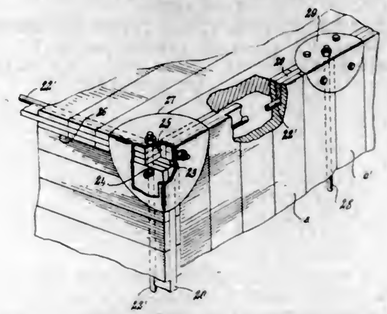
1. In an engine, a cylinder head having a well extending inwardly thereof in an axial direction, a plurality of fins extending radially in the well and fixed to the head, said fins projecting outwardly of the well beyond the outer wall of the head, a collar projecting part way into the well and contacting the inner edges of the fins, said collar having a flared outer end seated against the edges of the fins projecting beyond the head, the forward portion of the flared outer end of the collar extending beyond the periphery of the head and bent downwardly below the portions of the fins projecting beyond the cylinder head, a fuel injection nozzle fixed in the well and projecting into and in spaced relation with the collar, and a cover enclosing the flared end of the collar, said cover having a forward portion spaced above the collar to form an air inlet mouth therebetween.

2,406,447
CRIB ATTACHMENT FOR BEDSTEADS
Andrew S. Waters, Dallas, Tex., assignor of one-half to Josephine Shorter, Dallas, Tex.
Application July 31, 1943, Serial No. 496,865
1 Claim. (Cl. 5—95)



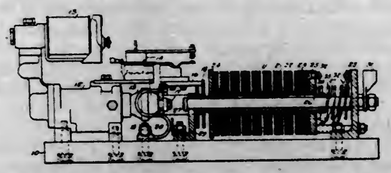
A crib attachment for bedsteads comprising in combination with the foot posts of a bedstead, a rod extending horizontally between said foot posts, rollers mounted on said rod, a crib frame resting along one side on said rollers, straps extending transversely of said frame at the underside thereof near each end to constrain said crib to roll on said rollers within predetermined limits, a link detachably pivoted to each end of said crib and having slidable connection to said foot posts at a point below said rod to support said crib frame in adjusted positions forwardly and rearwardly of said foot posts.

2,406,448
SHIPPING CASE OR CRATE AND SHOOK THEREFOR
Georg. G. Wheat, Brooklyn, N. Y.
Application June 4, 1940, Serial No. 338,710
2 Claims. (Cl. 20—4)



1. In a shook or panel, a plurality of wood pieces of equal length having a pair of spaced tongues on one longitudinal edge and a pair of grooves in the opposite longitudinal edge and a wood piece having a tongue and a groove on one longitudinal edge and a pair of grooves in the opposite longitudinal edge, and all of the wood pieces having a mortise in the opposite ends extending in the direction of the width and transversely of the grain thereof midway the thickness of the wood pieces, and said wood pieces assembled and joined in edgewise relation by the tongues and grooves with the mortises disposed in alinement and the one wood piece with the tongue and groove on the same longitudinal edge disposed intermediate the assembled wood pieces and said groove opposed to a groove in the edge of the adjacent wood piece and forming therewith a passage extending in a direction longitudinally of said wood pieces, and splines of a width less than the depth of and engaged in the mortises to extend transversely of the assembled wood pieces adapted to take up the stresses of forces transmitted laterally of the assembled wood pieces, and said splines spaced from and forming with the bottom portion of the mortises tunnels extending transversely of the assembled pieces adapted for the engagement of means to draw the assembled wood pieces together in edgewise relation.

2,406,449
SWITCHING APPARATUS
Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 29, 1944, Serial No. 542,735
5 Claims. (Cl. 201—51)



1. In an electric switch, in combination, a carbon pile having a plurality of undercut carbon discs and a plurality of pairs of flat carbon discs disposed to make contact at their edges when compressed together to establish an electric circuit through the switch, each pair of flat discs being disposed between two of the undercut discs,

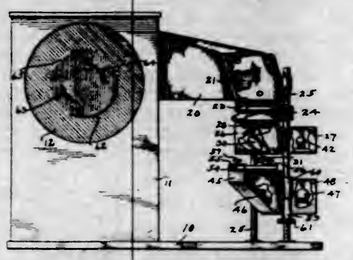
and spacing means disposed between certain of said discs to cause them to be deflected toward each other when compressed axially, said spacing means having a smaller diameter than said discs.

2,406,450
VANITY FOR AUTOMOBILE COMPARTMENTS
Samuel J. Winslow, Providence, R. I.
Application August 17, 1945, Serial No. 611,033
3 Claims. (Cl. 132—79)



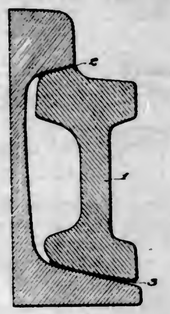
1. In a vanity for automobiles and the like a box-like casing having an opening in its front face, a slide mounted in said casing for movement in and out of said opening, a frame and mirror pivoted to the forward edge of said slide and normally carried on the upper surface of said slide, the said slide also carrying a drawer on its under surface, means on the slide to prevent its removal from the casing, means also on the slide to prevent the removal of the drawer from the slide; the pivoted frame capable of being supported against the forward end of the casing when pulled out from the casing and raised from its normal position; and the drawer slideably movable with relation to both the casing and its slide.

2,406,451
OPTICAL MEANS FOR INSPECTION
Robert F. Borkenstein, Indianapolis, Ind.
Application December 31, 1943, Serial No. 516,373
2 Claims. (Cl. 88—24)



1. In a projection apparatus for indicating and giving proportional measure of discrepancies only between outline contours and surfaces of physical objects and standard sized and shaped negative images of the objects, the combination of a screen; a single projecting objective lens; a holder for an object; a negative of the object in standardized form; means for setting up a projection beam from the object held by said holder; means for setting up a projection beam from said negative; transparent mirror means combining both of said projecting beams into a single projection beam through said lens to said screen; and means for adjusting said object holder relative to said negative, transversely in respect to said single projection beam to match as nearly as possible the images from the negative and the object as indicated by the minimum attainable areas of black and white on the screen; whereby said single projection beam produces on said screen a resultant image displaying discrepancies only between said object and said negative; and a color filter plate interposed across the path of the projection beam from said object before combination with said negative beam to produce a corresponding color area modified by said negative beam to be limited by marginal portions to have said discrepancies appear as black and white areas in accordance with oversize and undersize conditions of the object.

2,406,452
LUBRICATED RAIL JOINT
Eugene W. Caruthers, Secane, Pa.
Application March 9, 1944, Serial No. 525,779
1 Claim. (Cl. 238—161.5)



Means for lubricating rail joint structures including joint bars fitting within the fishing spaces of adjacent rail ends, said means comprising, a lubricant carrier of temporary characteristics constituted by a strip of rupturable foraminous non-metallic material having the interstices filled with lubricant, said strip being of such thinness as not to alter the initial or subsequent fit of the bars relative to the rail when the strip is interposed between the head and foot fishing surfaces of the joint bars and the related fishing surfaces of the rail, and whereby, when the joint bars are drawn tight under bolt pressure, the lubricant on the carrier is forced into the contacting metal surfaces of the bar and rail and the break-down of the carrier is effected.

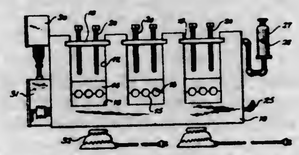
2,406,453
TREATMENT OF PAPER OR TEXTILE FABRICS
William Charlton, Stanley Graham Jarrett, and Eric Everard Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 8, 1944, Serial No. 525,603. In Great Britain February 15, 1943
8 Claims. (Cl. 117—139.5)

1. A process for treating fibrous material which comprises applying to said material an aqueous solution of a member of the class consisting of persulfuric acid and water soluble persulfates, exposing said material while moist with water to the vapor of a readily polymerizable compound containing the group $CH_2=C$: in the further presence of a member of the class consisting of water soluble oxy-acids of sulfur with reducing properties and water soluble salts of oxy-acids of sulfur with reducing properties and simultaneously polymerizing said polymerizable compound on said material during the exposure of said material to said vapor.

2,406,454
TREATMENT OF PAPER OR TEXTILE FABRICS
William Charlton, Stanley Graham Jarrett, and Eric Everard Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 8, 1944, Serial No. 525,604. In Great Britain February 15, 1943
9 Claims. (Cl. 117—139.5)

1. A process for treating a fibrous material which comprises applying to said material a monomeric, readily polymerizable compound containing the group $CH_2=C$: distributed in a liquid medium comprising an ionizing liquid, and effecting polymerization in the presence of a polymerization catalyst taken from the class consisting of persulfuric acid and water soluble persulfates, together with a member of the class consisting of sulfurous acid, water soluble salts of sulfurous acid, water soluble hydrosulfites and water soluble pyrosulfites.

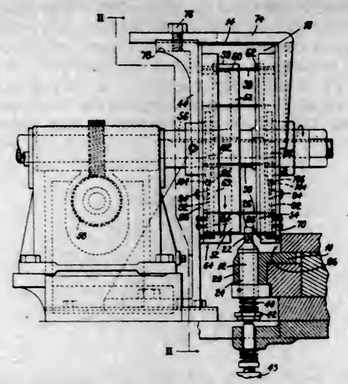
2,406,455
VULCANIZING UNIT
Cyril D. Davidson, Washington, Pa.
Application February 5, 1945, Serial No. 576,266
1 Claim. (Cl. 18—6)



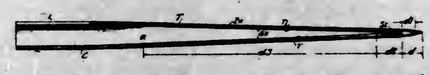
In a device of the character described, in combination, a receptacle forming a water jacket having transverse channels of substantially rectangular cross section therein, separable upper and lower mold blocks positionable slidably in said channels, means forming a plurality of aligned grooves in each of said mold blocks, the grooves in each upper and lower mold block coacting to form a plurality of cylindrical bores adapted to receive a plurality of strands of a cable for simultaneous vulcanizing means forming grooves in the side walls of said channels, apertured plates slidable in said grooves, screws extending through said apertures in said plates, movable to compress said upper mold blocks against said lower mold blocks, means for heating the water in said water jacket, thermostatic means for controlling said heating means, and a safety valve on said water jacket.

2,406,456
FISHHOOK MAKING MACHINE
William J. De Witt and Herbert A. Corbett, Auburn, N. Y., assignors to Shoe Form Co. Inc., Auburn, N. Y., a corporation of New York
Application June 29, 1944, Serial No. 542,710
10 Claims. (Cl. 29—9)

1. A fishhook making machine comprising a rotatable turret, a plurality of chucks mounted upon the turret, stationary platforms extending upon opposite sides of the path of movement of the chucks, a magazine for holding fishhook blanks, a drum located adjacent to the platforms and to the magazine, grooves in the drum for receiving blanks from the magazine, means for rotating the drum to feed the blanks one at a time from the magazine to the platforms, and intermittently operated feed fingers for advancing each blank from the platforms to a chuck.



2,406,457
REINFORCED PROPELLER BLADE
Louis H. Enos, Montclair, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application September 3, 1943, Serial No. 501,190
3 Claims. (Cl. 170—159)



1. A hollow metallic propeller blade comprising plates having aerfoil configuration and disposed in facing relation to form an interior chamber said plates decreasing in thickness gradually from shank to tip, each of said plates having an integral rib which projects into said chamber, each rib increasing in height as the thickness of the plates decreases by an amount substantially equal to the gradual decrease of the thickness of the plate, and each rib being free of contact with the other rib.

2,406,458
METHOD OF REMOVING RUBBER FROM METAL
Paul G. Gerndt and John A. Hannum, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 15, 1944, Serial No. 545,204
3 Claims. (Cl. 134—42)

1. The method of removing a rubber from metal in a structure in which the rubber is adhered to metal which comprises subjecting the composite rubber and metal structure to the action of material selected from the group consisting of ammonia, monomethylamine, dimethylamine and monoethylamine, and thereafter mechanically separating the rubber from the metal.

2,406,459
CLOSURE FASTENER
George R. Gibson, Brookfield, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application November 16, 1944, Serial No. 563,682
5 Claims. (Cl. 292—39)

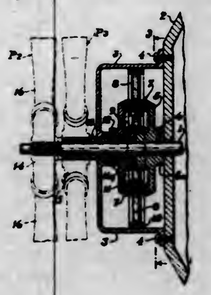
1. Closure fastening means comprising a latch bolt carried by the closure for linear projection

and retraction relative thereto and having its rear face beveled so that by engagement thereof with a keeper during closing of the door the bolt is retracted, a stem extending inwardly from said bolt and having therein a slot extending longitudinally thereof, a tube in the outer end portion of which said stem is slidably mounted a pin fixed with respect to said tube and extending through said slot, said tube having therein a slot extending



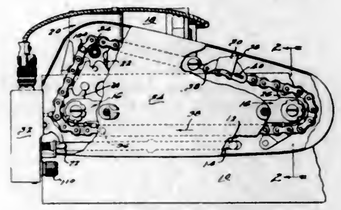
longitudinally thereof, a pin extending through the slot in said tube and fixed with respect to the closure, an expansion spring disposed within said tube and interposed between said second-mentioned pin and the adjacent end of said stem and constantly urging said tube outwardly and said bolt outwardly relative to said tube, and means for manual actuation to move said tube inwardly and thereby retract said bolt.

2,406,460
DUAL ROTATION PROPELLER SYSTEM
Ralph M. Guerke, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application February 15, 1943, Serial No. 476,019
1 Claim. (Cl. 170—135.5)



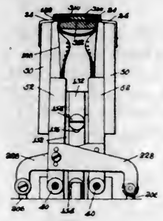
A propeller system comprising propellers arranged in tandem formation, an engine, a shaft driven thereby for operating one propeller, a sleeve rotatable on said shaft for operating the other propeller, gearing disposed between said engine and the propellers for rotating said sleeve oppositely as regards the rotation of said shaft, the ratio of the speeds of rotation of said shaft and sleeve being fixed, one of said propellers having its blades thicker than the other and of a substantially different resonant period from the other, whereby their respective resonant periods occur at substantially different rotative speeds, each of said propellers having the same number of blades as the other propeller and means for transmitting the unbalanced moments and forces resulting from aerodynamic excitation to said engine and its mount, said means comprising a thrust-receiving member for said shaft and said sleeve, said thrust-receiving member being associated with said engine.

2,406,461
MACHINE GUN RECHARGER
Kemper M. Hammell, Detroit, Mich., assignor to Eureka Williams Corporation, a corporation of Michigan
Application December 18, 1943, Serial No. 514,849
13 Claims. (Cl. 89—1)



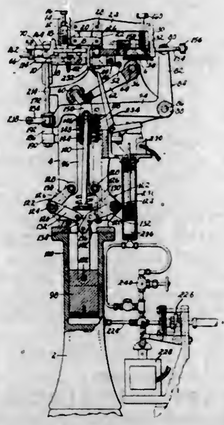
1. A recharger for an electrically controlled machine gun adapted to be fired by the closing of a firing circuit, a trigger switch operable for closing said firing circuit, said machine gun having a reciprocable bolt adapted to be retracted normally by the recoil of a fired shell, said recharger comprising a member movable through a cycle and in its movement through said cycle being engageable with said bolt for retracting the same and being constructed and arranged to release said bolt in its retracted position in order to restart the operation of said gun if said firing circuit is closed, an electric motor, a driving connection between said motor and member for moving the latter through its cycle during operation of said motor, an electric circuit in which said motor is included, a relay including a switch in said motor circuit and a coil, one side of said coil being connected to the high potential side of said motor circuit, said coil upon being energized functioning to open said switch in said motor circuit, the closing of said firing circuit by said trigger switch functioning to initiate the operation of the machine gun and the reciprocation of said bolt, means operable upon the closing of said firing circuit to deenergize said coil, the drop out time of said relay coil being greater than the period of reciprocation of said bolt, and means including a circuit for said coil having a normally open switch provided with an actuating member positioned in the path of said bolt and constructed and arranged to be actuated thereby normally to close said switch momentarily and periodically during the reciprocation of said bolt for energizing said relay coil sufficiently frequently to keep said relay switch open, failure of said gun to operate when said trigger switch is closed causing the deenergization of said coil and the resultant closing of said motor circuit, thereby to initiate a cycle of operation of said recharger to effect the retraction of said gun bolt.

2,406,462
MACHINE FOR USE IN THE MANUFACTURE OF PREWELT SHOES
Eric A. Holmgren, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 26, 1942, Serial No. 466,975
31 Claims. (Cl. 12—1)



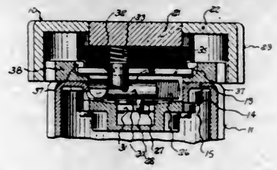
7. In a machine for use in the manufacture of prewelt shoes, an inner form for supporting a prewelt upper by its welted margin, said form being reversible for operation on right and left uppers, and means for wiping the welted margin in over the margin of said form.

2,406,463
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application December 30, 1943, Serial No. 516,253. Divided and this application January 8, 1945, Serial No. 571,747
19 Claims. (Cl. 12—12)



1. In a lasting machine, overlaying members movable to lay the margin of an upper inwardly over an insole on a last at the opposite sides of the last respectively, lever mechanism movable to operate said members, retarders movable outwardly over the insole in response to the movement of said lever mechanism for clamping the margin of the upper against said overlaying members to control it in the lasting operation, a shoe rest movable heightwise of the shoe into position to support the shoe at the top of the forepart during the operation of said overlaying members and retarders on the upper, controlling mechanism connected to said shoe rest, means bodily movable to operate said lever mechanism, and cam means carried by said bodily movable means for operating said controlling mechanism to move the shoe rest into shoe-supporting position in predetermined time relation to the movements of the overlaying members and retarders.

2,406,464
LOCK DEVICE
Meyer Katz, Canoga Park, Calif.
Application August 24, 1945, Serial No. 612,359
6 Claims. (Cl. 70—169)



1. A locking cap of the character described comprising: a lock body; a pair of lock bolts mounted on the lock body for movement transversely thereof in opposite directions; spring means biasing the lock bolts to operative positions projecting outwardly of the lock body; latch means for releasably holding the lock bolts in retracted positions; trigger means guided on the exterior of the lock body for motion longitudinally thereof and engageable with the end portion of a fill spout to which the cap is applied; and a connection between said trigger means and the latch means whereby motion of the trigger means along the lock body produced by pressing the cap on the end portion of the fill spout effects disengagement of the latch means from the lock bolts so as to free the bolts for spring propelled motion to their operative positions.

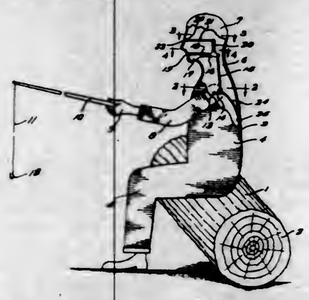
2,406,465
TITANIUM OXIDE PIGMENT PRODUCTION
John Lewis Keats, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 9, 1942, Serial No. 426,251
17 Claims. (Cl. 23—202)

1. A process for obtaining a rutile titanium oxide pigment through calcination and conversion of anatase, which comprises admixing with previously prepared anatase TiO_2 a minor amount of a separately prepared titanium-oxygen compound rutile promoter which when calcined alone at a temperature not in excess of substantially 900° C., exhibits substantially the X-ray diffraction pattern of rutile, and then calcining the resulting mixture at a temperature sufficient to develop the pigment properties thereof but not exceeding about 1000° C.

2,406,466
TOY FISHERMAN
Lynn C. Kester, Hereford, Tex.
Application December 28, 1945, Serial No. 637,542
4 Claims. (Cl. 46—119)

1. A device of the character described comprising a base, a figure supported upon the base in seated position and having a body formed with a neck and head at its upper end, the head having eye openings and having a lower jaw pivotally mounted for opening and closing movement, a shaft extending through the body with ends protruding from opposite sides thereof and within the body being formed with a rearwardly extend-

ing crank, arms fixed to the protruding ends of the shaft and extending forwardly and having hands at their front ends, a fishing rod carried by the hands of said arms and provided with a depending line at its front end, a lever extending rearwardly from the pivoted jaw, a link extending vertically through the neck and having its lower end pivoted to the crank of said shaft and its upper end pivoted to the rear end of said lever, an upright member extending upwardly from said lever, a member in the head extending horizontally between front and rear portions of the head and having its rear ends connected with the



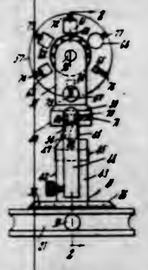
upper end of the upstanding member and provided at its front end with eyes movable through the eye openings of the head from a normally retracted position to a forwardly protruding position when the lever is swung upwardly and the jaw swings downwardly to an open position, and a strip of resilient metal secured at one end to the back of the body and extending upwardly and forwardly with its upper end portion overlapping the crank to yieldably hold the crank in a normal position and yieldably hold the arms in a normal position and the jaws closed and the eyes in their normal position.

2,406,467

FIXTURE FOR GRINDING WHEEL AND TOOL FORMS

Edward M. Looney, Watertown, Mass.

Application August 5, 1944, Serial No. 548,157
4 Claims. (Cl. 51—220)



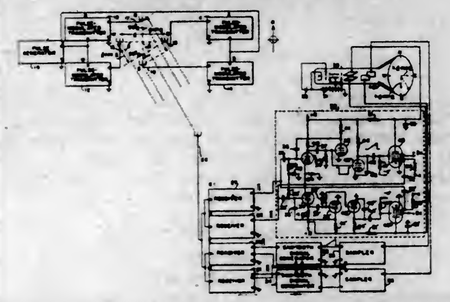
1. In a tool holding fixture, in combination, a base, a member rotatably mounted on said base for horizontal rotation, a standard carried on said horizontally rotatable member extending at substantially a right angle to said base, an annular member rotatably mounted in said standard for vertical rotation with respect to the horizontally rotatable member, a second standard carried by said annular rotatable member and when vertically extended rotatably mounted for horizontal rotation with respect to said annular member, said second standard extending radially from the periphery of the annular member and having its axis of rotation always in the same plane as the axis of rotation of the first standard, and a tool holding member mounted for vertical rotation on said second standard when said second standard is vertically extended and having its axis of rotation intersecting the axis of rotation of the second standard.

2,406,468

DIRECTION-INDICATING SYSTEM

Bernard D. Loughlin, Bayside, N. Y., assignor, by mesne assignments, to Haseltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application September 15, 1944, Serial No. 554,231
26 Claims. (Cl. 250—11)



1. In a radiant-energy system of the type which effects the translation of direction-indicative modulation signals at least one of which is of pulse wave form over at least two space paths extending between an antenna of one antenna system and individual spaced antennas of another antenna system, a direction-indicating device for indicating with relation to a predetermined reference plane the direction of one of said antenna systems relative to the other comprising, means for receiving said modulation signal of pulse wave form translated over one of said space paths, means responsive to the modulation signal translated over the other of said space paths for providing a reference signal of saw-tooth wave form having a characteristic which varies with time, means responsive to said received modulation signal of pulse wave form for evaluating said reference signal to derive therefrom a control signal having a characteristic varying with the relative lengths of said space paths, and means responsive to said control signal for indicating said direction.

2,406,469

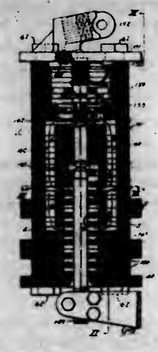
CIRCUIT INTERRUPTER

Leon R. Ludwig and Winthrop M. Leeds, Wilkinsburg, and Benjamin P. Baker, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 11, 1942, Serial No. 465,244
2 Claims. (Cl. 200—150)

1. In a circuit interrupter, a relatively stationary contact, an intermediate contact, a moving contact, the intermediate contact being cooperable with the stationary contact to produce a pressure-generating arc, the intermediate contact being cooperable with the moving contact to draw an interrupting arc, passage means extending between the pressure generating arc and the interrupting arc, a piston operatively connected to the intermediate contact and movable therewith, the piston making a comparatively

tight fit with the walls of the passage means during the initial movement thereof, an enlarged portion in the passage means operative after the piston has neared the end of its travel to permit



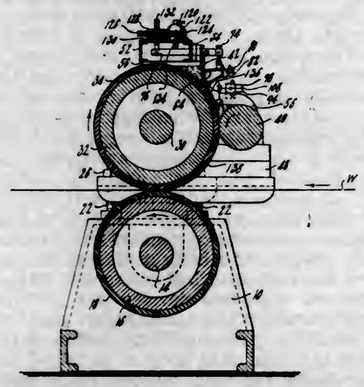
a by-passing of fluid past the piston, the fluid pressure created by the pressure generating arc assisting in the extinguishment of the interrupting arc.

2,406,470

COATING APPARATUS

William D. Maxim, Glens Falls, and Edward Hutchins, Corinth, N. Y., assignors to International Paper Company, a corporation of New York

Application April 4, 1944, Serial No. 529,434
7 Claims. (Cl. 91—49)



1. In coating apparatus of the type in which a pond of coating material is maintained within the nip between a pair of tangentially contacting rolls, the combination of means for supplying to said pond coating material in the form of a film substantially evenly distributed throughout the width of one of said rolls and means for varying the thickness of said film in response to changes in level of said pond to maintain said level substantially constant.

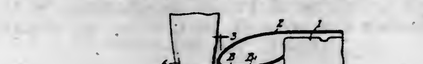
2,406,471

REINFORCED PROPELLER BLADE

James H. McKee, North Caldwell, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application July 26, 1943, Serial No. 496,232
4 Claims. (Cl. 170—159)

1. A metallic propeller blade comprising plates disposed in facing relation and forming an interior chamber, a longitudinally extending rib integrally formed with each of said plates, the taper of each of said plates decreasing and the height of each of said ribs increasing in a direction extending longitudinally along the propeller blade toward the tip thereof the height and thickness combined being substantially the same as the thickest part of the respective plates, adjacent facing surfaces of said ribs being disposed substantially in contact with each other near the



tip of said propeller blade, other facing surfaces of said ribs being substantially spaced apart in a progressively increasing manner throughout a longitudinal section of the propeller blade removed from the tip thereof, a tapered connecting member between the facing surfaces second named, and metallic fusion bonding means for securing the facing surfaces first named directly together and for securing said connecting member to the facing surfaces second named.

2,406,472

MANUFACTURE OF CADMIUM YELLOW PIGMENTS

Ludwig Francis Nerlinger, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 23, 1944, Serial No. 564,899
5 Claims. (Cl. 106—301)

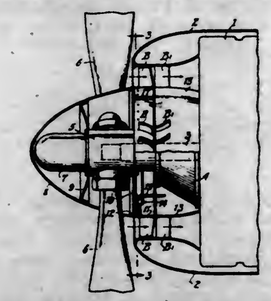
1. A process for producing an improved cadmium sulfide pigment which comprises precipitating cadmium sulfide by reacting sulfate with barium sulfide in the presence of an aqueous slurry suspension of raw lithopone pigment consisting of a co-precipitated mixture of zinc sulfide and barium sulfate, and then recovering and calcining the resulting zinc-containing cadmium sulfide product at a temperature ranging from 600–750° C.

2,406,473

FAN DE-ICING OR ANTI-ICING MEANS

Everett P. Palmatier, Upper Montclair, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

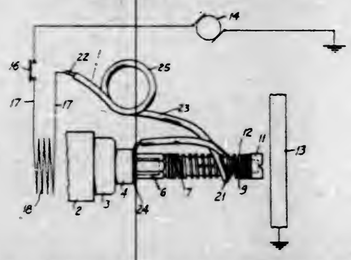
Application September 3, 1943, Serial No. 501,187
1 Claim. (Cl. 244—134)



In an aircraft, in combination, a streamlined spinner, an annular cowling concentrically surrounding said spinner and defining therewith an annular air entrance channel, a rotary fan comprising a hub whose surface is contiguous with the spinner surface, having a large plurality of fan blades extending therefrom and sweeping said annular channel, a stator fan comprising a large plurality of stationary fan blades disposed in a

plane parallel to the rotary blades and extending across said annular entrance in series relation with the rotating blades, an annular collector within said rotary fan hub rotatable therewith, means to feed a de-icing fluid thereto, ducts leading from said collector outwardly to points adjacent the roots of the leading edges of the several rotary fan blades for conducting fluid from said collector for spraying, under the influence of centrifugal force, a spray of fluid along the leading edges of said rotary fan blades, and ducts fewer in number than the number of blades leading from said collector to points on said hub close to the leading edges of said stator fan blades for spraying, under the influence of centrifugal force, a uniform spray of fluid in advance of all the leading edges of said stator blades as the rotary fan hub rotates relative thereto, whereby the sheet of spray thus formed impinges, at least in part, upon the all of the stator fan blades for removal of ice therefrom.

2,406,474
WELDING ARC STABILIZER
William W. Perrin, Albany, Calif., assignor to Ted Nelson, San Leandro, Calif.
Application January 19, 1944, Serial No. 518,847
2 Claims. (Cl. 219—4)



1. In an electric welding machine an electrode-carrying chuck, an electric conductor connected in series with the chuck and coiled therearound adjacent the electrode, and means for supplying an electric current to the conductor.

2,406,475
SLOTTED AIRPLANE WING
Gerrit P. Rogers, Windsor, N. Y., assignor of one-fourth to Samuel H. Pearis, Binghamton, N. Y.
Application February 1[illegible] 1944, Serial No. 523,135
1 Claim. (Cl. 244—40)



In an airplane, an airfoil having a spanwise upwardly and rearwardly extending passageway therethrough near its leading edge, said passageway having front and rear walls and providing an entrance at the bottom of the airfoil and an exit at the top thereof, a shutter for controlling said passageway pivoted along its rear edge to the rear wall of said passageway at said entrance and movable upwardly and rearwardly within the passageway to open position, a ledge on the front wall of said passageway at said entrance and engageable by the front edge portion of said shutter for limiting forward and downward swinging movement of the latter to closed position, and operating means for said shutter, said operating means including a tension spring connected to and acting to open the shutter, and short spaced fins fixed to the pivoted edge of and lying in a plane parallel with the shutter, said fins projecting rearwardly and downwardly below the airfoil when the shutter is open for being acted upon by wind pressure to close the shutter against the action of said spring.

2,406,476
CALK
Harold A. Sampson, Burlingame, Calif.
Application February 19, 1945, Serial No. 578,580
2 Claims. (Cl. 36—59)



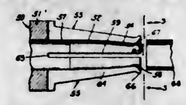
1. A shoe calk comprising a plate of generally cross shape and having the side margins of the cross arms turned upwardly to provide pairs of opposed flanges on the arms, and a non-skid block fixed between the opposed flanges.

2,406,477
CATALYST MANUFACTURE
Ernest Solomon, Nutley, and Louis C. Rubin, West Caldwell, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application May 29, 1942, Serial No. 444,970
1 Claim. (Cl. 252—251)

A method for uniformly impregnating adsorbent catalyst support with aluminum chloride catalyst in the absence of hydrolytic or other reactions which comprises passing a carrier gas, which of itself does not undergo conversion and which is substantially unreactive with either aluminum chloride catalyst or the catalyst support at the conditions of impregnation, over a solid adsorptive agent to dehydrate said carrier gas, passing the dehydrated gas over granular aluminum chloride at a temperature between 100° F. and 400° F. and at a velocity sufficient to vaporize substantial quantities of aluminum chloride into said gas, contacting a body of adsorbent catalyst support free from adsorbed water with the aluminum chloride-enriched carrier gas with essentially no change in the temperature and velocity of the gas for a period of time sufficient to substantially saturate said body of catalyst support with aluminum chloride, discontinuing said contact of granular aluminum chloride with the carrier gas and thereafter further contacting the aluminum chloride-contaning adsorbent support at a lower temperature with the carrier gas at a substantially increased velocity for a period of time sufficient to transfer aluminum chloride from portions of the impregnated body of adsorbent support containing higher amounts to portions thereof containing lesser amounts until a substantially uniformly impregnated supported catalyst is produced.

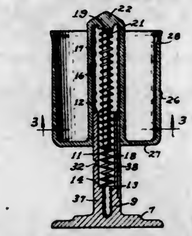
2,406,478
DUCTILE TUBING CONNECTOR
Robert E. Snyder, Pasadena, Calif.
Application March 15, 1943, Serial No. 479,247
3 Claims. (Cl. 285—90)

1. In a connector for ductile tubing adapted to prevent concentration of stress at the point of connection, a body portion having a tubing-receiving bore, a plurality of extensions projecting lengthwise from one end of the body portion and cooperatively arranged to normally form a contracted throat concentric with the bore and of smaller size than the tubing, said extensions being resilient and adapted to be spread apart to expand the throat to the size of the tubing and resiliently engage the tubing when received in



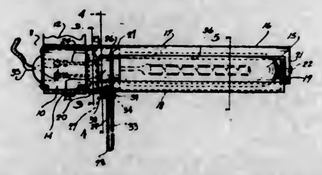
the bore of the body portion, the tubing-engaging inner faces of said resilient extensions conforming in their circumferential contour to the shape of the tubing so as to form an expanded throat fitting the tubing when the extensions are in their spread position and said inner faces defining a different contour as well as smaller size than the tubing in the contracted throat when the extensions are in their relaxed position.

2,406,479
JUICE EXTRACTOR
Christian J. Stahly, El Monte, Calif.
Application September 21, 1944, Serial No. 555,099
8 Claims. (Cl. 146—3)



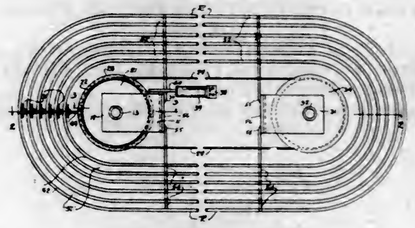
1. In a manually operable juice extractor, a base, a cylindrical guide rigid therewith and extending upward therefrom, a sleeve mounted on said guide for reciprocatory motion in telescopic relation therewith, means interconnecting said sleeve and guide for rotating said sleeve with respect to said guide concurrently with relative telescopic movement thereof, spring means urging said sleeve upwards on said guide, reaming means on the upper end of said sleeve, and a juice-gathering cup carried by said sleeve below said reaming means.

2,406,480
READING LAMP
Walter A. Tratsch, Chicago, Ill.
Application July 15, 1944, Serial No. 545,080
2 Claims. (Cl. 240—4)



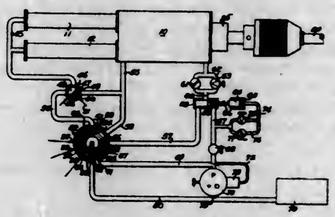
1. A reading lamp comprising a source of light, means providing an enclosure for the source of light comprising two telescopically arranged sections, and means for rotating one of said sections relative to the other to provide a slit between said sections for the emission of light from the light source, said means comprising a cord having opposite end portions connected to one of said sections and a member having spaced perforations through which the cord is passed in opposite directions.

2,406,481
AMUSEMENT APPARATUS
Walter A. Tratsch, Chicago, Ill., assignor to Clarence E. Threedy, Chicago, Ill., as trustee
Application May 17, 1945, Serial No. 594,297
6 Claims. (Cl. 46—122)



1. An apparatus of the class described comprising a pair of spaced supporting brackets, a shaft supported by each of said brackets, a plurality of pulleys mounted in superimposed relation with respect to each other on one of said shafts and freely rotatable with respect thereto, a plurality of pulleys arranged in superimposed relation with respect to each other on the other of said shafts and freely rotatable with respect thereto, with each pulley providing a ratchet gear, a plurality of driven discs supporting said last-named pulleys, means for connecting said discs to said other of the shafts for rotation therewith, continuous belt members rotatable around said pulleys, and means adapted to selectively engage said ratchet gears to selectively restrain said last-named pulleys against rotation.

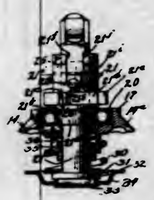
2,406,482
HYDRAULICALLY CONTROLLED MACHINE TOOL
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application April 27, 1942, Serial No. 440,733
6 Claims. (Cl. 60—52)



1. In combination, a reciprocable member, fluid operable advancing and retracting means associated with said member for reciprocating the same, fluid operable motor means operable selectively for rotating said member while it is being reciprocated, and means adapted in response to a predetermined resistance exerted upon said reciprocable member, during the advancing stroke thereof, for temporarily retracting said member, and also adapted in response to a decrease in the said resistance to again advance said member.

5. In combination, a reciprocable member, fluid operable advancing and retracting means associated with said member for reciprocating the same, fluid operable rotary motor means associated with said reciprocable member and operable selectively to rotate the latter while it is being reciprocated, channel means in said reciprocating member for supplying pressure fluid to said rotary motor, and a single valve operable to control said reciprocable member and said fluid motor.

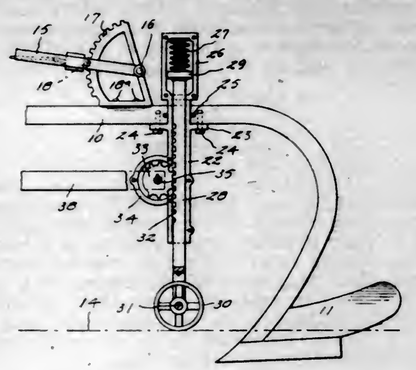
2,406,483
YOKE CONSTRUCTION FOR SELECTOR COCKS
John N. Van Epps, Cleveland Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 17, 1943, Serial No. 476,152
5 Claims. (Cl. 251—97)



1. In a selector cock construction including a casing having a seat and a plug rotatable in said casing and engageable with said seat, a plug-driving member including a cylindrical stem and having a driving interengagement with said plug, a spring acting on said driving member to bias said plug into engagement with the seat, a sleeve encircling said stem in relatively axially and rotatably movable relation and having a peripheral bearing surface on the stem-encircling portion thereof, a bearing supported by the casing encircling said bearing surface and supporting the sleeve rotatably, a radially projecting collar portion on the sleeve outwardly of said bearing surface and having delimiting notches therein, detents engageable in said notches, a portion of the sleeve projecting substantially outwardly beyond the collar portion and having bisecting slots therein, one of said slots having substantially V-shaped cam surfaces adjacent to said collar portion, a pin carried by the outer end portion of said stem and projecting laterally therefrom to ride said cam surfaces to be cammed axially outwardly and move said plug driving member outwardly against the spring bias, a driver for said sleeve including laterally extending elements for effecting corotation received within the remaining slot, and retaining members secured across the outer end portions of said remaining slot.

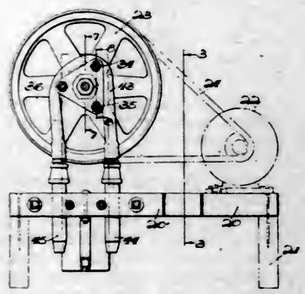
2,406,484
DEPTH CONTROL FOR PLOWS
Thomas Allen, Davison, Mich.
Application January 26, 1944, Serial No. 519,793
1 Claim. (Cl. 97—189)

A depth control for plows in which the plow has a carrying beam, a gauge wheel, a guide on the beam, a rack slideable in the guide and carrying the gauge wheel, a gear meshing with the rack, a rack and detent on the beam, a pivotal arm on which the detent is mounted and cooperative with the last mentioned rack, means on the arm for actuating the detent, a second arm carrying the gear and a connection between the first mentioned arm and the free end of the second mentioned arm, said guide being provided with a



hollow head portion containing a compression spring against which the first mentioned rack is operative.

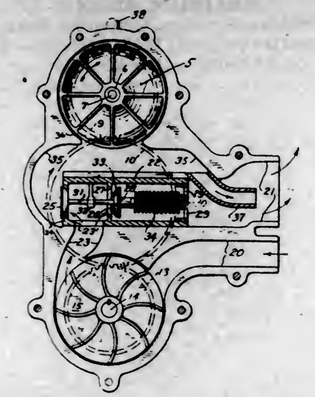
2,406,485
HOSE PUMP
Harold A. Arnold, Knoxville, Tenn., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee
Application May 5, 1944, Serial No. 534,274
7 Claims. (Cl. 103—149)



1. A pump comprising a hose stretched beyond its normal length, and a plurality of members operable one after another to keep the hose stretched and compress it for performance of the pumping operation.

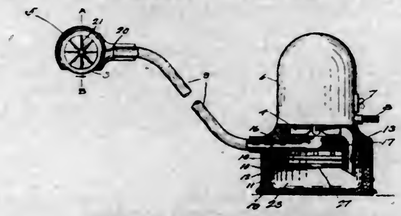
2,406,486
ENGINE FAN CONTROL
Walter R. Bonham, Palo Alto, Calif.
Application September 11, 1945, Serial No. 615,599
7 Claims. (Cl. 123—178)

1. Engine fan control comprising a circulating pump arranged for circulating the cooling water of an engine, means for continuously driving said pump from the engine, a fluid-coupling arranged for driving said fan and with its follower connected to the fan, and its driver connected for continuous driving with said pump, and thermostatic means controlled by the temperature of the circulated water arranged upon predetermined heating to direct some of said water into said fluid-coupling whereby said fan is operated, and upon predetermined cooling of the thermostat to withdraw said water from said fluid-coupling, in



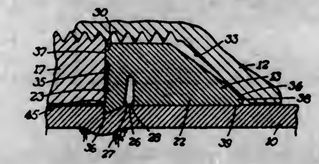
repetition as such heating and cooling of the thermostat takes place.

2,406,487
ERASER
Charles A. Brewer, Noroton Heights, Conn.
Application August 16, 1943, Serial No. 498,825
8 Claims. (Cl. 120—36)



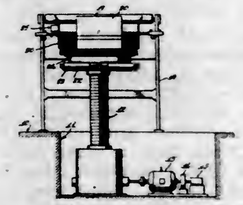
6. An eraser having a source of suction and a suction-operated movable means, and an erasing member connected to said movable means to be moved thereby to produce an erasure, the suction also acting to remove the erased particles resulting from the erasure by said movable erasing member.

2,406,488
COUPLING DEVICE FOR PIPES OR TUBES
William Hudson James Brock, Leamington Spa, England, assignor of one-half to Automotive Products Company Limited, Leamington Spa, England
Application July 3, 1944, Serial No. 543,334
In Great Britain July 6, 1943
5 Claims. (Cl. 285—87)



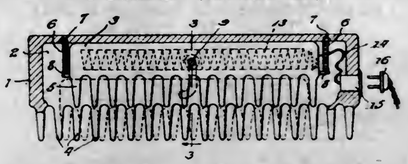
1. In a tube coupling device comprising an axially contractible housing to be slid over a pipe, and an annular collar disposed within said housing, said collar consisting of a body portion formed with an integral frusto-conical flange, which latter is flattened by the tightening of the housing and is thereby caused to contract into biting engagement with the pipe, the provision of means for limiting the flattening of the frusto-conical flange, said limiting means comprising a compression face on the housing, which face, at a stage in the tightening before the said flange becomes completely flattened, is arranged to bear directly against that part of the collar outside the frusto-conical flange, thereby forming a fluid-tight axial compression seal between the said compression face and the body portion of the collar, independently of the flange.

2,406,489
MAGNETIC CONTROL
Irvin L. Case, Steubenville, Ohio, assignor to National Steel Corporation, a corporation of Delaware
Application September 30, 1942, Serial No. 460,321
10 Claims. (Cl. 271—88)



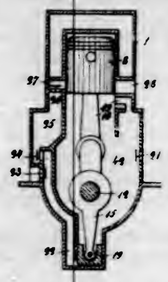
1. A piling apparatus for sheets of magnetic material comprising sheet feeding means, sheet stacking means positioned to receive sheets from the sheet feeding means, a support for the sheets associated with the stacking means and positioned below the sheet feeding means, a lift mechanism for changing the height of the support, operating means for the lift mechanism, and magnetic means in magnetic relation with the stack for controlling the operating means in accordance with the height of the stack.

2,406,490
HAIR CURLING COMB
Daniel A. Day, Columbus, Ohio
Application December 7, 1944, Serial No. 566,999
3 Claims. (Cl. 132—14)



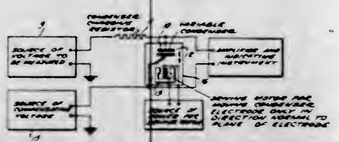
1. A hair-curling comb comprising a body member formed with teeth along one of its longitudinal edges and provided above the teeth with an internal chamber, a movable comb element positioned in said chamber and formed with teeth adapted for registration with those of the body member, spring means normally maintaining the movable element within the confines of said body member chamber and spaced from the teeth of said body member, and a headed manually movable stud projecting outwardly from said movable element, the shank of said stud being received within a slot formed in one of the side walls of said body member, said slot being curved at the lower end thereof to produce lateral movement on the part of the movable element of the comb when the teeth of such element are in registration with the teeth of the body member.

2,406,491
INTERNAL-COMBUSTION ENGINE
Bror Algor de Waern, Riksby, Sweden
Application April 15, 1944, Serial No. 531,141
In Sweden May 2, 1939
14 Claims. (Cl. 123—69)



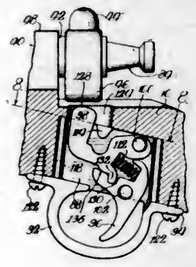
1. An internal combustion engine comprising in combination at least one combustion chamber, an engine piston reciprocable therein, a crank case, a crank shaft mounted in said crank case, a scavenging air inlet disposed in the wall of said combustion chamber and communicating directly with said crank case, a valve controlled receiver for gaseous fluid communicating with said combustion chamber, a compressor cylinder communicating at its inner end with said crank case and at its outer end with said receiver but being otherwise separated from said combustion chamber and crank case, a compressor piston reciprocable in said compressor cylinder, and a driving connection including said crank shaft adapted to transmit power from said engine piston to said compressor piston to reciprocate the latter and urge it to compress said gaseous fluid in said receiver and simultaneously to aid said engine piston to compress air in said crank case.

2,406,492
DEVICE FOR MEASURING LOW DIRECT VOLTAGES
Cornelis Dorsman, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application December 30, 1942, Serial No 470,685
In the Netherlands January 6, 1941
5 Claims. (Cl. 171—95)



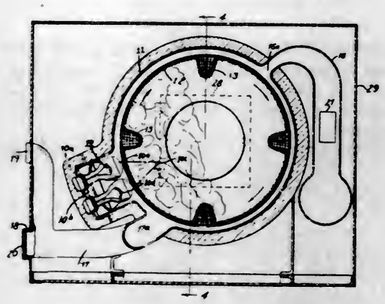
1. Apparatus for measuring a direct voltage comprising, a variable condenser member comprising two flat parallel electrodes spaced apart and movable with respect to each other solely in a direction normal to the planes of the electrodes, means to apply the direct voltage to be measured to the said condenser-electrodes, means to periodically move one electrode relative to the other electrode solely in a direction normal to the planes of the electrodes and through a substantially constant displacement value to thereby vary the spacing between the electrodes and the capacitance of the condenser between substantially fixed limits, and means to measure the pulsating voltage produced at the terminals of the condenser by the variation in the capacity thereof.

2,406,493
IMITATION FIRING MECHANISM FOR TRAINING ARMS
William G. Dunn, Clarinda, Iowa
Application January 8, 1943, Serial No. 471,741
3 Claims. (Cl. 42—69)



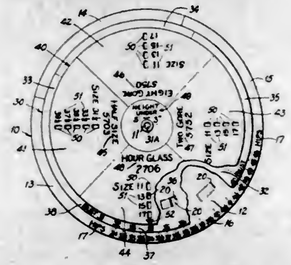
2. In a training arm, a cocking mechanism, including a mounting plate, a trigger pivoted to the plate and having a forwardly projecting portion provided with a recess in its top, and an upwardly projecting part, a hammer pivoted to the plate above the trigger and having a recess below the horizontal line through its pivot facing the said upwardly projecting part, and a spring interposed between the bottom of the recess in the hammer and the upwardly projecting part of the trigger, said hammer having a latching lug for sliding on said forwardly projecting portion and cooperating with the recess therein, said hammer having a forwardly and upwardly extending head adapted for cooperation with the breech bolt of the training arm, whereby the "click" of a firearm is simulated.

2,406,494
DOMESTIC APPLIANCE
Donald K. Ferris, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application May 14, 1943, Serial No. 486,932
4 Claims. (Cl. 34—82)



1. A clothes drier comprising a stationary casing, a perforated, cylindrical, drum in said casing rotatable about a horizontal axis, means for rotating said drum about said axis, an infra-red lamp comprising an infra-red electric heater encased in glass supported in said casing adjacent the lower upwardly rising portion of said drum, and means to circulate air through said casing and drum.

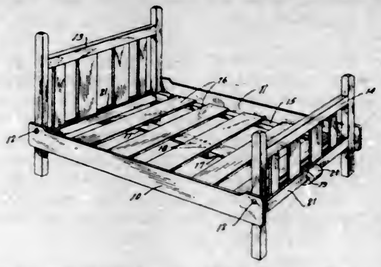
2,406,495
DEVICE FOR SELECTION OF ARTICLES OF WEARING APPAREL
Frederick R. Grand-Jean, University City, Mo., assignor to Sel-Mor Garment Co. Inc., St. Louis, Mo., a corporation of Missouri
Application December 1, 1944, Serial No. 566,229
6 Claims. (Cl. 35—56)



1. A device for aid in selecting a lady's garment from a stock of varying sizes and styles, the device including three superposed planar elements, two of which are relatively displaceable and individually displaceable with respect to the third or base element, the base and one other element each having a row of graduations arranged for selective register upon relative displacement thereof, one such row being a range of hip sizes and the other, a range of bust sizes, the elements other than the base each having a plurality of apertures, said apertures being arranged in dissimilar patterns on the respective elements for selective register when the apertured elements are displaced, one such pattern of apertures consisting of a stepped arrangement in which the apertures of the pattern are progressively displaced in two directions, a dissimilar cooperating pattern of apertures on an adjacent element being a linear arrangement, with the line of apertures extending across the path of movement of the element in which they are formed, the base element having a plurality of items of indicia so arranged in a pattern as to cooperate with and be selectively visible through the registered apertures of the other elements in accordance with the selected register of said rows of graduations for predetermined hip and bust sizes, and further indicia on one of the apertured elements including means selectively coacting with the selected register of the rows of graduations to predetermine hip and bust sizes for selectively determining the visibility of an item of indicia on the base element, to designate a stock garment of optimum size and style.

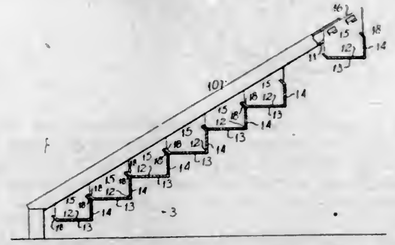
2,406,496
FOLDING DOLL BED
August Max Hambacher, Denver, Colo.
Application November 28, 1944, Serial No. 565,506
1 Claim. (Cl. 5—178)

A folding bedstead comprising: two side rails; a foot frame; a head frame; pivot means respectively securing said foot frame between the foot extremities of said rails and said head frame between the head extremities of said rails; slat-supporting strips secured along the inner faces of said rails adjacent the bottoms thereof; slats secured at their extremities to said strips and extending transversely of said bedstead; elongated resilient hook strips secured at their inner extremities to the bottom of the middle slat with their extremities projecting oppositely outward beyond said head and foot frames; and hooks on the projecting extremities of said hook strips detachably engaging said head and foot frames to prevent the latter from swinging inwardly at their tops, said slat-supporting strips terminating



at the vertical position of the inner faces of said legs for preventing said frames from swinging outwardly at their tops beyond a vertical position.

2,406,497
STAIR CONSTRUCTION
Michael Hurley, Denver, Colo.
Application December 29, 1944, Serial No. 570,268
6 Claims. (Cl. 189—43)



1. A stair construction comprising a pair of hollow, longitudinally-slotted stringers, step units formed with end webs extending perpendicularly from the tread portions thereof engageable through and longitudinally of the slots of said stringers, and lugs outstanding from the stringer-engaging web portion faces cooperable interiorly of and with said stringers to inhibit web displacement laterally and radially thereof.

2,406,498
TIRE CASING VULCANIZER
Harold V. James, Denver, Colo.
Application April 9, 1945, Serial No. 587,330
3 Claims. (Cl. 18—18)



1. A tire casing repair device comprising: a pedestal; a pair of supporting arms detachably

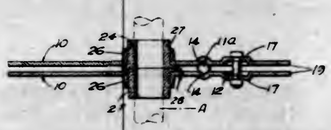
secured to said pedestal and extending forwardly therefrom; a supporting member mounted on the projecting extremity of each arm; an arcuate curing arm extending between the supporting members and being secured thereto adjacent each of its extremities; a jack screw rotatably suspended from the mid-portion of said curing arm between the supporting members; a pressure plate threaded on said jack screw; a clamping band extending over said curing arm; means for connecting said clamping band to said pressure plate; a vertical tenon formed on each of said supporting members, the tenons on the opposite members facing each other; and notches in said pressure plate for engaging said tenons to prevent rotation of said pressure plate.

2,406,499
FLUID TRANSMISSION
Joseph Jandasek, Highland Park, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 23, 1943, Serial No. 499,614
10 Claims. (Cl. 103—115)



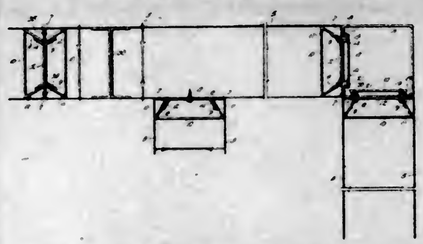
1. A rotatable wheel, spaced streamline main vanes on the wheel having rounded entrance edges and passages through the bodies thereof, and rectifying vanes on the wheel intermediate the main vanes.

2,406,500
HOE WHEEL PLATE STAMPING
George E. Karl, Liberty, Ind., assignor to General Implement Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 4, 1944, Serial No. 566,428
2 Claims. (Cl. 97—216)



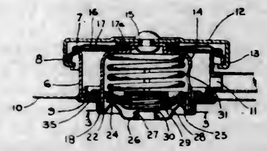
2. In a rotary hoe of the type comprising one or more wheels each composed of a pair of cooperating plates and a plurality of circumferentially spaced apart, outwardly projecting, double pronged teeth each having a U-shaped anchorage portion clamped firmly between said plates, together with bolts for securely connecting said plates together; the improvement which comprises a pair of plates having a plurality of sets of circumferentially spaced apart, complementary U-shaped grooves to constitute seats for the anchorage portion of said teeth, said plates having a plurality of sets of aligned, outwardly extending projections, disposed intermediate the legs of each of said grooves, and the outer marginal edge of each plate, intermediate adjacent projections, terminating in laterally extending flanges, the end portions of which extend throughout a substantial portion of the length of the sides of said projections.

2,406,501
STRUCTURAL CONNECTING AND SUPPORTING UNIT
Paul Kratzmaier, Kansas City, Mo.
Application February 28, 1945, Serial No. 580,188
6 Claims. (Cl. 189—36)



1. Structural connecting and supporting means of the character described comprising, a pair of sheets of material having transversely extending portions in abutting relation and terminating in securing flanges, a rigidly held supporting structure comprising a clamping and supporting element engaging each of said sheets of material, and a tie clamping member having marginal portions cooperating with said supporting elements for effecting clamping engagement with said securing flanges.

2,406,502
RADIATOR PRESSURE CAP
Carl H. Lines, Connersville, Ind., assignor to Stant Manufacturing Company, Connersville, Ind.
Application August 20, 1943, Serial No. 499,375
5 Claims. (Cl. 220—44)

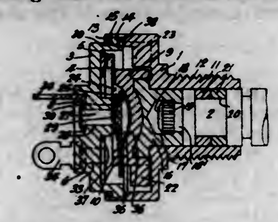


1. A valved pressure closure device of the character described including an attaching cap for removable mounting on a filler neck, a valve enclosing cage provided with a bottom plate having portions to seat against a filler neck and to seat a pressure valve and having an annular retaining recess between the said seating portions, said valve cage being cup shaped with its upper closed end rigidly secured to the cap and its lower open end flanged with a slot extending through the flange and lower portion of the side wall adjacent the flange, said flange being slightly resilient for self retention within said recess and free relative rotation between said cage and plate.

2,406,503
VARIABLE ELECTRICAL RESISTANCE
Leslie William Miller, London, England, assignor to The Morgan Crucible Company Limited, London, England
Application September 23, 1944, Serial No. 555,527
In Great Britain February 22, 1944
5 Claims. (Cl. 201—55)

1. A variable electrical resistance comprising two parts fitting together, one of said parts carrying an assembly comprising a resistance element presenting a plane surface, a rotor contact bearing with predetermined pressure on said surface, and the other of said parts carrying an

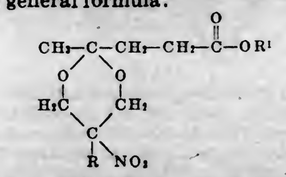
operating spindle which is rotatable about an axis perpendicular to said surface and which has a driving connection with said rotor con-



tact which permits freedom of relative movement in the axial direction with absence of axial thrust.

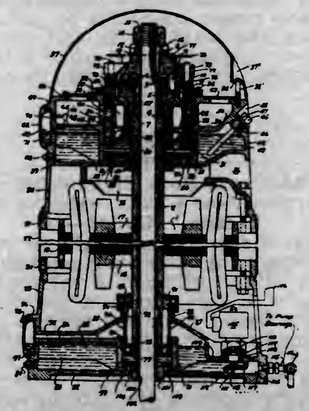
2,406,504
NITRO KETALS AND PROCESS FOR PREPARATION THEREOF
Glen H. Morey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application July 29, 1944, Serial No. 547,283
8 Claims. (Cl. 260—338)

1. Substituted 5-nitro-1,3-dioxanes having the following general formula:



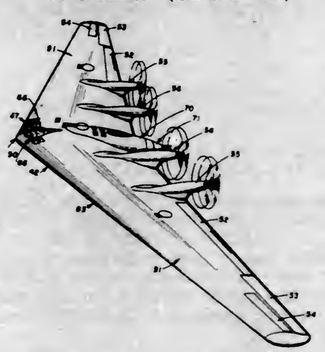
wherein the substituent R represents a member selected from the group consisting of hydrogen and alkyl and R^1 is alkyl.

2,406,505
BEARING SUPPORT
Thomas G. Myers, Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif., a corporation of California
Original application April 11, 1939, Serial No. 267,239. Divided and this application March 29, 1943, Serial No. 480,959
10 Claims. (Cl. 308—187)



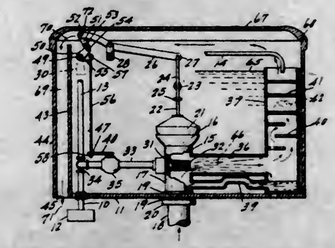
1. In a device of the character described, a vertical shaft, a bearing structure for the shaft, a closed frame for said structure, there being a lubricant well communicating with the bearing structure above and below it, said lubricant being passed upwardly through the structure and dropping back into the well, a filter device upon which said lubricant flows and disposed above the well, and a transparent cover for the frame for viewing the lubricant above and below said filter device.

2,406,506
ALL-WING AIRPLANE
John K. Northrop, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application February 21, 1944, Serial No. 523,311
20 Claims. (Cl. 244—13)



1. A tailless airplane comprising a generally triangular planform wing of relatively thick central airfoil section, the halves of said wing having lines of center of pressure which are swept back from root to tip and said halves having substantial taper in thickness and in planform, all sections of each half having basic wing profiles of substantially zero center-of-pressure movement throughout all normal flight angles of incidence, and the chords of said sections progressively decreasing in angle of attack from root to tip.

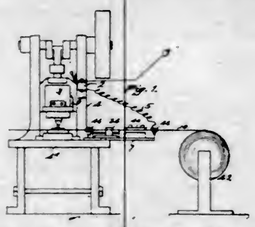
2,406,507
VENTILATING AND DEODORIZING TOILET
Fred L. Owens, Richmond, Calif.
Application February 5, 1945, Serial No. 576,255
8 Claims. (Cl. 4—215)



1. Air conditioning apparatus, in combination; a flush pipe having a valve seat at the upper end and a float valve therefor, a separating column, and a spray chamber communicating between said flush pipe below said valve seat and the lower portion of said separating column and having a nozzle for discharging and spraying water under pressure into the lower portion of said separating column to draw air through and from said flush pipe and wash and humidify said air and discharge the same into said separating column for

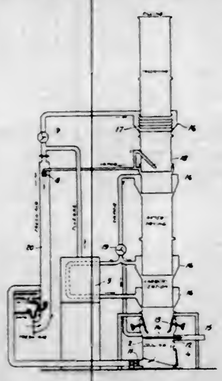
separation of the washed and humidified air from free moisture, a control valve for said nozzle, and control means for said control valve and said float valve, and drainage means for the lower end and an air outlet for the upper end of said separating column.

2,406,508
SELF-ACTING STOCK FEED
Robert A. Papedorf, Los Angeles, Calif.
Application March 2, 1945, Serial No. 580,577
22 Claims. (Cl. 164—117)



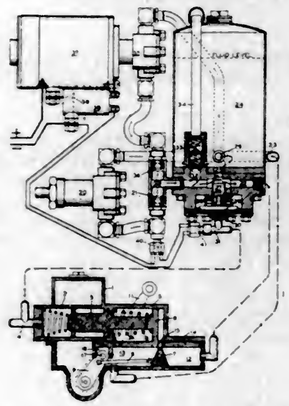
1. In an automatic stock feeding mechanism: the combination of a double-action, fluid pressure operated, reciprocating motor, a vise reciprocative by said motor and including a self-acting clamping and self-releasing device, and a master control for the motor adapted for operation by a coacting part of apparatus to which the stock is to be fed.

2,406,509
METHOD OF AND APPARATUS FOR CARBONIZING PEAT
Claës-Wilhelm Pilo, Stockholm, Sweden
Application February 11, 1944, Serial No. 521,952
In Sweden December 22, 1942
11 Claims. (Cl. 202—16)



1. A continuous method of converting peat into a solid fuel, which method comprises feeding the raw peat to be converted from above into a shaft and permitting it to sink continuously, in a coherent column of substantially uniform cross-section, through three successive zones of said shaft while passing through the uppermost predrying zone of the shaft in countercurrent to the descending peat a hot gas current consisting to at least a considerable part of hot air, passing through the next lower after-drying zone of said shaft in countercurrent to the descending peat a hot gas current containing superheated water vapor at a temperature below the carbonizing temperature of the peat, and passing through the third carbonizing zone of said shaft below said after-drying zone a hot gas current containing superheated water vapor at a temperature above the carbonizing temperature of the peat.

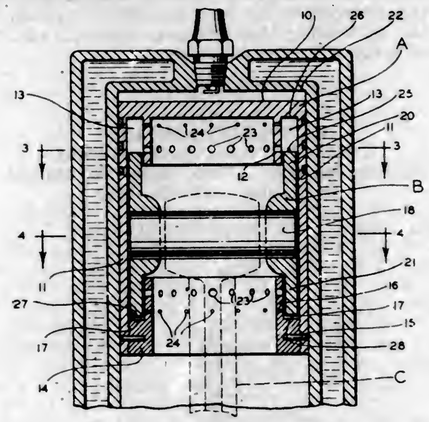
2,406,510
AUXILIARY FLUID PRESSURE SYSTEM
Byron R. Pool, Evansville, Ind.
Application May 13, 1943, Serial No. 486,908
8 Claims. (Cl. 60—52)



1. A fluid pressure system for a power-operated actuating mechanism having actuating pressure and drainage sides and a manually operable element movable from a normal position through a range of working positions comprising: a main liquid pump having pressure and drainage sides respectively connected to the actuating pressure and drainage sides of the actuating mechanism; means for short-circuiting the flow of pump liquid from the pressure side to the drainage side when the operating element is in its normal position so as to enable the main pump to be operated under minimum load conditions at that time; means for breaking said short circuit when said element is moved out of its normal position so as to enable the main pump to build up an operating pressure; a normally inoperative auxiliary pump connected to said pressure and drainage sides; means conditioning the auxiliary pump for operation upon a failure of said main pump; and means connected to the actuating mechanism and arranged to start and stop the conditioned auxiliary pump when said element moves respectively out of and into its normal position.

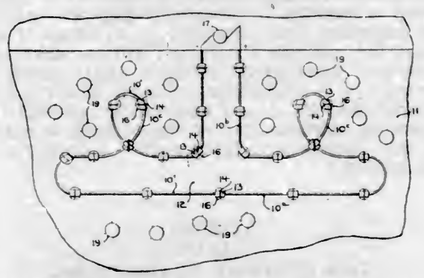
2,406,511
PISTON
William A. Roth, St. Paul, Minn.
Application June 4, 1943, Serial No. 489,692
1 Claim. (Cl. 123—78)

In a gas engine having a cylinder and piston rod, a piston with outer walls engaging the inner walls of the cylinder, a cylindrical sleeve connected with the piston rod and reciprocable within the piston for operating the same and having annular end walls of substantial width, cylindrical cups connected with the piston end walls and shaped and positioned to form annular chambers for receiving the annular ends of said sleeve, and two rings of apertures through the walls of both said cups, the apertures of the outer ring in each case being of large diameter to admit crank case gas and oil freely into said annular chamber, and the inner ring apertures in each case being very much smaller and being positioned close to the inner ends of the annular



chambers to permit only slow discharge therefrom for effecting a strong cushioning action in the transmission of the force of reciprocation of the sleeve in both directions to the piston.

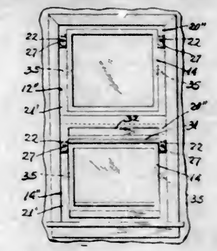
2,406,512
SHIP GUIDING SYSTEM
William Ryan, New York, N. Y.
Application June 8, 1945, Serial No. 598,375
2 Claims. (Cl. 177—385)



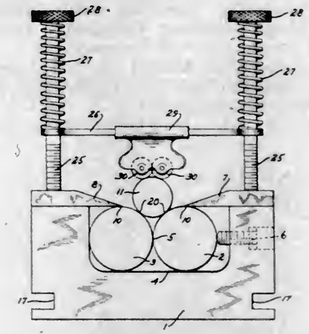
1. A guide means for ships, comprising a continuous conductor for location in a harbor or other body of water and defining a lane over which a ship may safely travel to a desired destination, means for sending a signal current through said conductor, and a detector for receiving said signals for location on a ship and misleading loops formed in said conductor for confusing the enemy and leading them into a mine field.

2,406,513
DOUBLE SASH WINDOW
David Seitzman, New York, N. Y.
Application July 17, 1944, Serial No. 545,297
3 Claims. (Cl. 20—48)

1. In a window, a window sash, comprising an outer sash frame for sliding in a window frame, an inner sash frame for closing the opening of said outer sash frame, and means for hingedly connecting said inner sash frame with said outer sash frame, said outer sash frame having its side arms formed of separate sections in end alignment with each other, and means for selectively drawing said sections together or slightly separating the sections for clamping the inner sash frame within the outer sash frame.



2,406,514
ROLL V BLOCK SUPPORT
Robert C. Squire, Cleveland, Ohio, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application June 5, 1944, Serial No. 538,861
2 Claims. (Cl. 81—19)

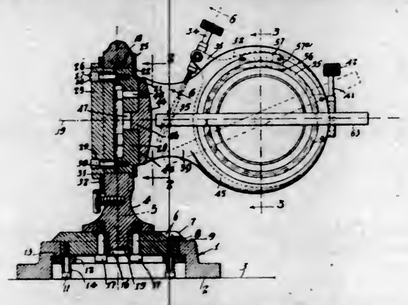


1. A precision V block support, comprising a generally trough-like housing member, a pair of hardened smooth cylindrical rolls disposed lengthwise in the trough of said member, a plurality of clamping members carried by the sides of said trough-like member and engaging said rolls to maintain them in contacting side-by-side engagement, and a pair of top plates secured to the sides of said trough and bearing upon the upper surfaces of said rolls to retain said rolls against the bottom of said trough.

2,406,515
ANGLE INDICATOR AND CHECKING INSTRUMENT
Aurele A. Studler, Los Angeles, Calif.
Application October 20, 1942, Serial No. 462,689
7 Claims. (Cl. 33—174)

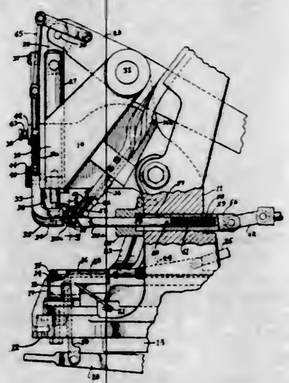
1. In apparatus for marking or checking the dimensions and measuring angles on a machine part or the like, the combination of a base, said base having a housing extending upwardly therefrom, with a circular bore therein on a horizontal axis, a rotary head, mounted in said bore, capable of rotation continuously in one direction on said axis through 360° and having an indexed scale thereon, said rotary head having a housing extending therefrom with a circular bore therethrough on a second axis extending perpendicular to the first named axis, a second rotary head

mounted on the last named bore and capable of rotating on said second axis continuously in one direction through 360°, and having an indexed scale thereon; and a holder plate rigid with said



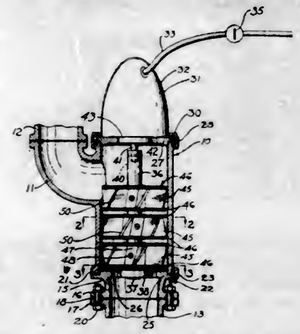
last named rotary head having a true plane face disposed in a plane substantially radial to said third axis, and having means for securing the machine part on said true plane face.

2,406,516
FASTENER SETTING MACHINE
Jacob P. Treciokas, Oakville, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Original application March 18, 1943, Serial No. 479,563. Divided and this application June 30, 1944, Serial No. 542,925
5 Claims. (Cl. 218—6)



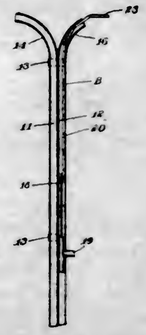
3. In a feeding mechanism for feeding fastener elements having a head and a shank from a hopper to the setting station of a fastener attaching machine, said mechanism comprising a guideway terminating at its discharge end in an arcuate portion, said arcuate portion having an opening through which the shanks of said elements project in a downwardly radial fan-like position, a releasable stop means adjacent the discharge end of said arcuate portion serving to check the travel of said elements and cause them to stack up in said guideway with their heads in edge-to-edge contact, and a rectilinearly operated feed finger operating tangentially of the discharge end of said guideway, said guideway terminating in its arcuate portion and said arcuate portion being of sufficient curvature and the feed finger being so positioned relative to the opening in said arcuate portion that with normally configurated fastener elements the feed finger will engage the shank of only the foremost element in said guideway and force said element past said stop means and into said setting station, said feed finger acting as a cut-off for the next succeeding element and those supported thereabove in the guideway during the period of feeding the foremost element and returning toward retracted position.

2,406,517
VAPORIZING MEANS
Thomas L. Triplett, Encino, Calif.
Application May 1, 1943, Serial No. 485,399
10 Claims. (Cl. 48—180)



1. Means for vaporizing fuel entrained in the air stream in an intake passage leading to an internal combustion engine, comprising in combination: passage means providing said intake passage; a plurality of spaced impellers disposed transversely across said passage each impeller having a plurality of blades; a plurality of spaced screen assemblies transversely disposed between said impellers and supported upon edges of said blades for rotation therewith; a drive shaft carrying said impellers, said drive shaft extending exteriorally of said passage; and a motor carried by said passage means and connected with the extending portion of said drive shaft for driving said impellers independently of operation of said engine.

2,406,518
TAPER
John C. Urbank, St. Paul, Minn.
Application July 26, 1943, Serial No. 496,148
6 Claims. (Cl. 67—22)



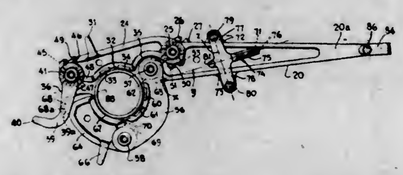
1. A taper of the class described having a wick comprising a series of strands and a wax coating, the coating being formed with a plurality of spaced apart circumferential grooves for the purpose set forth.

2,406,519
KNIFE SHARPENER
Joseph Urban, Detroit, Mich.
Application October 30, 1944, Serial No. 560,968
2 Claims. (Cl. 51—214)



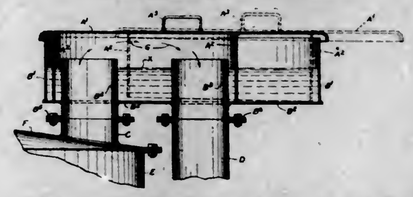
1. A knife sharpener comprising, an elongated body of handle-like form adapted to be gripped in the hand of the user, and having an extending end part beyond the portion adapted to be so gripped, said end part having a slot extending partially therethrough transverse to the length of the body, said slot having a chamber in its innermost portion extending through the body with the chamber having an inclined bottom wall, an abrading stone in the chamber and adapted to be pushed into position through the open end of the chamber, said abrading stone having its lower surface seating upon the inclined bottom and having its upper surface extending angularly in the direction transverse of the slot, whereby the edge of a knife blade passed into the slot angularly engages the surface of the abrading stone, said body having an opening extending lengthwise through the handle part and opening into the slot, a rod member positioned and freely slidable in the opening, and a pressure piece connected to the rod and located in the slot, the exposed end of the rod adapted to be pressed to urge the pressure member against the side of the knife blade to in turn apply the knife blade to the cutting stone with pressure.

2,406,520
PIPE TONG
William W. Wilson, Los Angeles, Calif.
Application June 8, 1943, Serial No. 490,007
12 Claims. (Cl. 81—66)



1. A tong for gripping a pipe, comprising: a handle having at one end thereof a working pivot and a fulcrum pivot; a long jaw connected to said working pivot and having an outer pivot and pipe engaging die means substantially coinciding with the central portion of a line which passes through said fulcrum pivot and said outer pivot when the tong is closed around the pipe whereby inward swinging of said jaw on said outer pivot will move said die means into engagement with the pipe along a line which is a radius of said pipe; a short jaw pivoted on said fulcrum pivot and having at the end thereof an outer pivot which lies on a line passing through said fulcrum pivot and being substantially tangential to the outer face of the held pipe, said last named line being disposed at substantially an angle of 60° from said first named line; and jaw and latch means to connect said outer pivots.

2,406,521
COMBINED GAUGE HOLE COVER AND VAPOR LINE CONNECTOR
John H. Wiggins, Chicago, Ill.
Application July 21, 1944, Serial No. 546,043
4 Claims. (Cl. 220—45)



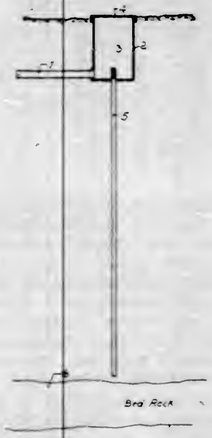
1. The combination of a storage tank provided with a gauge opening, a vapor line through which vapors or gases can escape from or return to said tank, and a liquid-sealed structure comprising an adjustable means adapted to be arranged in one position, wherein said means closes said gauge opening and vapor line to the atmosphere and establishes communication between said elements and in a different position, wherein said means cuts off communication between said elements and exposes the gauge opening to the atmosphere while the vapor line remains cut off from the atmosphere.

2,406,522
COMBINED BURIAL CASKET AND VAULT
William E. Woody, Columbia, Mo.
Application May 7, 1945, Serial No. 592,456
1 Claim. (Cl. 27—35)



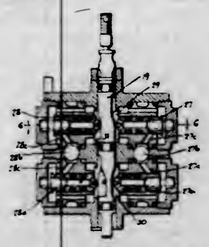
Means for lifting and carrying one end of a vault cover, comprising, in combination, the vault cover having an end wall provided on its outer side with two vertical rows of outwardly and downwardly extending projections, two vertical hollow brackets rectangular in cross section, having each through its inner wall a vertical row of slots adapted to receive respectively therethrough said projections the downwardly extending portions of which are adapted to engage the inner wall of the adjacent one of said brackets, each of said brackets having in opposite sides respectively two alined holes, and a horizontal hand rail having reduced end portions respectively rotatably fitted in said two holes, said end portions being provided on the same side with flattened portions respectively disposed in said brackets and when disposed vertically permit the projections of said two rows to pass through said slots permitting said brackets to be raised with said hand rail's end portions above the uppermost of said projections, whereby when said hand rail is rotated to dispose its flattened portions horizontally, said hand rail will lock the two brackets to said vault cover.

2,406,523
SEPTIC TANK CLEAR WATER DISCHARGE SYSTEM
Robert Lee Zabel, Louisville, Ky.
Application November 8, 1944, Serial No. 562,513
3 Claims. (Cl. 61—11)



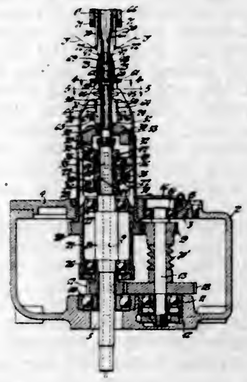
1. A method of providing a drainage arrangement for the clear water discharge of a septic system in a locality having a bed rock base substantially below the surface of the earth and natural drainage areas in the vicinity of the base comprising: sinking a drainage pipe into the earth to a position in which its lower end is spaced slightly from the bed rock base but sufficiently to provide clearance for water flow purposes; feeding water under pressure into the pipe to force water from the lower end of the pipe into the earth; and maintaining the pressure until the water creates open drainage channels through the earth leading from the lower end of said pipe to said natural drainage areas.

2,406,524
CONTROL UNIT AND DUMP VALVE
Benjamin N. Ashton and Eugene V. Barkow, Kingston, N. Y., assignors to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware
Application March 18, 1943, Serial No. 479,586
4 Claims. (Cl. 121—46.5)



1. A control unit for an hydraulic landing gear jack, said jack having a cylinder and a piston, comprising a first valve unit containing a plurality of valves for controlling the movements of a landing gear jack, an axially movable and rotatable cam member for actuating said valves, said cam member having cam surfaces to actuate said valves to supply liquid to said cylinder on one side of said piston and discharge liquid from the cylinder on the opposite side of said piston upon axial movement in one direction, and to actuate said valves to supply liquid to said cylinder on said opposite side and discharge liquid from said one side upon axial movement in the opposite direction, said cam member being rotatable in one direction to actuate said valves to discharge liquid from said cylinder on both sides of said piston simultaneously, a first lever for moving said cam member axially, and a control member for rotating said cam member.

2,406,525
KNITTING MACHINE
Willard W. Bardsley, Providence, R. I., assignor to Wardwell Braiding Machine Company, Central Falls, R. I., a corporation of Maine
Application December 28, 1943, Serial No. 515,901
8 Claims. (Cl. 66—9)

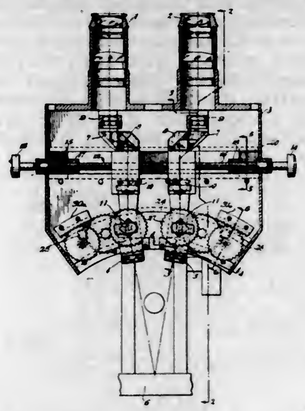


1. In a knitting machine, the combination of a needle-cylinder, knitting needles reciprocable axially of the cylinder, jacks connected to reciprocate the needles, means for reciprocating the jacks, bearing means projecting vertically from the upper ends of the jacks and offset radially inward therefrom, and a collar surrounding the cylinder and engaged by said bearing means on the jacks for preventing them from springing radially outward under the effect of centrifugal force.

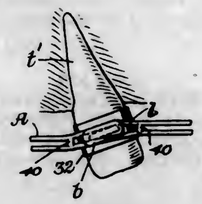
2,406,526
MICROSCOPE
Alva H. Bennett, Kenmore, and Oscar W. Richards, Snyder, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association
Application August 23, 1943, Serial No. 499,596
11 Claims. (Cl. 88—39)

1. In a binocular stereoscopic biobjective microscope, a pair of oculars, an objective for each of said oculars and each of said objectives being optically aligned with its respective ocular, an optical system interposed between each of said oculars and its respective objective, means for adjusting certain of the optical elements of said optical system relative to other elements of said system and means actuated by said adjustment of said optical elements to change the angular relation of said objectives relative to each other to vary the degree of stereoscopic vision at which a specimen may be viewed through the microscope and for automatically adjusting the angular relation of an optical element whereby specimens

may be viewed through said microscope at different degrees of stereoscopic vision without disturbing the setting of the oculars for the particular observer.



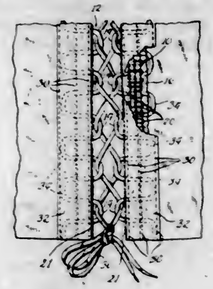
2,406,527
ORTHODONTIC APPLIANCE
Joseph D. Berke, New York, N. Y.
Application February 26, 1944, Serial No. 524,076
10 Claims. (Cl. 32—14)



1. An orthodontic appliance comprising in combination a button bracket attachable to a tooth, said button bracket having a button shank and a head, and a resilient and flexible arch wire provided with a resilient and flexible loop member, the said loop member being receivable by the button of said bracket, the loop member expanding as it is slipped over the head of the button and contracting itself into engagement with the shank of the button, the said loop member flexibly and resiliently acting on said button bracket to apply the corrective forces to the tooth.

2,406,528
FASTENER FOR EDGES OF WEARING APPAREL AND THE LIKE
David Blair, Chicago, Ill.
Application April 21, 1943, Serial No. 483,892
2 Claims. (Cl. 2—39)

1. A fastener formed of textile materials and comprising webs adapted to be attached to complementary closure edges of an article of wearing apparel, each of said webs formed of a continuous thread reversely bent upon itself to form the warp of the web with a plurality of rows of stitching running longitudinally and providing the woof of the web, each of said webs having a series of laterally projecting loops formed of a continuous cord reversely bent upon itself to form a continuous S shape and secured to the web by said longitudinal lines of stitching, and a lacing cord adapted to cooperate with said loops to effect a closure of said article of apparel.

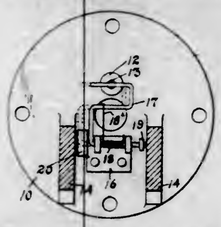


2,406,529
ELECTRICAL APPARATUS FOR INDICATING OR MEASURING DISTANCES
Alan Dower Blumlein, Ealing, London W. 5, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application June 13, 1942, Serial No. 446,972
In Great Britain January 10, 1940
22 Claims. (Cl. 177—352)



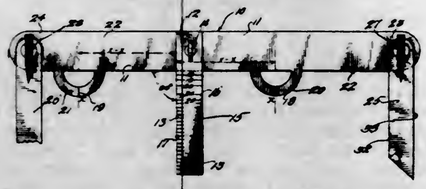
1. Apparatus for indicating the distance of an object, such as an aircraft, which is at least partially conducting, from a conducting surface, said apparatus comprising a first electrode and a second electrode each attached to said object and insulated therefrom, each of said electrodes having capacity to said object and to said conducting surface, a first and a second inductance tightly coupled together, a balancing impedance, means for effectively connecting the ends of said first inductance to the conducting part of said object and to said first electrode respectively, and means effectively connecting said balancing impedance between said second electrode and said second inductance, and further connecting means whereby said first and second inductances form two arms of a bridge network, whereby said balancing impedance forms a third arm of said bridge network and whereby the capacities between said first electrode and said surface and between said surface and said second electrode effectively form a fourth arm of said bridge network, a source of alternating voltage, means for effectively applying voltage from said source across opposite points or one diagonal of said network, balance indicating means, and means effectively connecting said balance indicating means across the other diagonal of said network so as to indicate the state of balance of said network, the arrangement being such that changes in capacity between said electrodes due to change of said distance can be indicated substantially independently of said capacities between said electrodes and said object.

2,406,530
SAFETY DEVICE FOR STRANDERS
Carl O. Bruestle, Rahway, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application May 19, 1945, Serial No. 594,757
2 Claims. (Cl. 57—81)



1. In a strand feeding machine, the combination including a guide member over which the strand is fed in the direction of its length, an insulated electrical contact mounted adjacent said guide member, and a movable contact arm biased towards engagement with said fixed contact and positioned adjacent the path of travel of the strand to said guide member so as to be engaged by the strand and held against its bias out of engagement with the fixed contact, whereby upon breakage or running out of the strand the movable contact engages the fixed contact, said movable contact being transversely shiftable and a locking member forming a seat therefor into which it may be shifted transversely.

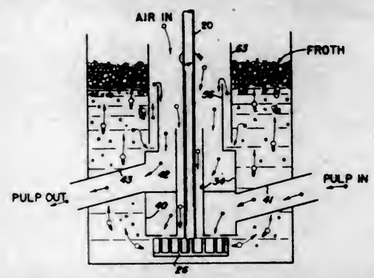
2,406,531
COMBINATION SQUARE AND BEVEL
Lawrence A. Dahle, Marietta, Minn.
Application March 14, 1945, Serial No. 582,703
1 Claim. (Cl. 33—98)



A combined square and bevel comprising a straight edge body, a blade secured thereto at right angles and formed with a work edge and having circle radius indicia thereon in spaced relation, semi-circular positioning feet secured to the edge of said body at the opposite sides of said blade having positioning lines formed thereon parallel with and equidistant from said work edge, and pivoted bevel squares at the ends of said straight-edge body adapted to be shifted to have a surface thereof alined with a mark drawn previously along the work edge of said blade when an arcuate piece of work material is contacted by said positioning feet, whereby the correct bevel or angle for the ends of the work material may be ascertained.

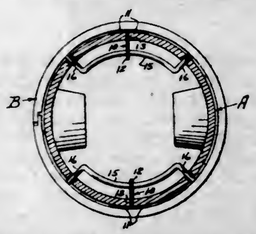
2,406,532
FLOTATION MACHINE
Arthur W. Fahrenwald, Moscow, Idaho
Application July 12, 1943, Serial No. 494,319
17 Claims. (Cl. 209—169)

1. A flotation machine, comprising: a tank having pulp inlet and outlet openings and a froth overflow lip, an impeller rotatable in the lower portion of the tank, an air tube rising axially above said impeller for delivering air to the hub of the impeller, radial deflectors surrounding said impeller, a pulp feed chamber above said impeller surrounding the lower end of the air tube and having outlets for delivering pulp to the impeller radially outward from and independently of the air supply thereto, means for conveying incoming pulp from the tank inlet to the feed chamber, a pulp accumulator cup above said feed chamber and around the air tube, the upper edge



of the accumulator cup defining the pulp level in said tank, a baffle surrounding said lip from a point therebelow and extending above the froth formed on the pulp in the tank, means for conducting pulp accumulated in said cup to exterior of the tank through the pulp outlet, a settling chamber in said tank and having its open mouth below the pulp level and under the froth just prior to its passage to the froth overflow lip of the tank, and means for conveying pulp from said settling chamber to the pulp chamber.

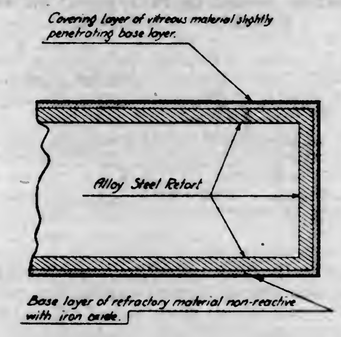
2,406,533
PISTON RING EXPANDER
Alexander G. Fawns, Philadelphia, Pa.
Application July 28, 1944, Serial No. 546,952
4 Claims. (Cl. 309—41)



1. A piston ring expander, comprising a hanger having a stem removably passed through the piston from the outside through the piston ring groove for anchorage therein, and expanding means removably engaged with the stem at the inner area of the piston for expanding action on the ring at plural points thereof.

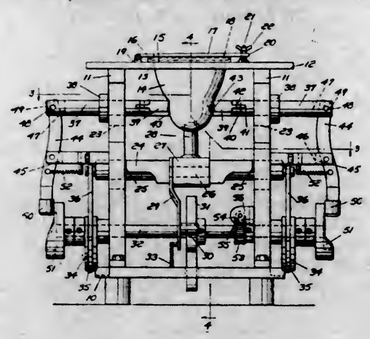
2,406,534
CERAMIC COATED FERROUS ARTICLE
Luther D. Fetterolf, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application March 10, 1944, Serial No. 525,972
4 Claims. (Cl. 266—19)

1. A ferrous article protected against oxidation at elevated temperature by a ceramic coating comprising a relatively thick base layer of refractory material non-reactive with iron oxide selected from the group consisting of magnesite, periclase, chrome-magnesite, chromite, forsterite and alumina, and a relatively thin covering layer of a vitreous material slightly penetrating the base layer to form a vitreous bond therewith and forming an impervious film thereover, said vitreous



material being selected from the group consisting of feldspar, ceramic glaze compositions and glass compositions characterized by melting to an impervious film at temperatures of from 1000 to 1300° C.

2,406,535
MIXING MACHINE
Donald S. Foote, Kansas City, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application June 14, 1944, Serial No. 540,216
4 Claims. (Cl. 259—72)



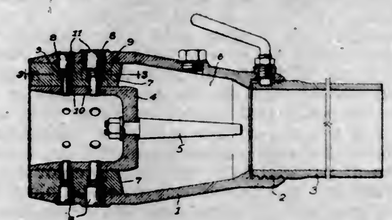
1. In a mixing apparatus, a support, a flexible mixing receptacle supported therein, a reciprocating mixing element arranged to engage the end of said receptacle exteriorly, reciprocating mixing elements arranged to engage opposed sides of said receptacle exteriorly, a reciprocating crosshead on which said end engaging mixing element is pivotally mounted for swinging movement, and cam means for imparting swinging movement to said end engaging mixing element coincidentally with its reciprocating movement, said side engaging mixing elements providing a contracting and expanding transverse passage through which said end engaging mixing element is adapted to have reciprocal and swinging movement, and whereby the contents of said receptacle are squeezed between the pressed sides and the pressed end of said receptacle with a kneading action.

2,406,536
DRILLING ANCHOR PART FOR BOLTS OR SCREW STUDS AND ITS USE
Alfred W. Gelpcke, Brooklyn, N. Y., assignor to The Rawlplug Company, Inc., New York, N. Y.
Application July 8, 1944, Serial No. 544,010
6 Claims. (Cl. 85—2.4)



1. A drilling anchor part for bolts or screw studs consisting of a single piece of suitable metal formed into a cylindrically shaped body with a longitudinal seam of substantial width from a piece having a tapering thickness from one edge to the other, so when the piece is formed into said body in an end-to-end direction, the body will have an internal taper from end to end, that end with the greatest internal diameter having cutting teeth therein, while the other end has a formation to anchor a chuck therein.

2,406,537
RECOILLESS MECHANISM FOR GUNS AND MORTARS
Maurice H. Goehmann, Dearborn, Mich., assignor, by mesne assignments, to United States of America
Application October 7, 1944, Serial No. 557,597
6 Claims. (Cl. 89—1)

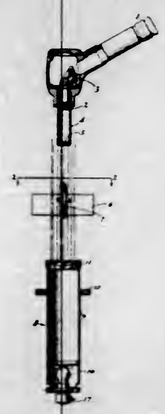


2. In a recoilless mechanism for guns and mortars, an annular casing forming a pressure chamber, a plug member disposed centrally within such chamber in spaced relation with respect to the wall thereof, a plurality of circumferentially spaced vanes disposed between said plug member and the wall of said chamber, and connections between said casing, vanes and plug member, said connections being in shear and of such strength as upon the development of abnormally high pressures within said chamber to shear and release said plug member for discharge from said chamber prior to bursting of said casing.

2,406,538
OPTICAL VIEWING AND ILLUMINATING DEVICE
Albin A. Gradisar and Gustav E. Guellich, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass., a voluntary association
Application October 8, 1943, Serial No. 505,488
1 Claim. (Cl. 240—2)

In apparatus for use with a contour forming machine an illuminator for silhouetting a portion of a forming tool on said machine and an adjacent portion of a workpiece also carried thereby and adapted to be profiled by said forming tool, said illuminator comprising an elongated

tubular housing, a telescope objective lens system carried adjacent and completely enclosing an end of said tubular housing, said lens system being corrected for spherical aberration and coma, a fixed partition disposed transversely within said housing intermediate the ends thereof and arranged to divide the interior of the housing into separated front and rear compartments, an aperture of relatively small diameter as compared to the diameter of the said lens system formed in said partition in axial alignment with

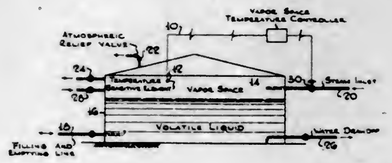


said lens system, said aperture being located at the rear focal point of said lens system, a monochromatic filter within said rear compartment and positioned to overlie said aperture, means for securing said filter in such position, a diffusing surface formed on the forward face of said filter and positioned closely adjacent said aperture, and a lamp within said rear compartment and located closely adjacent said filter, whereby a beam of parallel light of a single color may be projected by said illuminator when employed for silhouetting said forming tool and workpiece.

2,406,539
MANUFACTURE OF HOLLOW STAYBOLTS
Grover R. Greenslade, Scott Township, Allegheny County, and Frederick K. Landgraf, Crafton, Pa., assignors to Flannery Bolt Company, Bridgeville, Pa., a corporation of Delaware
No Drawing. Application January 30, 1941, Serial No. 376,600
2 Claims. (Cl. 148—19)

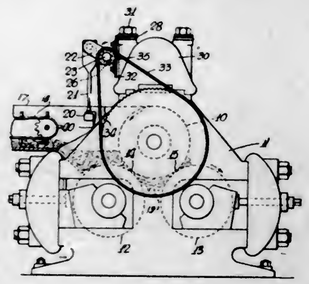
1. The method of simultaneously coating the interior of hollow ferrous staybolts and carburizing the heads thereof which comprises charging a coating metal into the interior of the staybolt and heating the staybolt to maintain the coating metal fluid, spreading the metal over the interior of the staybolt by means of a metal rod entered into the open end of the staybolt, carburizing the head of the staybolt while said rod remains in the staybolt, and thereafter removing the rod and any excess coating metal which may be present in the bolt and rapidly cooling the bolt at a rate sufficient to harden the head and freeze the coating metal before the coating metal sloughs off, the coating metal being a solid at normal room temperature and being molten at the temperature of carburization, the bolts being maintained in an upright position throughout the heating and carburizing to prevent the coating metal from flowing out of the interiors of the bolts.

2,406,540
METHOD OF REDUCING EVAPORATION LOSSES
Paul J. Harrington, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 19, 1943, Serial No. 499,256
5 Claims. (Cl. 220—85)



1. The method of reducing evaporation losses in closed storage equipment containing relatively volatile liquids which comprises first heating the closed vapor space just above the maximum temperature to which the storage equipment is to be exposed, then exposing the system to the temperatures of the atmosphere and passing into the vapor space steam in amounts so controlled by the vapor temperature as to maintain relatively uniform temperature conditions in the vapor space and to prevent an excessive pressure drop in the vapor space due to decreasing atmospheric temperatures.

2,406,541
SUGAR-CANE MILL
Allen M. Hewlett, Haina, Hamakua, Territory of Hawaii
Application March 28, 1944, Serial No. 528,398
10 Claims. (Cl. 100—47)

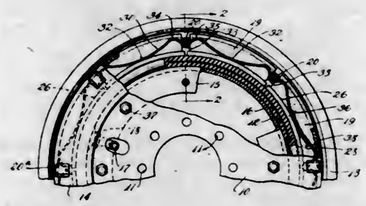


1. In a sugar cane mill of the type having opposed upper and lower extraction rollers, a cane compression member extending above and transversely of the path of feed of the cane towards said rollers, rotatable means supporting said compression member and permitting free swinging movement towards and from said upper roller, and means for alternately raising and lowering said compression member, whereby said compression member comes down upon the feed cane at a distance from said upper roller to compress said cane, is carried by the cane towards the upper roller while said member is in compressive engagement with said cane, moves upwardly out of engagement with said cane when near said upper roller, and may freely swing back to its original position away from said upper roller in preparation for its next downward cane compressive phase.

2,406,542
TREATMENT OF STAPLE FIBER
Harmon Howorth and Laurence C. Holt, Pearisburg, Va., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application November 7, 1944, Serial No. 562,391
10 Claims. (Cl. 117—56)

1. In a process for the production of staple fiber textile materials, having a basis of filaments of an organic derivative of cellulose, of improved textile processing characteristics, the step which comprises applying to a mineral oil lubricated, continuous filament textile material a substantially non-aqueous conditioning agent comprising the product formed by reacting a mixture of a mineral oil, a vegetable oil, a higher fatty acid and oleum at a temperature no greater than about 20° C. whereby sulphonation of at least part of the higher fatty acid and vegetable oil occurs, to which product is added a spreading and penetrating agent and an amount of alkali-metal hydroxide and an alkylolamine to neutralize all of the oleum and the major portion of the higher fatty acid.

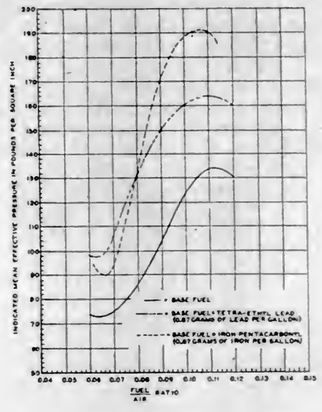
2,406,543
FRICTIONAL MECHANISM
Willson H. Hunter, Lakewood, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 3, 1943, Serial No. 512,721
13 Claims. (Cl. 188—152)



1. Frictional mechanism for controlling relative rotation of rotatable parts, said mechanism comprising a pair of concentric members, one of said members having an annular channel open toward the other, an inflatable expander located in said channel, friction elements on said expander within the channel, said channel and said elements having circumferentially extending marginal ledges in overlapping relation defining passages at the sides of said elements, and spring means located at the sides of said elements within said passages for retracting said elements.

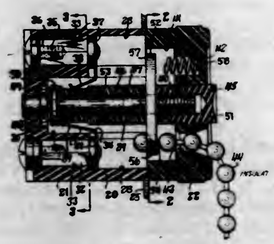
2,406,544
MOTOR FUEL AND PROCESS OF USING SAME
Elmer R. Johnson, Beacon, N. Y., assignor to Texaco Development Corporation, Jersey City, N. J., a corporation of Delaware
Application July 4, 1942, Serial No. 449,751
13 Claims. (Cl. 44—67)

1. An aviation motor fuel blend adapted for use in supercharged engines and having a preferentially improved maximum power output at full throttle, without detonation, at super-rich air-fuel ratios richer than 11:1, as compared with lean air-fuel ratios leaner than 11:1 comprising a high antiknock rating base fuel containing a major proportion of isoparaffinic hydrocarbon gasoline, and a carbonyl of a metal of atomic number 26 to 28 in an amount sufficient



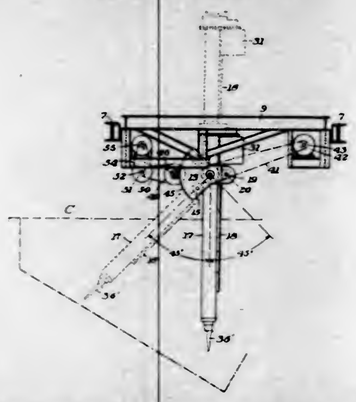
to convert the base fuel into the aforesaid aviation motor fuel blend.

2,406,545
ELECTRIC SIGNAL DEVICE
Stanley M. Kenerson, Springfield, Mass., assignor to The Standard Electric Time Company, Springfield, Mass., a corporation of Connecticut
Application October 15, 1943, Serial No. 506,315
3 Claims. (Cl. 200—16)



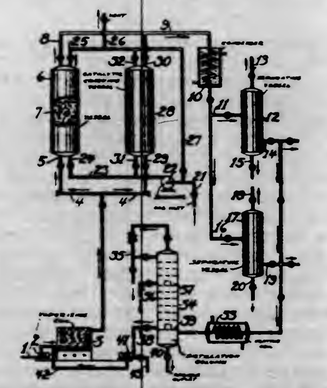
1. An electric signal device, including: a receptacle having a plurality of fixed electric switch-contacts; an electric switch-contact means longitudinally slidable in opposite directions to either of two opposite extreme positions or to an intermediate position; said slidable switch-contact means when in one of its said extreme positions being in open-circuit position, and when in said intermediate position closing the circuit through only certain of said fixed contacts, and when in the other extreme position closing the circuit through all of said fixed contacts; spring-means constructed and arranged to not resist the movement of said slidable switch-contact means from said extreme open-circuit position to said intermediate position but to yieldingly resist the movement of said slidable switch-contact means from said intermediate position to said extreme closed-circuit position; and means for sliding said slidable switch-contact means to said extreme open-circuit position.

2,406,546
CAR UNLOADING DEVICE
Selwyne P. Kinney, Crafton, and Louis M. Hartwick, Beaver, Pa., assignors, by mesne assignments, to S. P. Kinney Engineers, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1944, Serial No. 517,040
9 Claims. (Cl. 262—8)



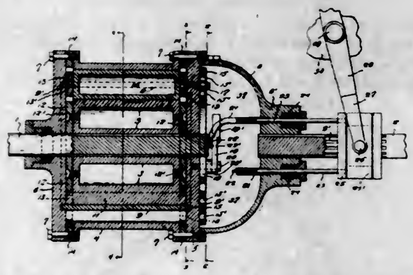
8. Car unloading apparatus of the class described comprising a traveling crane structure movable longitudinally of the car to be unloaded, a trolley on the crane movable transversely of the car, a frame on the trolley pivotally supported on the trolley to rock on an axis transverse to the direction of travel of the trolley whereby the frame may swing in the direction of the longitudinal axis of the car, motor-driven means and gearing for rocking the frame in an arc fore and aft of the car for shoveling the contents thereof, an agitator movable axially in the frame and comprising an elongated rigid ram element, and other reversible power driven means for operating the agitator to move axially in the frame either simultaneously with or separately from said rocking movement of said frame.

2,406,547
CATALYTIC CRACKING PROCESS
Paul E. Kuhl, Madison, and Albert B. Welty, Jr., Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 7, 1940, Serial No. 355,740
2 Claims. (Cl. 196—52)



1. A hydrocarbon oil conversion process which comprises providing a bed of fresh cracking catalyst and maintaining said bed at catalytic conversion temperature during a period of processing, continuously passing a stream of hydrocarbons through the catalyst bed during the processing period and converting a substantial portion of the hydrocarbons into gasoline in said bed, said stream being introduced to said bed at a substantially uniform conversion temperature throughout the processing period, whereby the activity of the catalyst is gradually diminished by deposition of carbonaceous matter thereon, producing from the hydrocarbons a substantially saturated gasoline during the initial portion of the processing period when the catalyst bed is in a state of high activity and an unsaturated gasoline during a subsequent portion of said period when the catalyst bed is in a state of diminished activity, and separately collecting said substantially saturated gasoline and said unsaturated gasoline.

2,406,548
FLUID TRANSMISSION AND CLUTCH MEANS
Joel L. Landrum, Clovis, N. Mex.
Application June 19, 1945, Serial No. 600,394
5 Claims. (Cl. 192—58)



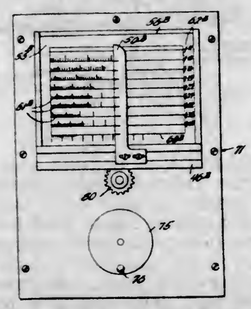
5. A fluid transmission clutch device, comprising a closed, hollow, cylindrical, main body shell having head walls at its opposite ends, a closed, hollow, fluid reserve supply casing attached cooperatively endwise to said main body shell coaxially therewith and outside one of the head walls of the shell, a shaft secured at its end portion to the outer end of said fluid reserve supply casing whereby to rotate by and with the casing and the attached main body shell, another shaft having its portion adjacent one end thereof extended axially through said main body shell and journaled rotatably in the opposite head walls of the shell, an inner cylinder mounted coaxially and fixedly on said second mentioned shaft to rotate therewith within said main body shell, an intermediate cylinder mounted freely rotatable within said main body shell concentrically with relation to said shell and said inner cylinder and constituting an annular partition wall between said main body shell and said inner cylinder, said intermediate cylinder being provided with a plurality of annularly spaced longitudinal openings of substantial width therein, a plurality of rotatable partition and abutment cylinders disposed rotatably within said longitudinal openings of the intermediate cylinder and in certain rotative positions of the same being adapted to close said longitudinal openings, said main body shell having an annularly spaced plurality of internal radial ribs, the inner edge portions of which ride in wiping contact with the outer peripheral face of said intermediate cylinder, said inner cylinder having a plurality of annularly spaced ribs extending lengthwise of the circumferential face thereof with the outer edge portions of said ribs

riding in wiping contact with the interior cylindrical surface of said intermediate cylinder, said partition and abutment cylinders each having a longitudinally recessed portion to alternately and successively receive said longitudinally ribbed portions of said main body shell and said inner cylinder, said main body shell, said partition and abutment cylinders, and said inner cylinder having geared provision between them whereby, upon rotation of said main body shell or said inner cylinder free of fluid resistance thereupon, said partition and abutment cylinders are rotated positively by the rotation of said main body shell so as to travel around said inner cylinder and moving rotatively therewith said intermediate cylinder or by rotation of said inner cylinder the partition and abutment cylinders are similarly rotated with substantially the same operative effect of said intermediate cylinder, there being provided a fluid passage between said main body shell and said fluid reserve supply casing, and controlling means for opening and closing said fluid passage.

2,406,549
LUBRICANT CONTAINING CONDENSATION PRODUCT
Eugene Lieber, West New Brighton, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 28, 1941, Serial No. 416,825
7 Claims. (Cl. 252—57)

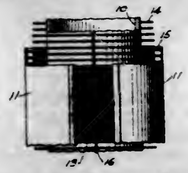
1. A lubricant comprising a major proportion of lubricating oil and a pour-depressing amount of a Friedel-Crafts condensation product of an aromatic compound and a saturated ester having less than 10 carbon atoms, said condensation product being soluble in mineral oils, and substantially non-volatile at temperatures up to 600° F. under fire and steam distillation.

2,406,550
DIAPHRAGM CONTROL
Henry R. Long, Linden, N. J., assignor to American Type Founders, Inc., Elizabeth, N. J., a corporation of New Jersey
Application August 29, 1942, Serial No. 456,686
2 Claims. (Cl. 95—64)



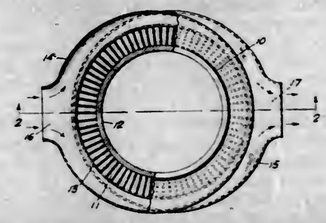
1. A process camera installation which comprises a camera proper including negative holder, lens board, and bellows, a lens and diaphragm unit mounted on said lens board and provided with a diaphragm aperture adjusting element, a remote control means comprising an actuator adapted to be located at a distance from the lens board and comprising a Selsyn motor member, manual means for angularly displacing the shaft of said motor member to a degree proportionate to the desired adjustment of the lens aperture, a mated Selsyn motor member at the lens board and operatively connected to the aperture adjusting element, and electrical connections between said Selsyn motor members.

2,406,551
CYLINDER COOLING STRUCTURE FOR AIRCRAFT ENGINES
Charles E. Lucke, New York, N. Y., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 28, 1943, Serial No. 500,334
16 Claims. (Cl. 123—171)



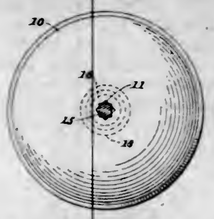
16. In an air cooled internal combustion engine cylinder in which the cooling air flows transversely across and around said cylinder, the combination of externally extended thermally integral metal members in the path of the cooling air, a jacket having inlet and outlet openings and enclosing the air stream, and means for equalizing the temperature of the cylinder walls circumferentially thereof, said means comprising a circumferentially decreasing air flow area between said inlet and outlet openings, circumferentially increasing metal surfaces swept by the air between said inlet and outlet openings whereby said metal surfaces may receive heat from conduction from said cylinder, and a circumferentially increasing cross section of metal conducting heat from the cylinder to said air swept air surface.

2,406,552
AXIAL FLOW COOLING STRUCTURE FOR AIRCRAFT ENGINES
Charles E. Lucke, New York, N. Y., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 28, 1943, Serial No. 500,335
6 Claims. (Cl. 123—171)



1. A cooling construction for internal combustion engine cylinders comprising in combination, an engine cylinder, spine cooling members thermally integral with the wall thereof and projecting generally radially outward therefrom, a heat conducting jacket surrounding said cylinder and spines, said jacket being thermally united to said spines, and an inlet member having an opening at one side thereof and attached to and surrounding said cylinder and jacket at one end thereof for admitting air to the space within said jacket uniformly distributing said air circumferentially of said cylinder, whereby said cooling air may pass axially through said jacket and about said spines.

2,406,553
DISK MOUNTING
Joseph Mader, Chicago, Ill., assignor to Maremont Automotive Products, Inc., Chicago, Ill., a corporation of Illinois
Application February 12, 1945, Serial No. 577,420
3 Claims. (Cl. 97—217)



1. A harrow having a shaft, a plurality of spaced harrow disks carried thereby, spacer members on said shaft for spacing said disks, said disks and spacer members having openings receiving the shaft, said spacer members having means engaging said disks on opposite sides thereof, the walls of the disk openings engaging the shaft to fix the disks thereto for rotary movement, and the walls of said disk openings also having a configuration for mounting on a different sized shaft of greater or less cross section to hold said disks fixed thereon.

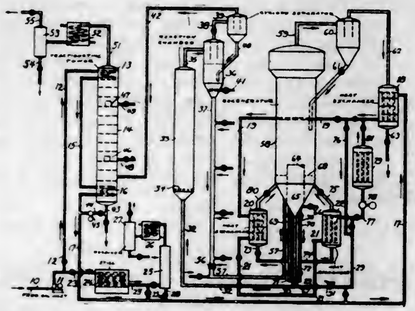
2,406,554
HEATING METAL BODIES PREPARATORY TO HOT WORKING
Kirtland Marsh, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 28, 1943, Serial No. 515,938
6 Claims. (Cl. 263—52)



1. A process for heat conditioning cast metal bodies of an aluminum alloy and the like for initial working at a given hot working temperature comprising introducing simultaneously into a heating furnace a multiplicity of said bodies removing said bodies from said furnace simultaneously after bringing them to and maintaining them at a temperature greater than said working temperature to effect metallurgical conditioning thereof, cooling said removed bodies in air, introducing all of said removed bodies into a second furnace in side by side relation at an average temperature about equal to said working temperature to check cooling thereof, effecting equalization of the temperature of said bodies in said second furnace at substantially said working temperature, and moving said bodies through said second furnace to discharge them one at a time.

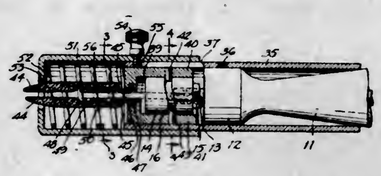
2,406,555
PROCESS FOR THE CONVERSION OF HYDROCARBON OILS
Homer Z. Martin, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 13, 1941, Serial No. 410,657
3 Claims. (Cl. 196—50)

1. In a process of catalytically converting residual oils containing constituents unvaporizable without substantial decomposition into motor fuel wherein the oil is cracked in the presence of a solid adsorbent catalyst in subdivided form and the catalyst regenerated at a temperature higher than the cracking temperature; the method which comprises passing the residual oil to be cracked in indirect heat exchange relation with regenerated catalyst to thereby preheat said oil and cool said catalyst, returning said cooled regenerated catalyst to the regenerating zone, mixing said oil with regenerated catalyst while said catalyst is



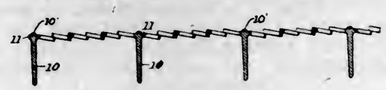
at substantially the regenerating temperature, adding sufficient catalyst to said oil to supply all of the additional heat necessary for cracking said oil and completely adsorb all oil constituents remaining unvaporized at the mixing temperature, passing the resulting mixture through a cracking zone, maintaining said oil vapors within said cracking zone to obtain the desired cracking thereof, separating the cracked products from the catalyst and fractionating the cracked products to segregate the desired fraction therefrom.

2,406,556
HONING MACHINE
Ernest F. Moon, Denver, Colo., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application September 16, 1943, Serial No. 502,565
7 Claims. (Cl. 51—170)



1. In a finishing tool, a drive unit including a housing and a rotatable drive shaft mounted therein, cam means on said drive shaft, a supporting sleeve engaged about said housing and including a portion from said housing in surrounding relation to said cam means and constituting slideway guide means arranged parallel to the axis of said drive shaft, a tool carrier mounted for reciprocation in said guide means, cam engaging means carried by said tool carrier and engaged with said cam means, whereby rotation of said cam means imparts reciprocation to said tool carrier, a tool carried by said tool carrier projecting forwardly therefrom, and a spring projected tubular protective cover member slidably engaged with said supporting sleeve and having an apertured forward end through which said tool is adapted to be projected through retraction of said cover member.

2,406,557
STRUCTURAL MEMBER
Harry S. Nagin, McKeesport, Pa., assignor to Reliance Steel Products Company, McKeesport, Pa., a corporation of Pennsylvania
Application June 2, 1943, Serial No. 489,330
1 Claim. (Cl. 94—30)

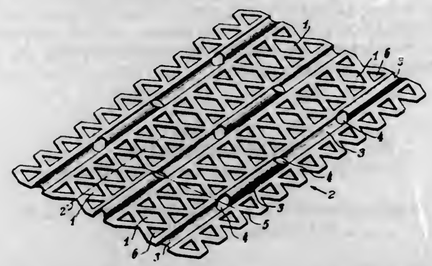


An integral grated flooring structural panel comprising a rolled or extruded continuous flat platform having integral therewith a plurality of more than two spaced, parallel disposed, solid flanges depending from one surface only of said flat platform and serving as bearer bars, said platform being of uniform thickness between said bearer bars, said platform being slit and expanded between the said bearer bars to form a grating comprising a plurality of bearer bars with expanded metal structure between said bars and integrally connected therewith.

2,406,558
ACRYLIC RESINS
Henry T. Neumann, New York, N. Y., assignor of one-third to Leon G. Arpin, Montclair, N. J., and one-third to Edward L. Symonds, Jackson Heights, N. Y.
No Drawing. Application December 10, 1943, Serial No. 513,713
3 Claims. (Cl. 260—9)

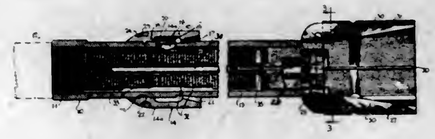
1. A method of utilizing scrap polymeric methyl methacrylate resin including cellulosic matter comprising treating the same for from about 2 to 24 hours in a solution of from about 5 to 10% of sodium sulphide, next treating the same for about from 2 to 3 hours in a solution of from about 5 to 10% of sodium bisulphite, washing the same in water, and then dissolving the scrap and treated cellulosic matter in benzene and a monohydric alcohol of the saturated aliphatic series.

2,406,559
FABRIC FOR CONCRETE CONSTRUCTIONS
William Oakes, Hale, England
Application August 17, 1945, Serial No. 611,016
In Great Britain June 14, 1944
11 Claims. (Cl. 72—109)



1. A form fabric of a single thin sheet of metal, having rows of close perforations at spaced points to allow of easy bending and breaking at such rows, and having an imperforate portion containing parallel corrugations or flutes at longitudinally spaced points, each corrugation or flute being intermittent, first to one side of the sheet and then to the other, so as to form a through passage or tunnel along the sheet.

2,406,560
ROCKET MOTOR
Winslow B. Pope, Detroit, Mich., assignor, by mesne assignments, to United States of America
Application December 30, 1943, Serial No. 516,155
9 Claims. (Cl. 60—35.6)



9. A tubular casing for a rocket-propelled device, adapted to contain a combustible propelling charge and having in a circumferential zone at least one aperture through the wall thereof for discharging from the interior thereof gases resulting from the burning of the propelling charge, an annular member surrounding said casing and closely fitting said casing at one side of said zone and extending from said one side axially over and substantially beyond said zone in circumferentially spaced relation, and a plurality of radially extending dowel pins extending through said annular member into said casing at said one side for locking said member against movement on said casing.

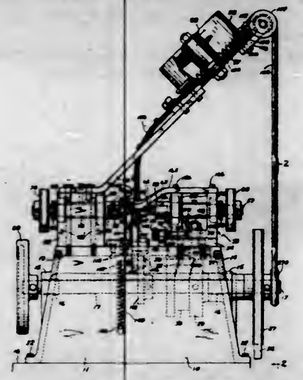
2,406,561
AZEOTROPIC DISTILLATION OF METHANOL FROM ADMIXTURE WITH ACRYLIC ESTERS
Chessie E. Rehberg, Philadelphia, Pa., assignor to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office
No Drawing. Application December 27, 1943. Serial No. 515,799
2 Claims. (Cl. 202—42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the process of preparing higher acrylic esters by the alcoholysis of methyl acrylate, the step which comprises removing the methanol formed in the alcoholysis reaction by distilling it as an azeotrope with an aliphatic hydrocarbon having a boiling point at least 5° C. below the boiling point of methyl acrylate but not less than about 40° C.

2,406,562
TRIMMING MACHINE
Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application May 6, 1944, Serial No. 534,509
6 Claims. (Cl. 82—2)

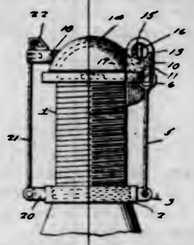
1. A machine for trimming cup-shaped articles comprising rotatable article supporting means; rotatable means mounted to reciprocate in a path in axial alignment with said supporting means to feed an article thereon and to frictionally engage the article therewith; means for positively rotating said article supporting means and the article feeding means at substantially the same speed; a blade; drive means adapted to move the supporting means and feeding means longitudinally simultaneously in the same direction and toward

said blade to carry the article into engagement therewith; and means carried by said feeding



means constructed and arranged to strip a trimmed article off of said supporting means.

2,406,563
VALVE CAP
Wesley J. Roberts, North Little Rock, Ark.
Application June 8, 1945, Serial No. 598,374
3 Claims. (Cl. 138—89.3)



1. A valve cap comprising an anchor member adapted to be secured to a valve stem, a sealing cap member pivotally secured to said anchor member and adapted to overlie the top of the valve stem in sealing relation thereto, a clamping element pivotally secured to said sealing cap member and adapted to overlie said sealing cap member and means securing said clamping element to said anchor member in clamping relation to said sealing cap member.

2,406,564
COMPOUNDED LUBRICATING OIL
Dilworth T. Rogers, Plainfield, and John G. McNab, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 10, 1943, Serial No. 486,428
25 Claims. (Cl. 252—42.7)

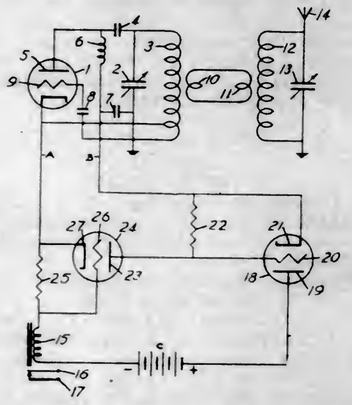
1. An organic material containing a stabilizing quantity of a reaction product of at least 2 gram atoms sulfur with 1 mol of a compound having the structure—

ArXMT

where Ar is an aromatic nucleus, X is a nonmetal of group VI of the periodic table, M is a divalent metal of group II of the periodic table and selected from the class consisting of calcium, barium, strontium, magnesium and zinc, and T is a member of the class consisting of OH and (OM)$_n$XAr, where M, X and Ar have the meanings given above and n is a number of the class consisting of O, 1, and 2.

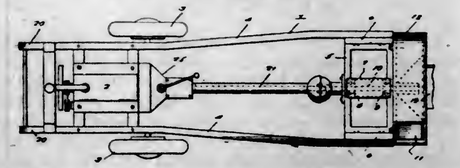
17. As a composition of matter a sulfur-containing product obtained by reacting at least 2 atomic proportions of elemental sulfur with one molecular proportion of metal phenate in which the metal is a divalent metal of group II of the periodic table and selected from the class consisting of calcium, barium, strontium, magnesium and zinc.

2,406,565
ELECTRONIC AMPLIFIER AND MODIFIER
Robert G. Rowe, Niagara Falls, N. Y.
Application October 15, 1943, Serial No. 506,381
8 Claims. (Cl. 250—27)



1. A circuit arrangement for amplifying the current change in a series circuit, comprising in series a source of at least substantially constant voltage, a variable resistance control device, a current responsive device constituting a load, and the anode and cathode of an electron tube, further provided with at least one control grid electrode; resistance means connecting the grid and cathode of the last named electron tube, means to supply a potential difference between the last named electrodes, said means consisting of a second electron tube with at least an anode, cathode and control grid electrode, and means for connecting the anode of the second named tube to the grid of the first named tube and the grid and cathode of the second named tube across a resistance placed in the series circuit, whereby the maximum to minimum current ratio in the series circuit is increased.

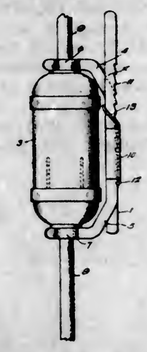
2,406,566
GRAIN BLOWER
Cecil C. Rowley and Leslie C. Walgren, Wauneta, Nebr.
Application July 3, 1945, Serial No. 603,058
6 Claims. (Cl. 302—17)



1. A grain conveyor comprising a chassis mounted intermediate its length on a pair of

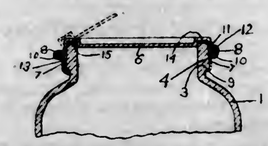
wheels, a prime mover mounted on said chassis on one side of said wheels, and a suction fan mounted on said chassis on the other side of said wheels, said suction fan being connected to said prime mover and being spaced with respect to said wheels so as to substantially counterbalance said prime mover.

2,406,567
HOLDER FOR CORDS OF ELECTRICAL CONNECTORS
Aloysius J. Schueneman, Waukegan, Ill.
Application March 10, 1945, Serial No. 582,072
2 Claims. (Cl. 173—328)



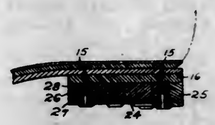
1. A cord holder for attachment to the electric cords at opposite ends of an electrical connector comprising a pair of bars adapted to extend alongside said connector in side-by-side aligned relation, said bars having relatively opposite laterally extending end portions adapted to embrace opposite ends of the connector, said portions terminating in resilient forked grips adapted to straddle and frictionally grip the cords at opposite ends of the connector, and coacting interlocking devices on said bars, respectively, for preventing relative endwise movement of the same in a direction to separate said grips, said devices providing for swinging of said bars relatively to break the interlock between the devices, said devices comprising a channeled flange on one bar receiving the other bar therein, ratchet teeth on said other bar, and a detent dog on said flange for engagement with said teeth.

2,406,568
CONTAINER
Harry Sebell, Marblehead, Mass.
Application March 5, 1945, Serial No. 581,086
5 Claims. (Cl. 215—63)



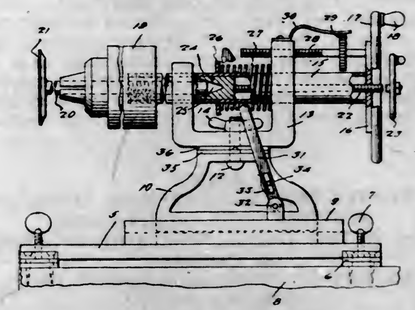
2. A container comprising a container body having an open top, thereby forming a top edge to the container body, said body being provided with an exterior downwardly facing shoulder below said top edge, and a closure for the open top comprising a cap member and a band member, said band member encircling the upper portion of the body and having its lower end bent inwardly underneath said shoulder and also having at its upper edge an outwardly directed sealing flange which is located below the top edge of the container body, said cap member being formed with a peripheral skirt portion which encloses the upper portion of the container body above the sealing flange of the band member and having extending therefrom a hinge-forming tab which is anchored to said band member, said skirt portion of the cap member being provided at its lower edge with an outwardly directed sealing flange that mates the sealing flange of the band member, and a U-shaped sealing strip embracing the two sealing flanges and holding them tightly clamped together.

2,406,569
RUBBER HEEL
Morris L. Silverstein, Dorchester, Mass.
Application June 14, 1944, Serial No. 540,193
1 Claim. (Cl. 36—35)



A rubber heel comprising a body portion adapted to be secured to the heel base of a shoe, and a collar removably attached to the periphery of said body portion, the two parts having complemental surfaces meeting on a line inclined to the tread surface of the heel and extending from said surface toward the central portion of the heel so that the collar is held against displacement by the engagement of said inclined surfaces, the collar having tread surfaces around its side and back portions and a cross bar at the front, said bar being disposed in a plane remote from said tread surface and said body portion having a projecting ledge defining an underlying channel receiving said cross bar, whereby the cross bar is anchored in said channel until displaced therefrom by a forward movement parallel to the tread surface of the heel.

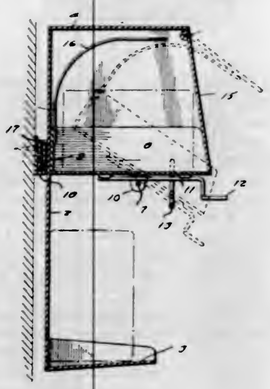
2,406,570
VALVE FACING DEVICE
Ralph D. Sprung, Rosemead, Calif.
Application June 5, 1945, Serial No. 597,639
1 Claim. (Cl. 51—237)



A valve holder for use while refacing a valve and including an attaching member, a pair of spaced parallel guides on said attaching member, an upstanding base slidably mounted in said guides, a lever pivoted to one of the guides and operatively engaged with the base for slidably actuating the base, a U-shaped support pivotally

mounted on the base for horizontal swinging movement, means for securing the support in pivotally adjusted position on the base, a sleeve slidably and rotatably mounted in the support, means at one end of the sleeve for securing a valve stem therein, an adjusting screw extending longitudinally in the sleeve, a head at the inner end of the screw having a conical recess adapted to receive the inner end of the valve stem to center the valve stem in the sleeve, spring means between the support and the sleeve for urging the sleeve forwardly in the support, an adjusting screw between the sleeve and the support for limiting forward movement of the sleeve, and a hand wheel at the rear end of the sleeve for the manual rotation thereof.

2,406,571
SOAP CONTAINER
Walter H. Stoehr, Cheney, Kans.
Application April 10, 1945, Serial No. 587,567
2 Claims. (Cl. 45—28)



2. A soap receptacle comprising a body member having a rear wall, a top wall and side walls connected to one another, a bottom member pivotally supported between said side walls, the plane of pivotal support thereof being forward of the central plane of said body member, the rear portion of said bottom member normally abutting and being supported by said rear wall, a front closure member pivotally supported between said side walls at their upper forward portions, and an upwardly and forwardly extending arm secured to the rear portion of said bottom member for moving said closure member to an open position responsive to tilting of said bottom member.

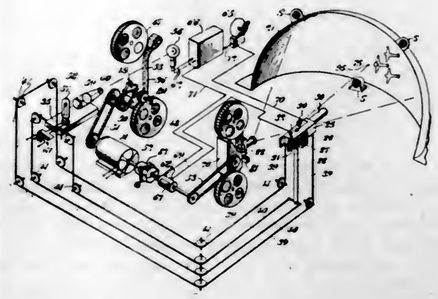
2,406,572
EXPLOSIVE PERCHLORATES OF ALIPHATIC NITROGENOUS COMPOUNDS
Walter W. Vogl, Omaha, Nebr., assignor to Ralph E. Svoboda
No Drawing. Application June 13, 1941, Serial No. 397,968
10 Claims. (Cl. 52—1)

1. An explosive containing as its essential constituent a perchlorate of a basic nitrogenous compound of an ethylenic hydrocarbon, said compound having more than two basic nitrogenous groups and of which a part only of the basic nitrogenous groups are combined with perchloric acid.

2,406,573
EXPLOSIVE AND PROCESS OF MAKING
Walter W. Vogl, Omaha, Nebr., assignor to Ralph E. Svoboda
No Drawing. Application August 17, 1942, Serial No. 455,126
5 Claims. (Cl. 260—583)

1. An explosive containing as its essential constituent a compound of ethylene diamine in which one amino group of the diamine is linked to perchloric acid and the second amino group is combined with a polynitroaromatic body of acid character.

2,406,574
GUNNERY TRAINING
Fred Waller, Huntington, N. Y., and Willis Robert Dresser, Long Hill, and Henry Martyn Baker, Essex, Conn., assignors to The Vitarama Corporation, New York, N. Y., a corporation of New York
Application October 17, 1941, Serial No. 415,374
52 Claims. (Cl. 35—25)

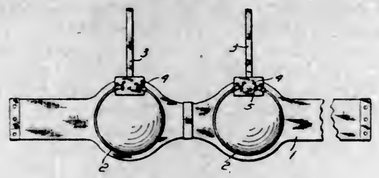


1. Gunnery training apparatus comprising in combination, a screen, a picture projector for directing a target image on the screen, a dummy gun mounted for coordinate vertical and horizontal movement so as to be aimed toward the target image on the screen, position means mounted for controlled movement and controlled by the position of said dummy gun, index means having characteristics corresponding to and established in accordance with factors affecting the flight of a projectile from the gun to the target and the features of the target image, and means influenced jointly by said position means and said index means for furnishing an indication of a hit or miss.

2,406,575
PREPARATION OF AN IMPROVED LUBRICANT
David W. Young, Roselle, N. J., and Harris D. Hineline, Mount Vernon, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 8, 1944, Serial No. 544,148
11 Claims. (Cl. 252—46.6)

2. An improved lubricant comprising in combination a hydrocarbon material and a solute therein comprising .5% to 20% of a cyclicized, phosphorous pentasulfide treated, polymer of a polyolefin having 6 to 14 carbon atoms per molecule, a molecular weight between 3,000 and 100,000 and an iodine number after cyclicizing between 5 and 50.

2,406,576
BREAST SUPPORT
Helene Ax, New York, N. Y.
Application December 28, 1944, Serial No. 570,061
1 Claim. (Cl. 2—42)



In a breast support comprising a pair of supporting elements consisting of hoops of a springy material for disposition under the breasts of the wearer, detachably provided at the inner side of a brassière of the usual type; said hoops consisting of rings open at the top and means for attaching said rings to the inner side of the brassière, consisting of hooks provided at the open ends of the rings, and eyes attached to a pad sewn at the proper places on the brassière, near where the shoulder straps are connected to the same.

2,406,577
EXTRACTION OF IRON FROM TITANIFEROUS ORES
Hugh V. Alessandroni, New York, and Borivoj V. Sterk, Woodside, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 8, 1942, Serial No. 454,185
6 Claims. (Cl. 23—87)

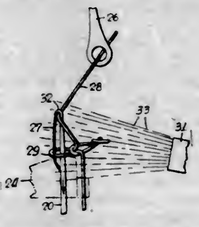
1. Method for extracting iron from titaniferous ores which comprises dissolving in hydrochloric acid of a specific gravity approximately 1.10 at least 0.5 mol of a soluble chloride salt selected from the group consisting of the chlorides of the alkali metals, the alkaline earth metals and aluminum per liter of acid, admixing the so-treated acid with ground iron-containing titaniferous ore, heating the mixture at temperature between 70° C. and the boiling point of said mixture until a substantial dissolution of the iron contained in the said ore is effected, and separating the undissolved residues from the iron-containing solution.

2,406,578
PRODUCTION OF PARA NITROACETANILIDE
Edward H. Bart, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 2, 1946, Serial No. 651,626
3 Claims. (Cl. 260—562)

1. A process for the production of p-nitroacetanilide, which comprises mixing acetanilide with concentrated nitric acid and thereafter slowly adding the resulting liquid to previously cooled concentrated sulfuric acid.

2,406,579
NEEDLE-CONTROLLING MECHANISM FOR KNITTING MACHINES
Rudolph Bassist, New York, N. Y.
Application April 28, 1945, Serial No. 590,814
2 Claims. (Cl. 66—98)

1. In a knitting machine, a needle comprising a shank and a turned-back beard, said beard being adapted to move toward and away from said shank during the knitting operation, said beard being composed of a material readily responsive to magnetic force, an electro-magnet positioned



to exert its force upon said beard and thereby effect movements of the latter, and means for energizing and de-energizing said electro-magnet in timed relation to the knitting cycle.

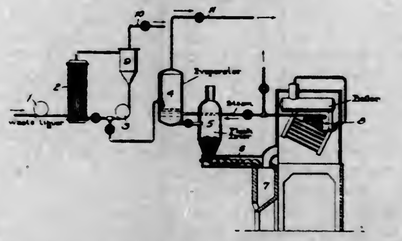
2,406,580
OPTICAL GLASSES
Raymond Edward Bastick, Wilfred Marsh Hampton, and Ta-Hang Wang, Smethwick, Birmingham, England, assignors to Chance Brothers Limited, Smethwick, Birmingham, England
No Drawing. Application January 2, 1945, Serial No. 571,106. In Great Britain November 11, 1943
8 Claims. (Cl. 106—53)

1. Optical glasses having the following essential constituents and within the range of proportions specified, namely:

	Per cent
Silica (SiO_2)	10–25
Barium oxide (BaO)	15–35
Boron oxide (B_2O_3)	10–30
Lanthanum oxide (La_2O_3)	8–20
Thorium oxide (ThO_2)	3–15
Zinc oxide (ZnO)	2– 8

the amounts of lanthanum and thorium oxides together being not more than 35% of the total glass composition.

2,406,581
PROCESS OF UTILIZING WASTE LIQUORS
Hilding Olof Vidar Bergström, Stocksund, and Karl Gustaf Trobeck, Stockholm, Sweden
Application May 22, 1943, Serial No. 488,094
In Sweden May 20, 1939
8 Claims. (Cl. 23—48)



7. A process of utilizing waste sulfate liquor which comprises concentrating the liquor while contacting it with air in quantity sufficient to substantially eliminate evolution of hydrogen sulfide during subsequent evaporation to dryness, then concentrating the oxidized liquor to a solids content of from about 80 to 95 per cent while under superatmospheric pressures and at a temperature of about 180° to 220° C., ejecting said concentrated liquor in a finely divided state into

a space maintained at substantially atmospheric pressure, so that flash drying to a porous solid takes place, without substantial evolution of hydrogen sulfide, and collecting said solids.

2,406,582
REMOVAL OF SULPHUR FROM MOLTEN METALLIC MASSES

Clarence George Bieber, Bengt Edward Ernst Franke, and Walter Franklin Sumpter, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

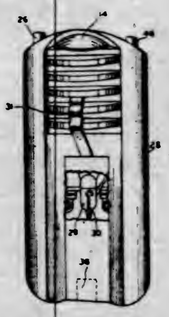
No Drawing. Application April 14, 1943, Serial No. 483,046
28 Claims. (Cl. 75—82)

1. A method of removing sulphur from a high sulphur nickel-containing mass which comprises treating said mass to remove the bulk of the sulphur and to reduce the sulphur content to less than about 1%, covering a molten bath of said mass containing less than about 1% sulphur and more than about 0.25% manganese with a slag of lime and fluorspar, incorporating in said bath an amount of a magnesium-containing soluble metallic agent sufficient to reduce the sulphur content of said bath under said slag to less than about 0.2%, holding said bath under said slag to allow sulphur to be taken up by said slag and to lower the sulphur content of said bath below about 0.2%, removing said slag from said bath, covering said bath with a second slag of lime and fluorspar, incorporating in said bath an amount of a calcium-containing soluble metallic agent such that the calcium added is equal to at least about one and one quarter times the sulphur to be removed from the bath, holding said bath containing the calcium agent under said second slag to allow sulphur to be taken up by said slag, removing said second slag from the surface of the bath, and removing any excesses of said calcium-containing agent.

2,406,583
PORTABLE APPARATUS

Ralph C. Blauvelt, Lakewood, Ohio, assignor to Zenith Radio Corporation, a corporation of Illinois

Application April 12, 1943, Serial No. 482,676
20 Claims. (Cl. 179—107)

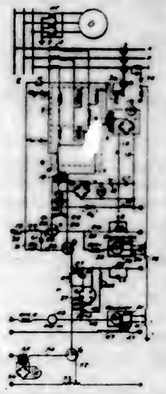


4. In combination, a hearing aid having a small, wearable case enclosing a microphone, a receiver, flexible leads only extending between said case and receiver, and an electrical switch mounted in said case and responsive to the orientation of the hearing aid case with respect to earth, whereby said switch may be actuated without moving said receiver.

2,406,584
RELAY

Myron A. Bostwick, Budd Lake, and Herbert W. Lensner, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 29, 1945, Serial No. 585,524
20 Claims. (Cl. 175—294)



1. Terminal equipment for a pilot-channel phase-angle-detecting relaying system adapted to protect a section of a three-phase transmission-line against faults, comprising phase-sequence means for developing two different single-phase control-voltages in response to two different phase-sequence functions of the line-current at the relaying terminal, local control-means responsive to a first one of said control-voltages for producing a succession of restraining impulses in response to positive half-cycles of said first control-voltage when said control-voltage exceeds a predetermined magnitude, and for producing a succession of operating impulses in response to negative half-cycles of said first control-voltage when said control-voltage exceeds a predetermined magnitude, means responsive to the second control-voltage for increasing the sensitiveness of the response of said local control-means to said first control-voltage, fault detector means for responding to a predetermined magnitude of said first control-voltage or to a predetermined magnitude of said second control-voltage, whichever control-voltage reaches its predetermined magnitude first, means for utilizing said fault-detector means in controlling said local control-means, pilot-channel means operative to transmit said succession of restraining impulses and to make them effective at another line-terminal or terminals, and phase-angle-detecting relay-means operative to respond to said operating impulses when they are not effectively opposed by restraining-impulses received from a distant line-terminal.

8. Terminal equipment for a pilot-channel phase-angle-detecting relaying system adapted to protect a section of a three-phase transmission-line against faults, comprising phase-sequence means for developing two different single-phase control-voltages in response to two different phase-sequence functions of the line-current at the relaying terminal, local control-means responsive to a first one of said control-voltages for producing a succession of restraining impulses in response to positive half-cycles of said first control-voltage when said control-voltage exceeds a predetermined magnitude, and for producing a succession of operating impulses in response to negative half-cycles of said first control-voltage when said control-voltage exceeds a predetermined magnitude, means responsive to the second control-voltage for increasing the sensitiveness of the response of said local control-means to said first control-voltage, fault-detector means for responding jointly to said first and second control-voltages, means for utilizing said fault-detector means in controlling said local control-means, pilot-channel means operative to transmit said succession of restrained impulses and to make them effective at another line-terminal or terminals, and phase-angle-detecting relay-means operative to respond to said operating impulses when they are not effectively opposed by restraining impulses received from a distant line-terminal.

2,406,585
GELATINIZATION OF STARCH

Ben F. Buchanan, Leonia, N. J., and Robert L. Lloyd, Laurelton, N. Y., assignors to American Maize-Products Company, a corporation of Maine

No Drawing. Application July 30, 1942, Serial No. 452,975
2 Claims. (Cl. 99—92)

2. A pie filling comprising flavoring material, starch in completely gelatinized condition, sucrose, starch conversion syrup solids of reducing sugars content calculated as dextrose 24% to 55%, and water, the proportion of water being at least 6 parts by weight to 1 part of total starch present, the proportion of the syrup solids being 25 to 75 parts for 100 parts of total weight of the said solids and sucrose, and the proportion of sucrose and said solids together being in excess of the proportion of starch present.

2,406,586
DYESTUFF COMPOSITION

Earl W. Clark, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

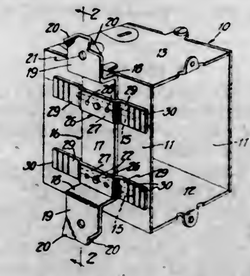
No Drawing. Application August 13, 1943, Serial No. 498,575
14 Claims. (Cl. 8—70)

10. A process for the coloration of textile materials, which comprises applying thereto a salt of an acid sulfuric acid ester of a leuco compound of a vat dyestuff together with caffeine, and developing the dyestuff by oxidation on the material in an acid medium.

2,406,587
ELECTRICAL SWITCH AND OUTLET BOX MOUNTING

Jacob B. Cooper, Park Ridge, N. J.

Application May 10, 1944, Serial No. 534,852
3 Claims. (Cl. 220—3.9)

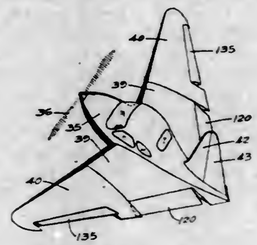


1. In combination, a metal electrical switch box open at its front and having a flat side wall, said side wall having spaced parallel slots therein which are elongated in a front to rear direction, a metal box-supporting bracket comprising a flat body portion of a width less than the length of said slots and flatly fitting against the exterior of said side wall in overlying relation to the slots and transversely thereof and having its ends extending beyond the respective slots, metal shield members carried by said body portion in overlying relation to said slots, each of said shield members being of a length to close the slot at all times within the range of sliding adjustment of the bracket, the end portions of each shield member having spaced weakened portions to facilitate the breaking off of the ends of the shield member should the same project beyond the plane of the front or rear of the box when in an adjusted installed position upon a support, outwardly offset attaching ears integral with the ends of the body portion and disposed parallel thereto, and screws freely passing through the slots and being threaded into threaded openings provided in said body portion, whereby said bracket may be adjusted forwardly and rearwardly relative to the side wall of the box to facilitate adjustment of the same during installation of the box in a wall structure.

2,406,588
AIRPLANE

George W. Cornelius, Dayton, Ohio, assignor to Flight Transportation, Inc., a corporation of New York

Application May 6, 1944, Serial No. 534,437
10 Claims. (Cl. 214—13)



1. In an airplane, a central structure comprising a fuselage and inner wing panels extended rigidly and with a forward sweep from opposite sides of said fuselage, directional control means, a pair of outboard wing panels disposed as substantial outward continuations of the respective inboard wing panels and supported thereon for limited rocking movement about generally horizontal axes to enable individual variation of the angle of incidence of such outboard wing panels, said inboard wing panels having the mean center of lift thereof disposed rearwardly of the center of gravity of the airplane and said outboard wing panels having their mean center of lift located forwardly of the center of gravity of said airplane, the front to rear lines of separation of the inner and outer wing panels being so disposed as to extend substantially through the points where the quarter chords of the inner wing panels are intersected by a transverse line extended from the most forward position of the center of gravity of the airplane perpendicular to the longitudinal axis of the airplane, control

means for operating said direction control means, and means for causing and controlling rocking movement at said outboard wing panels with relation to said central structure.

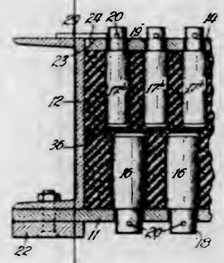
2,406,589

MOLDING APPARATUS

Marion Morgan Cunningham, South Bend, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Original application January 29, 1940, Serial No. 316,115. Divided and this application June 28, 1944, Serial No. 542,538

3 Claims. (Cl. 18—39)



3. A mold of the class described comprising a bottom wall with surrounding upwardly extending side walls forming a mold cavity, and a plurality of cores extending upwardly from said bottom wall part way to the top of said cavity, a removable cover insertible in the upper end of said mold cavity and having a plurality of depending cores which extend part way to the bottom of said mold cavity, said cover, in the cavity closing position, having a thin edge marginally spaced from the inner face of the surrounding side walls to provide escapement of excess material from the closed mold cavity.

2,406,590

METHOD OF PREPARING ALLYL AND METHALLYL ETHER ESTERS

Gaetano F. D'Alelio, Northampton, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application June 28, 1944, Serial No. 542,599

7 Claims. (Cl. 260—484)

1. The method of producing allyl allyloxyacetate which comprises preparing an aqueous mixture containing (1) allyl alcohol, (2) chloroacetic acid, and (3) a reagent which acts as a base, said allyl alcohol and chloroacetic acid being present in the said mixture in the ratio of at least two mols of the former per mol of the latter, effecting reaction between the said reactants in the said aqueous mixture to obtain a salt of allyloxyacetic acid, thereafter acidifying the reaction mass containing the said salt to yield allyloxyacetic acid, effecting further reaction in acid medium to obtain a reaction mass containing allyl allyloxyacetate, while removing water formed during esterification, and isolating allyl allyloxyacetate from the said reaction mass.

2,406,591

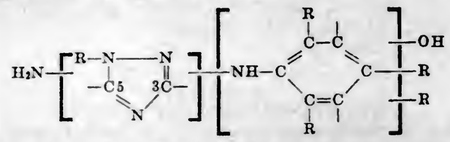
MIXTURES OF ISOMERIC TRIAZOLE DERIVATIVES AND PROCESS OF PREPARING THE SAME

Gaetano F. D'Alelio, Northampton, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application August 31, 1944, Serial No. 552,202

12 Claims. (Cl. 260—308)

1. A composition comprising a mixture of isomers represented by A and B, each of which corresponds to the general formula



where R represents a member of the class consisting of hydrogen and monovalent hydrocarbon radicals, in isomer A the —NH_2 grouping being attached to the carbon atom in the 3 position of the triazole nucleus and in isomer B to the carbon atom in the 5 position of the triazole nucleus.

2,406,592

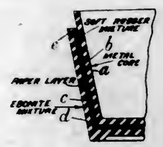
LIQUID CONTAINERS SUCH AS THOSE OF ELECTRIC ACCUMULATORS

Benjamin Lionel Davies, Little Lever, near Bolton, England, assignor to United Ebonite & Lorival Limited, Little Lever, near Bolton, England, a British company

Application May 25, 1943, Serial No. 488,422

In Great Britain January 5, 1942

3 Claims. (Cl. 154—43.5)



1. The method of producing a lined ebonite container in which a core of external shape corresponding to the interior of the container is covered with a thin layer of vulcanisable soft rubber mixture which is then covered by a layer or layers of paper coated, though not impregnated, with a solution of a vulcanisable rubber mix, and dried, the walls of the container which are made of a vulcanisable ebonite mixture being then built upon the paper covering, the whole being rolled firmly together and then subjected to vulcanisation which leaves the outer walls hard, the lining soft and the paper partially disintegrated.

2,406,593

CORRUGATED BUILDING CONSTRUCTION

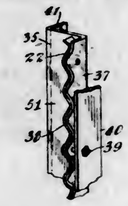
Lizzie H. Dickelman, Forest, Ohio, assignor to Dickelman Products Company, Forest, Ohio, a corporation of Ohio

Application August 19, 1944, Serial No. 550,150

7 Claims. (Cl. 189—2)

1. In a building, an upright beam constituting part of the frame for an opening and having a body portion with a face substantially perpendicular to the wall of the building and a flange joining said face along a straight line, and a corrugated wall plate having its corrugations running horizontally, its edge juxtaposed to said face

and the crests of its corrugations on one side lying against the flange, the flange having de-



pressions in its free edge fitting into the corrugations of the wall plate.

2,406,594

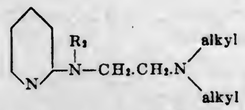
TERTIARY AMINES OF HETEROCYCLIC COMPOUNDS

Carl Djerassi, Madison, Wis., and Charles P. Huttrer and Caesar R. Scholz, Summit, N. J., assignors to Ciba Pharmaceutical Products Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application December 23, 1943, Serial No. 515,424

2 Claims. (Cl. 260—296)

1. An anti-histaminically active tertiary amine of the formula



wherein R_2 stands for aralkyl, and its salts.

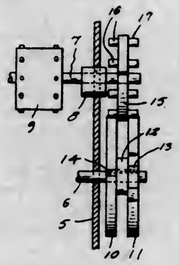
2,406,595

SPROCKET DRIVE FOR MOTION-PICTURE PROJECTORS

Charles W. Dyer, Stratton, Maine

Application March 14, 1945, Serial No. 582,695

3 Claims. (Cl. 88—18.3)



1. A sprocket drive for motion picture projectors and comprising a pair of spaced-apart driving cams, each of said cams having a radially projecting hump and a substantially shallow valley at diametrically opposite edges of the cam, a drive shaft connected to the cams and with the hump of each cam arranged adjacent the valley of the other cam, a driven disk, a feed sprocket attached thereto, and pegs projecting from opposite faces of the disk for alternate engagement by the humps and valleys to rotate the disk in a step-by-step movement.

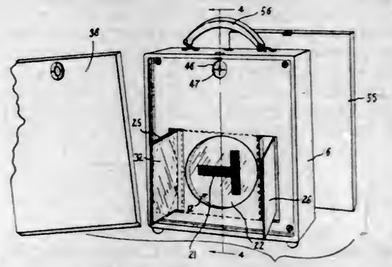
2,406,596

EYE TESTING MEANS

Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 24, 1943, Serial No. 515,554

4 Claims. (Cl. 88—20)



1. An eye testing device comprising a cabinet having opposed side walls and a front wall with an opening therein, said cabinet being open in the rear thereof, a support in the rear of the front wall having a pivot bearing in substantially axial alignment with the opening in the front wall, a disc in said opening having a pivot pin rotatably mounted in said pivot bearing, said disc having a test object on the front face thereof to be viewed by an individual under test positioned in front of said cabinet, manually operable means secured to said pivot pin in the rear of the front wall and within the confines of the side walls of said cabinet which may be operated to rotate the disc from the rear of the cabinet, a pair of shutter members pivotally supported, one adjacent each of the opposed sides of the disc for movement toward and away from said disc, one of said shutter members embodying a transparent filter of controlled density being positionable in overlying relation with the test object independently of said other shutter member and said other shutter member being formed of opaque material and being positionable in overlying relation with the test object and in overlapping relation with the first shutter member when said first shutter member overlies the test object and manually operable means carried by said shutter pivots and lying in the rear of the front wall and within the confines of the side walls of said cabinet which may be selectively operated from the rear of the cabinet to position the shutter members in desired relation with the test object.

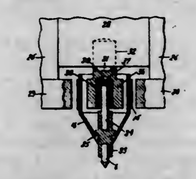
2,406,597

ELECTRIC PICKUP

Harold T. Faus, Lynn, Mass., assignor to General Electric Company, a corporation of New York

Application September 7, 1944, Serial No. 553,019

6 Claims. (Cl. 179—100.41)



4. An electric pickup or the like comprising a supporting head, a permanent magnet structure mounted on said head and providing two spaced pole pieces, a magnetic core supported on said

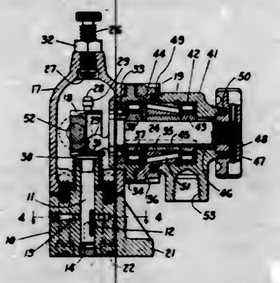
head between said pole pieces and equally spaced therefrom, said core having a recess therein opening outwardly between said pole pieces, and a stylus arm having a stylus at one end thereof and being resiliently supported at its other end in the recess in said core, said stylus arm extending outwardly from said head for holding said stylus in position for engagement with a record sound track, a hollow member secured to said stylus arm outwardly of said core and having a portion between said core and said pole pieces and concentric with respect to said core, and means including a coil on said concentric portion of said member for translating into electrical variations the vibrations of said stylus.

2,406,598
FACE SHIELD
Oscar S. Flood, Chicago, Ill.
Application October 9, 1943, Serial No. 505,612
6 Claims. (Cl. 2—12)



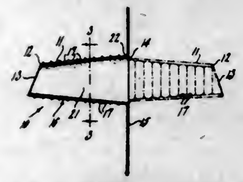
1. A face shield comprising a headband, a member secured to said headband for supporting a shield member, a shield member having a plurality of openings in the upper edge thereof, means for fastening said shield member to said member comprising a band having interlocking engagement with said member, and means passing through the openings in said shield member between said band and said member.

2,406,599
MECHANICAL LUBRICATOR
Bengt E. Folke, Mamaroneck, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a corporation of New York
Application February 28, 1944, Serial No. 524,208
8 Claims. (Cl. 184—27)



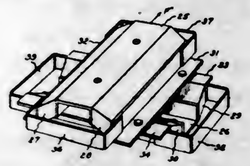
1. In a mechanical lubricator, a base having a chamber receiving oil from a source of supply outside the lubricator, a pumping piston slidingly engaging walls of said chamber and projecting exteriorly thereof, said piston and walls having minute clearance between them for slight leakage of oil, a housing over said exteriorly projecting piston secured to said base, ratchet mechanism secured to said housing in operative relation with said piston, and means to admit oil from a separate source of supply into said housing for lubricating said ratchet mechanism, the oil in said housing being automatically replenished by the slight leakage of oil from said chamber during the sliding engagement of the piston with the walls of the chamber.

2,406,600
MEDICAL APPLIANCE
Jasper A. Forestiere, Brooklyn, N. Y.
Application October 21, 1944, Serial No. 559,851
5 Claims. (Cl. 128—2)



1. A medical appliance comprising a tube of resilient material closed at one end by a relatively thin diaphragm, a shield at the open end of the tube, the wall of the tube being of gradually reduced thickness from the diaphragm to the shield.

2,406,601
CUSHION MOUNTING
George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application April 21, 1943, Serial No. 483,915
8 Claims. (Cl. 248—358)

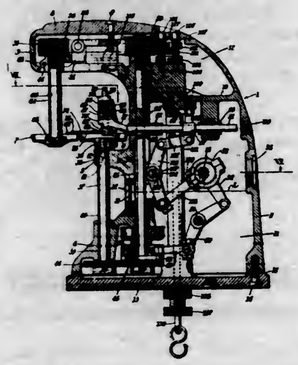


1. A cushion mounting for a member supported by means subject to undesirable vibrations comprising, a pair of transverse resilient members interposed between said member and said supporting means, said resilient members being mounted to set up shearing stresses opposing forces applied thereto along three mutually perpendicular axes, and means responsive to predetermined longitudinal deflections of one of said resilient members to produce lateral deflections of the other of said resilient members, said last means comprising a rigid structure attached to both of said resilient members, said rigid structure being arranged to contact said supported member after said predetermined deflections and to compress said other resilient member between said rigid structure and said supporting means.

2,406,602
TRIMMING MACHINE
Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 15, 1944, Serial No. 545,061
19 Claims. (Cl. 164—49)

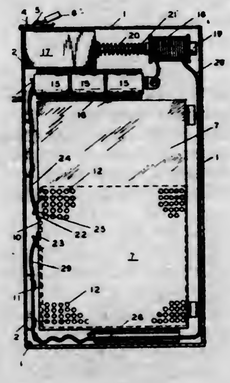
19. In a trimming machine, a pair of opposed and relatively yieldable outer and inner feed-cups disposed for rotation about vertical axes, means for rotating said feed-cups, a ledger blade disposed above and in close proximity to the outer one of said feed-cups, said ledger blade having a

cutting edge, a coacting movable cutting blade having a horizontal path of reciprocation above the inner of said feed-cups and across the cutting edge of said ledger blade at the upper side of said ledger blade, means for reciprocating said movable cutting blade, and a guide member disposed



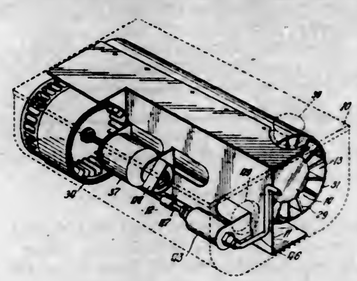
between said movable cutting blade and the inner of said feed-cups, said guide-member having a fabric-guiding edge opposed to the cutting edge of said ledger blade and disposed substantially in vertical register with the work-engaging face of said inner feed-cup.

2,406,603
PUNCHBOARD REGISTERING DEVICE
John S. Hadesbeck, Portland, Oreg.
Application March 13, 1945, Serial No. 582,544
3 Claims. (Cl. 235—92)



1. A punch board holding and registering apparatus including a casing to receive the punch board, a register in the casing for registering the individual punching operation, a coil for operating the register, a circuit including a source of energy for energizing the coil, spaced superimposed metallic plates overlying the holes in the punch board, said circuit being normally open due to the spacing of said plates and a punch for punching the holes in the punch board and terminally formed with an end to break the upper plate in line with the hole being punched and to move said broken part into contact with the lower plate to complete the circuit and operate the register.

2,406,604
CONTROL MEANS FOR LIQUID SUPPLY SYSTEMS
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application June 15, 1942, Serial No. 447,053
8 Claims. (Cl. 158—28)



1. In a heater which includes a heat exchange structure defining a fuel combustion chamber; a liquid fuel supply system for delivering fuel to said combustion chamber, means for vaporizing a portion of the fuel traversing said system as the temperature of said structure rises above a given value, and means included in said system for delivering combustible fuel to said combustion chamber at a mass rate which gradually decreases with increase in the rate of vaporizing of said fuel by said last-named means.

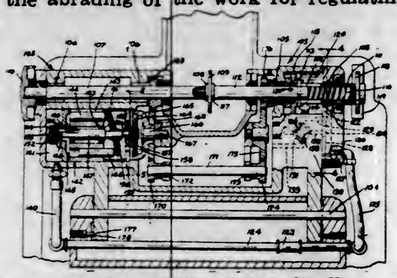
2,406,605
HYDROGENATION OF HALOGENOSILANES
Dallas T. Hurd, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 15, 1945, Serial No. 582,998
15 Claims. (Cl. 260—607)

1. The method which comprises contacting a mixture of (1) a halogenated silane having Si-bonded halogen atoms which are replaceable by hydrogen and (2) a material selected from the class consisting of hydrogen and hydrogen halides, in the vapor state and at an elevated temperature, with a metal selected from the class consisting of aluminum, magnesium and zinc, thereby to replace at least some of the halogen atoms of the said halogenated silane with hydrogen.

2,406,606
EDGING MACHINE
George W. Jackson, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 21, 1943, Serial No. 487,907
9 Claims. (Cl. 51—101)

3. In a device of the character described the combination of a rotatably supported abrading wheel, a work supporting head mounted for movement toward and away from the abrading wheel, means on said head for supporting workholder spindle means, a hydraulically operated power unit, motion transfer means between said power unit and the workholder spindle means for causing said workholder spindle means and work to be continuously rotated, a former carried by said spindle means adapted to engage a contact shoe, a fluid pressure line connected with said hydraulic power unit and means in said fluid line responsive to the movement on the contact shoe

through engagement thereof by the former during the abrading of the work for regulating the



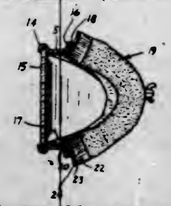
speed of rotation of the hydraulically operated power unit.

2,406,607
RIGGING CONNECTOR ELEMENT
Julius A. Jensen, Willamina, Oreg.
Application August 7, 1943, Serial No. 497,798
7 Claims. (Cl. 24—123)



1. A rigging connector element for pendently supporting a block by a length of cable having enlarged ferrules secured to the ends thereof, said connector element comprising an integral, relatively flat, hollow body of triangular contour, having two obliquely disposed elongated recesses formed therein extending diagonally toward two adjacent corners, respectively, each recess provided with a mouth at one end and a socket at the other, the mouths of each of said recesses being open and disposed adjacent each other and the third corner, and each of said recesses having a slot formed at one side thereof and adapted to pass said length of cable, but to retain a ferrule secured to the end thereof.

2,406,608
EYE PROTECTION MEANS AND METHOD OF MAKING THE SAME
William J. Joyce, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application August 6, 1943, Serial No. 497,566
5 Claims. (Cl. 2—14)

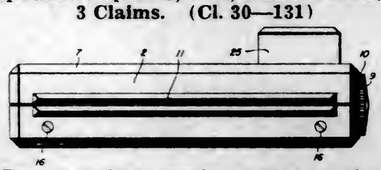


1. An interchangeable face engaging member for the eye cups of goggles, said face engaging member being of annular shape and comprising a plurality of thread-like fibrous portions arranged in side to side relation and joined with each other adjacent one end thereof by a binder lying substantially in a single plane and a layer of non-metallic stiffening material overlying and in binding relation with said binder to form a rigid backing member for supporting the opposed ends of the fibrous portions in substantially a single plane.

2,406,609
COATING COMPOSITIONS
Leonard M. Kebrich and Edwin P. Peterson, Brooklyn, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 14, 1943, Serial No. 494,894
5 Claims. (Cl. 106—256)

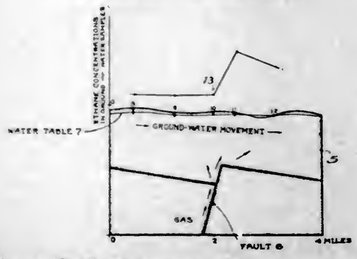
1. An improved vegetable drying oil coating composition containing a lead salt of a hydroxy aromatic acid.

2,406,610
ENVELOPE OPENING DEVICE
Frederick A. Kelsall, Boulder, Colo.
Application April 23, 1945, Serial No. 589,869
3 Claims. (Cl. 30—131)



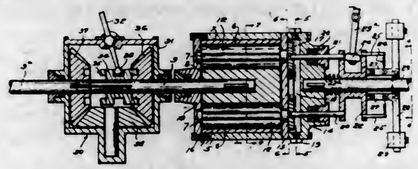
1. In an envelope opening device, an elongated substantially rectangular casing adapted to form a closed storage receptacle for envelope cuttings and embodying a front side and a top, said side having a longitudinal slot therein for insertion of one edge of an envelope therethrough into said chamber, a shearing blade in said chamber fixed to said side and having an upper shearing edge extending along the bottom of said slot, a second shearing blade in said chamber pivoted at one end of the fixed blade for rocking movement from normal position into cooperative relation to the fixed blade to cut said edge of the envelope with a shearing action, an edge extension on the other end of said pivoted blade extending through said top and provided with a lateral flange forming a presser member for rocking said pivoted blade, and a spring interposed between said top and said flange and thereby yieldingly retaining said pivoted blade in raised position.

2,406,611
GEOCHEMICAL PROSPECTING METHOD
Harvey T. Kennedy, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application July 3, 1940, Serial No. 343,864
2 Claims. (Cl. 23—230)



1. A method of prospecting a region of the earth for subterranean gas and oil deposits which comprises taking samples of ground water in the earth at a plurality of spaced points in the region, at levels adjacent the water table, said ground water samples being free from significant quantities of soil, confining the samples from access to air before substantial diminution of ethane concentration therein, and thereafter quantitatively determining traces of ethane dissolved in the samples as indicative of the presence of oil or gas.

2,406,612
AUTOMATIC HYDRAULIC CLUTCH
Joel Lee Landrum, Marfa, Tex.
Application November 7, 1942, Serial No. 464,868
2 Claims. (Cl. 192—61)



1. A hydraulic automatic-type clutch comprising a horizontally elongated cylindrical shell constituting a housing, a driven shaft journaled for rotation in one end of the housing and projecting into the interior thereof, an elongated sun gear keyed to said driven shaft and located centrally between the opposite ends of the housing and of a length commensurate with the housing, a sleeve of a length corresponding to the housing and located on the interior thereof and in movable contact with the inner peripheral surface of the rim of the housing, said sleeve being internally ribbed to provide teeth opposed to the teeth on said sun gear, a plurality of equidistant spacing and partitioning blocks mounted in said housing between the sun gear and sleeve gear, elongated planetary gears mounted for idling between the adjacent ends of the partitioning blocks and also between the sun gear and sleeve gear and simultaneously meshing with the teeth of said sun and sleeve gears, together with a plurality of intake and discharge ports formed at one end of the housing, fluid-trapping, circulating and port-enclosing means associated with the ports, and valve means coacting with and simultaneously opening and closing all of said ports.

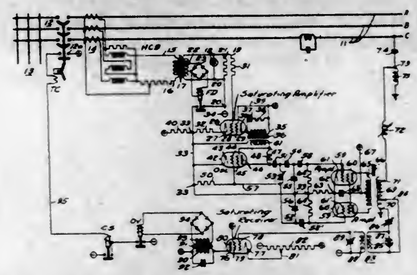
2,406,613
CONVERSION OF HYDROCARBON OIL
Edward C. Lee, deceased, late of Chicago, Ill., by James T. Cullinan, administrator, Chicago, Ill., and Charles L. Thomas, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 30, 1944, Serial No. 528,773
8 Claims. (Cl. 196—52)

1. A conversion process which comprises subjecting a hydrocarbon oil at conversion conditions to the action of a composite catalyst comprising silica, alumina and zirconia prepared by hydrolytically absorbing alumina and zirconia on a purified silica hydrogel and heating the resulting mass to remove a major portion of its water content.

2,406,614
CONVERSION OF HYDROCARBON OIL
Edward C. Lee, deceased, late of Chicago, Ill., by James T. Cullinan, administrator, Chicago, Ill., and Charles L. Thomas, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 30, 1944, Serial No. 528,774
8 Claims. (Cl. 196—52)

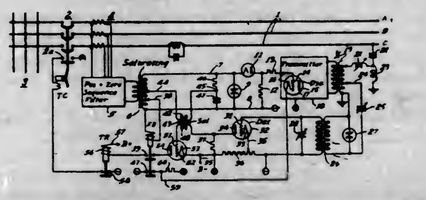
1. A conversion process which comprises subjecting a hydrocarbon oil at conversion conditions to the action of a catalyst comprising silica, alumina, and zirconia prepared by compositing a purified silica gel with decomposable salts of aluminum and zirconium and heating said composite to decompose said salts and form the oxides thereof.

2,406,615
CARRIER-CURRENT RELAYING
Herbert W. Lensner, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 8, 1942, Serial No. 468,237
20 Claims. (Cl. 175—294)



1. A protective relaying system, comprising the combination, with an alternating-current transmission-line section having circuit-interrupting means to be protectively controlled, of protecting relaying-apparatus including line-current deriving-means at each end of the line-section for deriving a line-frequency current from that end of the line-section, means for at times selectively producing, at at least one and the same end of the line-section, a succession of discrete impulses of electrical energy in response to alternate half-cycles of the two line-frequency currents which are derived from the two ends of the line-section, each half-cycle response being responsive to a substantially full half-cycle of the current which controls that response; and a relay means, at at least one end of the line-section, responsive to a predetermined condition of said succession of discrete impulses of electrical energy, integrated over a period of time which is at least equal to considerably over one-half of a line-frequency cycle, for exercising a control over the circuit-interrupting means at its end of the line-section.

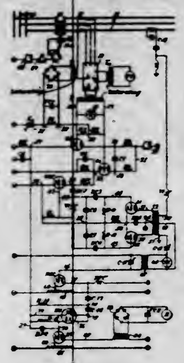
2,406,616
CARRIER-CURRENT PROTECTIVE RELAYING SYSTEM
Herbert W. Lensner, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 8, 1942, Serial No. 468,238
12 Claims. (Cl. 175—294)



3. Carrier-current controlling-means for an alternating-current line-section, comprising the combination, with a carrier-current transmitter, of means for at times causing carrier-current to be transmitted onto the line-section from the

transmitter, means for at such times deriving unidirectional voltage-impulses of a substantially constant magnitude and of the order of a half-cycle duration from alternate half-cycles of the line-current at that end of the line-section, and means for utilizing said impulses to block the transmission of carrier-current at that end of the line-section.

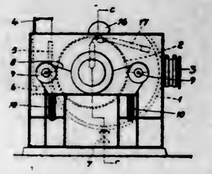
2,406,617
RELAY SYSTEM
Herbert W. Lensner, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 14, 1944, Serial No. 554,037
21 Claims. (Cl. 175—294)



1. Terminal equipment for one terminal of a pilot-channel phase-angle-detecting relaying-system adapted to protect a section of a three-phase transmission-line against faults, comprising means operative to develop a single-phase voltage having a phase which is responsive substantially solely to the positive-sequence component of the line-current at said terminal, local control-means operative to develop a succession of operating impulses in response to positive half-cycles of said voltage, pilot-channel means operative to transmit a succession of restraining impulses and to make them effective at another line-terminal or terminals in response to negative half-cycles of said voltage, and phase-angle-detecting relay-means operative to respond to said operating impulses when they are not effectively opposed by restraining impulses received from a distant line-terminal.

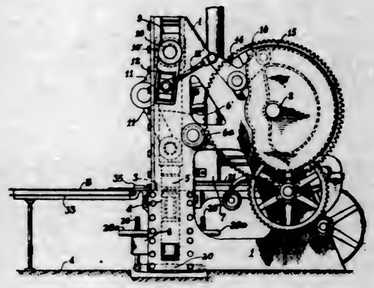
2,406,618
DEVICE FOR SORTING, DEHYDRATING, OR WASHING OF SUSPENSIONS OF FIBROUS MATERIALS
Karl Olof Lindgren, Djursholm, Sweden, assignor to Aktiebolaget A. Ekstroms Maskinaffar, Stockholm, Sweden, a joint-stock company of Sweden, and Nils Walfrid Jonsson, Lidingo, Sweden
Application February 4, 1943, Serial No. 474,652
In Sweden January 13, 1942
2 Claims. (Cl. 92—36)

1. An apparatus for sorting, dehydrating or washing of liquid suspensions of fibrous material, particularly paper pulp, comprising a stationary container for a liquid suspension, a rotatably mounted screening drum mounted and arranged for having its major portion submerged in the liquid suspension inside said stationary container, two yokes outside the container one at each end of the drum arranged to support said drum, vertically elastic members, each of said yokes being supported adjacent each end exclusively by said elastic members and adapted to be vibrated while so supported, two rotatable shafts mounted in said yokes and carrying eccentric weights for



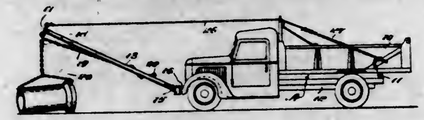
vibrating the yokes, means for rotating said shafts in synchronism, said shafts being located one on each side of said drum, laterally spaced from the central axis of rotation of the screening drum and adapted to transmit by the synchronous bodily movement of said shafts and yokes vibratory motion to said drum.

2,406,619
MECHANICALLY ACTUATED PRESS FOR TRIM TILE
Roland List and Anderson Flynn, Zanesville, Ohio, assignors to The Mosaic Tile Company, Zanesville, Ohio, a corporation of Ohio
Application March 30, 1945, Serial No. 585,578
9 Claims. (Cl. 25—94)



1. In a mechanically-actuated press for trim tile, the combination with a die cavity, upper and lower plungers having cooperating tile-pressing die-heads, each provided with horizontal flat surfaces and rib-forming extensions projecting from said flat surfaces, mechanically-actuated means for moving said plungers and die heads into tile-pressing position below the level of the top of said die cavity, means for producing a separating tile-releasing movement of said plungers and die-heads from each other and causing a movement to an elevated position above the level of the top of the die cavity of said lower die-head and its projecting rib-forming extension, a mechanically-actuated tile-ejecting and charging device synchronized with the movement to elevated position of the said lower die-head and having a portion movable over the surface of the die-head while in elevated position to push a trim tile off said lower die-head and across the die cavity into an initial position of said tile adjacent to the outer edge of said die cavity, and means for again moving said trim tile from said initial position to a position further removed from said die cavity.

2,406,620
HOISTING DEVICE FOR DUMP TRUCKS AND OTHER VEHICLES
James Perry Luckett, Jackson, Miss., assignor to Clifford Waterhouse, Jackson, Miss.
Application February 16, 1945, Serial No. 578,241
6 Claims. (Cl. 212—8)

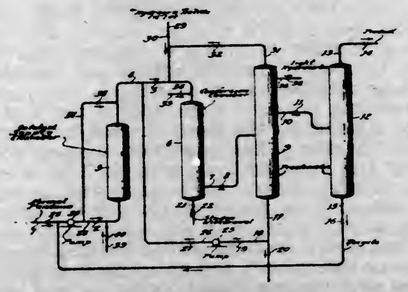


1. A vehicle of the kind described, comprising a dumping body swingable vertically, a hoisting jib in the form of a tapered skeleton frame provided with longitudinally disposed center braces vertically swingable on the front bumper of the vehicle, and connections between the body and the jib for the raising of the latter on the dumping movement of the said body.

2,406,621
METHOD OF PREPARING POLYSILOXANE RESINS
James Marsden, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application February 12, 1944, Serial No. 522,085
8 Claims. (Cl. 260—2)

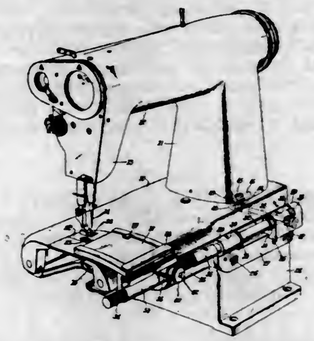
1. The method of making polysiloxane resins which comprises dissolving a mixture of methyl chlorosilanes containing an average of more than two chlorine atoms per silicon atoms in an aromatic hydrocarbon solvent and slowly adding the resultant solution to a two-phase hydrolysis medium comprising an aliphatic alcohol containing from 4 to 8 carbon atoms, an aromatic hydrocarbon solvent, and an aqueous solution of hydrochloric acid containing at least 35 per cent by weight of hydrogen chloride.

2,406,622
CONVERSION OF HYDROCARBONS
Julian M. Mavity, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 8, 1943, Serial No. 509,412
6 Claims. (Cl. 260—683.4)



1. In the catalytic conversion of a saturated hydrocarbon reactant wherein the reactant is commingled with a hydrogen halide promoter and subjected to conversion conditions in the presence of the promoter and an aluminum halide catalyst, the method which comprises passing at least a portion of said reactant, in liquid phase and prior to the commingling of the hydrogen halide promoter therewith, through a stationary bed of solid aluminum halide containing a metal selected from the group consisting of iron, aluminum, magnesium, tin, cadmium, nickel, copper and zinc, whereby to dissolve a portion of the solid aluminum halide in the liquid reactant while substantially preventing the formation of hydrocarbon-aluminum halide complex in said bed.

2,406,623
WORK-GUIDING MECHANISM FOR SEWING MACHINES
Walter Myers, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 30, 1943, Serial No. 516,158
15 Claims. (Cl. 112—2)

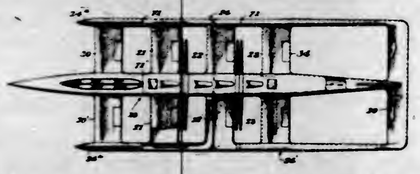


1. A spiral stitching mechanism comprising, in combination, a base-unit including a supporting pedestal having a lateral arm free at one end, a lead-screw rotatably supported by said base-unit and extending lengthwise of said arm, a work-guide operatively connected to said lead-screw to derive lateral movements therefrom upon rotation of the lead-screw, a sewing machine unit removably supported upon said base-unit and having a frame including a bed-plate and a bracket-arm overhanging the bed-plate, said sewing machine unit containing stitch-forming and work-feeding mechanism including a rotary driver-member, a driven-member journaled upon said pedestal coaxially of said driver-member and disposed for rotating engagement by said driver-member, and operative connections with said driven-member for rotating said lead-screw.

2,406,624
PROCESS OF MANUFACTURING INVERTASE PREPARATIONS
Carl A. Neuberg, New York, and Irene S. Roberts, Fieldston, N. Y., assignors, by mesne assignments, to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 8, 1943, Serial No. 475,178
5 Claims. (Cl. 195—66)

2. The process of manufacturing solid, dry and stable invertase preparations, which consists of treating pressed yeast for 10 to 15 minutes with ethers mixable with water of the group consisting of m-dioxane, p-dioxane, dioxalane, dimethyl dioxane and mixtures of dioxane with ethyl ether; said ethers being applied in an amount corresponding to five to six times the weight of the yeast, thereby avoiding any autolysis of the yeast; removing said ethers, together with the water absorbed by the same, drying the residue and pulverizing the same.

2,406,625
AIRPLANE
Thomas W. Oglesby, Peru, Ind.
Application December 10, 1941, Serial No. 422,428
31 Claims. (Cl. 244—13)



1. In an airplane, a central elongated hollow body providing a fuselage, wings of hollow construction joined at their inner ends to said body and projecting laterally outwardly therefrom, hollow reinforcing members connecting the outer ends of said wings, said hollow body, wings and reinforcing members defining communicating ducts for circulating air to provide a cooling or heat transfer system for transferring heat in the body section through the wings and reinforcing members.

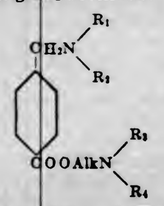
2,406,626
YARN PRODUCING APPARATUS
Mario Ottomano, Union City, N. J., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application April 9, 1943, Serial No. 482,383
8 Claims. (Cl. 19—129)



1. In combination with a faller bar defined by parallel side walls and an upper surface from which project a row of needles and means for securing a blade in engagement with a group of adjacent needles of said row for effecting a cutting action upon the upper projection of the faller bar and means for locking said blade against vertical as well as lateral movement relatively to said needles, said means comprising a blade holder and means for locking the blade to the holder and means for locking the holder to the faller bar.

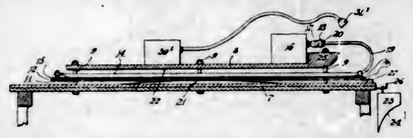
2,406,627
ALKAMINE DERIVATIVES OF PARA AMINOMETHYL BENZOIC ACID
Robert P. Parker, Somerville, N. J., and Arthur J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 16, 1942, Serial No. 439,236
6 Claims. (Cl. 260—472)

1. Amino alcohol esters of a p-aminomethylbenzoic acid having the formula:



in which Alk is alkylene, R_1 and R_2 and R_3 and R_4 are members of the group consisting of lower aliphatic hydrocarbon radicals and a portion of a saturated heterocyclic ring.

2,406,628
APPARATUS FOR FORMING SKIS, ETC.
Elester R. Patchen, Lakeville, Conn., assignor to Local Industries, Incorporated, Lakeville, Conn., a corporation of Connecticut
Application January 20, 1944, Serial No. 518,965
6 Claims. (Cl. 144—281)



1. In a forming machine, a pressure and heating unit comprising a table and a fixed abutment spaced apart therefrom, a flexible hose section and a flexible electric heating plate supported by said table beneath said abutment, a discrete toe block having a concave forming surface adapted to be inserted on the table beneath one end of the heating plate, a source of compressed air connected to said hose for expanding the hose and compressing material inserted adjacent said heating plate, means for passing an electric current through said plate and heating the material while it is being compressed by said hose and means for reducing the pressure in the hose below atmospheric pressure so as to collapse the hose and relieve the material and permit it to be withdrawn.

2,406,629
REFRIGERATING APPARATUS
Carl F. Petkwitz, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 7, 1944, Serial No. 557,567
2 Claims. (Cl. 20—35)

1. A door for a refrigerator cabinet comprising, an inner wall forming member and an outer wall forming member providing a chamber therebetween, insulating material within said chamber, said outer member having a flange portion thereon extending inwardly from sides of the door in spaced relation to the front thereof, said inner member having a flange portion thereon overlapping and abutting the flange portion on said outer member, means for securing the overlapping and abutting flange portions in direct contact with one another, a seal element for said door including a resilient sealing portion adapted to engage the cabinet and an integral mounting portion abutting said flange portion on said outer member, said seal element having a hook-like part formed in the mounting portion thereof, said flange portion on said inner wall forming member having an offset peripheral part substantially conforming to and fitting over said hook-like part of said seal element, and said securing means engaging said members to clamp said seal element mounting portion therebetween whereby said seal element is locked to the door.

2,406,630
PRODUCTION OF CYCLO-OLEFINIC HYDROCARBONS AND AROMATIC HYDROCARBONS
Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 15, 1944, Serial No. 568,390
8 Claims. (Cl. 260—666)

1. A process for producing a cyclo-olefinic hydrocarbon which comprises reacting a glycol having at least 4 carbon atoms per molecule and a mono-olefinic hydrocarbon in the presence of an acid-acting catalyst at a sufficient temperature and pressure that condensation of said mono-olefinic hydrocarbon and glycol is the principal reaction of the process.

2,406,631
PRODUCTION OF CYCLO-OLEFINIC HYDROCARBONS AND AROMATIC HYDROCARBONS
Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 15, 1944, Serial No. 568,391
8 Claims. (Cl. 260—666)

1. A process for producing a cyclo-olefinic hydrocarbon which comprises reacting a glycol having at least 4 carbon atoms per molecule and a monohydric alcohol at a sufficient temperature and pressure that condensation of said glycol and monohydric alcohol is the principal reaction of the process.

2,406,632
PRODUCTION OF CYCLO-OLEFINIC HYDROCARBONS AND AROMATIC HYDROCARBONS
Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 15, 1944, Serial No. 568,392
6 Claims. (Cl. 260—666)

1. A process for producing a cyclo-olefinic hydrocarbon which comprises reacting a diolefinic hydrocarbon having at least 4 carbon atoms per molecule and a monohydric alcohol at a sufficient temperature and pressure that condensation of said diolefinic hydrocarbon and monohydric alcohol is the principal reaction of the process.

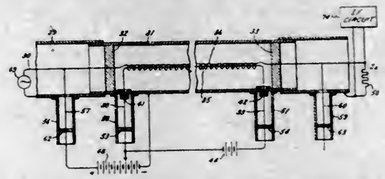
2,406,633
ISOMERIZATION OF SATURATED HYDROCARBONS
Herman Pines and Richard C. Wackher, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 19, 1943, Serial No. 510,912
12 Claims. (Cl. 260—683.5)

2. An isomerization process which comprises contacting a normally liquid paraffin hydrocarbon and an ether having the formula R—O—R' wherein R is an aryl group and R' is a hydrocarbon radical selected from the class consisting of alkyl, cycloalkyl, and aryl groups with a Friedel-Crafts type isomerizing catalyst under isomerizing conditions.

2,406,634
ISOMERIZATION OF SATURATED HYDROCARBONS
Herman Pines and Richard C. Wackher, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 19, 1943, Serial No. 510,914
14 Claims. (Cl. 260—683.5)

2. An isomerization process which comprises contacting a normally liquid paraffin hydrocarbon with a Friedel-Crafts type isomerizing catalyst under isomerizing conditions and in the presence of an aromatic hydrocarbon containing at least two monocyclic aryl nuclei.

2,406,635
METHOD FOR AMPLIFYING HIGH-FREQUENCY SIGNALS
Simon Ramo, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 27, 1942, Serial No. 436,444
4 Claims. (Cl. 250—20)

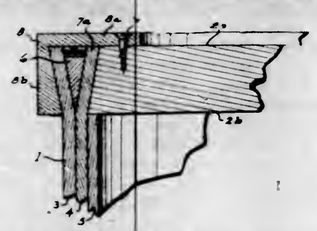


1. In combination, a source of signal-bearing waves, a system for propagating waves derived from said source, said system including a pair of concentric transmission lines each including an outer tubular conductor and an inner conductor interconnected by an electronic discharge device incorporated in the said propagating system for giving it a negative attenuation characteristic whereby waves propagated by the system are amplified in intensity, said electronic discharge device including dielectric means for defining an evacuated region containing an electric discharge path, and means for terminating the system in such fashion as to minimize reflection of said signal-bearing waves, said last-named means including reactance components associated with said electronic discharge device which neutralize the reflection incident to the presence of said last-mentioned means and which cause said device to be self-oscillatory at a frequency different from the frequency of said signal-bearing waves, whereby the output of said device includes side-band components representing the sum and difference of said frequencies.

2,406,636
DETACHABLE COVER FOR CONTAINERS
Orval Rasor, Portland, Oreg.
Application May 24, 1944, Serial No. 537,113
7 Claims. (Cl. 217—79)

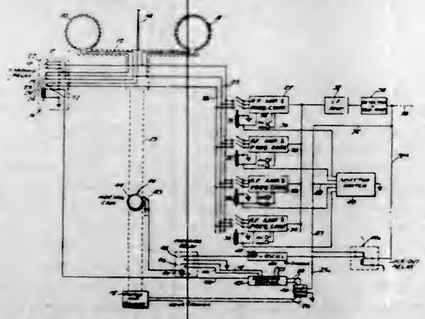
1. A fastening device for a tubular wooden container having a removable end member and a cylindrical side, an annular end ring having an inwardly extending flange and a lateral flange joined therewith, an annular wedge member adapted to split one end of said cylindrical side and to be seated therein, the periphery of said end member and the inner surface of the lateral flange of the end ring diverging toward the inwardly extending flange of the end ring, whereby said wedge member may first be alined with the

end of the cylindrical side with the end ring in place, overlying said wedge, side and end members of the container and bearing on the wedge, and said wedge may be driven in place to lock the end member of said container and the side



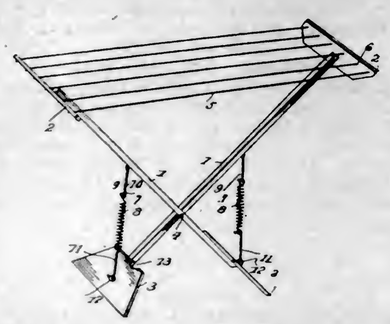
member thereof by splitting the end of said side member and forcing the split portions thereof laterally against the diverging portions of the lateral flange of the end ring and the end member of the container, respectively.

2,406,637
RADIO DIRECTION FINDER
Peter C. Sandretto, Chicago, and Elmer P. Buckthal, Brookfield, Ill., assignors to United Air Lines, Inc., a corporation of Delaware
Application January 12, 1942, Serial No. 426,372
9 Claims. (Cl. 250—11)



1. In a radio direction finder system having an antenna station and a remotely located control station connected by a transmission line, the combination of rotatable directional antenna means at said antenna station, radio receiver means at said antenna station including a plurality of channels respectively tuned to receive signals of different preselected frequencies picked up by said antenna means, means at said control station for selectively imposing on said transmission line control signals of a predetermined frequency having preselected characteristics, means at said antenna station responsive to said control signals for selectively connecting between said transmission line and said antenna means a selected one of said channels of said receiver means corresponding to the selected signal characteristic, heterodyning means associated with said receiver means for imposing on said transmission line an output beat note of substantially constant frequency regardless of the selected receiver channel tuning, recording means at said control station energizable to produce a record trace reflecting the intensity of the energizing signal, and filter means between said recording means and said transmission line for rendering said recording means responsive only to signals of said constant beat frequency, whereby a bearing trace of the received signal energy may be produced from any of said differently tuned receiver channels.

2,406,638
CLOTHES DRIER
Louis Schissel, Flushing, N. Y.
Application May 1, 1944, Serial No. 533,561
1 Claim. (Cl. 211—178)



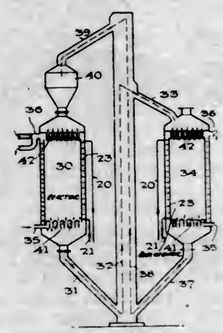
A clothes drier including upper strips, bars secured to said strips and depending therefrom in crossed relation, a pivot uniting the bars, supporting feet on the lower ends of the bars, article supporting strands connecting the upper strips, springs connected to the bars above their pivotal point and removably connected to the supporting feet, the upper edge of each foot being formed with a notch to engage a support to maintain the clothes drier in operative inverted position, the notch on the upper edge of each foot being offset from the bar connecting that foot, the respective notches being on relatively opposite sides of the respective bars and combining to provide an inverted support for the drier from an appropriate fixture to maintain the drier in a balanced relation on said fixture.

2,406,639
CATALYTIC REACTIONS
Louis Schmerling and Vladimir N. Ipatieff, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 30, 1943, Serial No. 496,793
18 Claims. (Cl. 260—683.4)

1. A process for the conversion of hydrocarbons which comprises reacting a hydrocarbon in the presence of an alkoxyaluminum halide catalyst prepared by interacting approximately equimolar proportions of a saturated aliphatic alcohol and an aluminum halide selected from the group consisting of aluminum chloride and aluminum bromide and controlling the reaction of said alcohol with said aluminum halide to evolve approximately one mol of hydrogen halide per mol of aluminum halide reacted.

2,406,640
CONVERSION OF HYDROCARBONS AT HIGH RATES OF HEAT INPUT
Paul Siecke, Mount Lebanon Township, Allegheny County, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 5, 1944, Serial No. 517,136
3 Claims. (Cl. 196—52)

3. The method of cracking hydrocarbons at high rates of heat input while avoiding excessive coke formation, by reason of a low temperature differential between the hydrocarbon and heating medium, and thereby promoting depth of conversion in short reaction time, which comprises passing the hydrocarbon through a thermally insulated reaction chamber in counterflow to a material of high electrical conductivity, heating said material by the induction of electromagnetic cur-



rents therein, transferring heat from the material to the hydrocarbon by conduction to effect endothermic reaction and separating the hydrocarbon reaction products from commingled conducting material.

2,406,641
APPARATUS FOR PRODUCING SYNTHETIC YARN
Albert J. Signoret, New York, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application December 28, 1942, Serial No. 470,350
3 Claims. (Cl. 19—129)



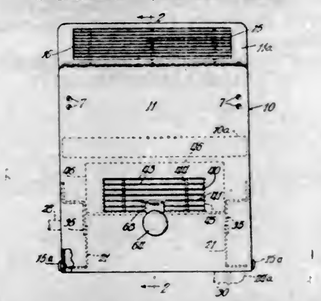
1. A separable attachment to a gill box faller bar comprised conventionally of a base and needles for detachably securing a blade to such faller bar with its cutting edge in predetermined relation to its needles, said attachment being made of a sheet material and comprising a wall of a width sufficient to span a group of adjacent needles and of a height less than the length of the needles and flanges bent from the opposite side edges of said wall to extend inwardly toward each other and parallel with and normally spaced from said wall for approximately the diameter of the needles, said wall and flanges defining an expansible unobstructed channel of uniform cross-section and entirely open at the top and bottom, whereby the attachment can be engaged over a group of needles through its open bottom with the group of needles encompassed by the wall and flanges, with the pointed ends of the needles projecting through and beyond the open top of said attachment so that a flat blade can be entered between said wall and the group of needles engaged thereby and frictionally held therebetween with its cutting edge located above the top of the attachment and below the pointed end of the needles.

2,406,642
YARN PRODUCTION
Albert J. Signoret, New York, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application February 12, 1943, Serial No. 475,617
8 Claims. (Cl. 19—129)



8. In a gilling apparatus the combination with a gill box faller bar having conventional needles of a blade holding member and means for detachably affixing the member to the faller bar, to reciprocate vertically with the faller bar and means to move said member longitudinally of the faller bar as the faller bar is reciprocated vertically.

2,406,643
CONVECTION HEATER
Benjamin Spieth, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application September 2, 1943, Serial No. 500,877
2 Claims. (Cl. 257—136)

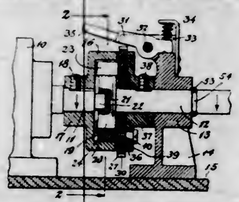


1. A convection heater comprising in combination a cabinet having an air inlet opening, an air outlet opening and an auxiliary air inlet intermediate the air inlet and air outlet openings and spaced from said air inlet opening, oppositely disposed bracket members rigidly secured to the side walls of the cabinet and formed with inwardly spaced depending portions, a heat transfer element having fins thereon, the endmost ones of which are secured to said depending portions of the bracket members and together with said bracket members divide the lower part of the cabinet into a heating chamber and two end chambers, the heat transfer element having heating tubes in said heating chamber and headers in said end chambers, and a pivotally mounted damper extending between said inwardly spaced depending bracket portions and arranged in one position to close the auxiliary air inlet, and arranged in another position to close the passageway between the depending portions of the bracket members, said damper having means for adjusting it to any position between its limits of movement.

2,406,644
REVERSIBLE RELEASABLE CLUTCH
Louis Spraragen, Bridgeport, Conn., assignor to Automatic Locking Devices Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application June 14, 1943, Serial No. 490,768
18 Claims. (Cl. 192—17)

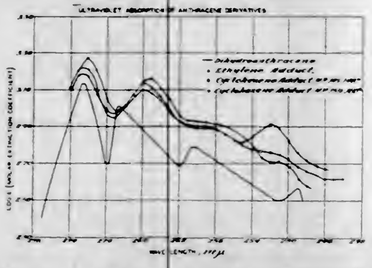
1. A clutch having a driving member and a driven member, interponents floatingly carried

between them, resilient means for moving said interponents to position to become wedged between the driving and driven members and simultaneously couple them for movement as one in either direction, a control member rotatable with the driven member for moving said interponents



to inoperative position against the force of said resilient means to uncouple said members for independent rotation of the driving member; and means for causing relative movement of the control member and the driven member for rendering said interponents inoperative and uncoupling the driving and driven members.

2,406,645
SYNTHESIS OF AROMATIC COMPOUNDS
Charles L. Thomas, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 28, 1944, Serial No. 556,263
14 Claims. (Cl. 260—671)



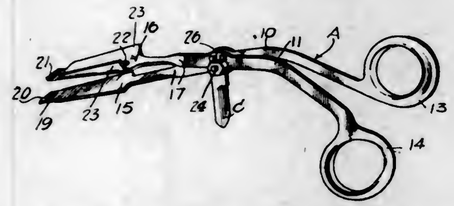
1. A process which comprises thermally, noncatalytically reacting an olefinic hydrocarbon with a polynuclear aromatic compound containing a conjugated diene structure and capable of forming a bridge between the carbon atoms in the 1,4 positions of the diene part of the molecule.

14. The compound 9,10-cyclohexano-9,10-dihydroanthracene.

2,406,646
MANUFACTURE OF CATALYSTS
Glenn M. Webb and Marvin A. Smith, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 20, 1942, Serial No. 451,658
7 Claims. (Cl. 252—254)

1. A process for producing a catalytic composite of alumina and at least one other inorganic catalyst for hydrocarbon conversion reactions, which comprises adding a volatilizable ammonium salt to a solution of an aluminum salt and a compound which is decomposable to an inorganic oxide by heating, the composition of the resultant ammonium salt-containing solution being such as to preclude precipitation of the aluminum salt and said compound, evaporating the solvent from the solution, and heating the remaining residue sufficiently to volatilize the ammonium salt and to decompose the aluminum salt to alumina and said compound to said inorganic oxide.

2,406,647
CAPONIZING INSTRUMENT
Ion L. Weber and Mervin H. Weber, Waterloo, Ontario, Canada
Application August 10, 1944, Serial No. 548,868
5 Claims. (Cl. 128—305)



1. A caponizing instrument comprising a pair of elements pivotally connected together intermediate their ends and formed with handle portions at one end and jaws at the opposite ends, said jaws being provided with cooperating gripping portions for gripping parts of a bird on which an operation is being performed, the upper jaw being tapered and channelled rearwardly of its gripping portion to form a gradually widening spreader portion and raised side flanges capable of spreading an incision in the bird and retaining the edges of said incision spread apart while employing the gripping portions within the incision.

2,406,648
PROCESS OF PREPARING WATER-SOLUBLE ALKYL LACTATES
Samuel M. Weisberg, Edwin G. Stimpson, and Joseph Greenspan, Baltimore, Md., and Donald F. Othmer, Brooklyn, N. Y., assignors to Sealtest, Inc., Baltimore, Md., a corporation of Maryland
Application December 8, 1942, Serial No. 468,184
6 Claims. (Cl. 260—484)

1. A method of manufacturing water-soluble esters of lactice acid in substantially anhydrous form, comprising esterifying a mixture of a salt of lactic acid of the group consisting of alkali metal and alkaline earth metal lactates with an excess of an alkyl alcohol of the class consisting of methyl, ethyl and isopropyl alcohols in the presence of a strong mineral acid, maintaining the pH value between about 0.7 and 1.4 during esterification, substantially neutralizing the mixture after completion of esterification, flash-distilling water, alcohol and ester from said mixture by spraying the mixture into contact with oil at a temperature above the boiling point of water and less than the decomposition temperature of the ester, distilling the alcohol from the water and the ester, mixing the ester and the water with an organic compound forming an azeotropic mixture with water having a boiling point of less than 100° C. and distilling the azeotropic mixture to separate the water from the ester.

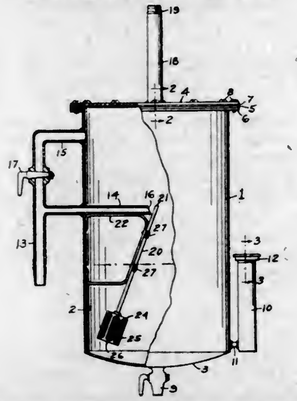
2,406,649
LIQUID COATING COMPOSITION AND PROCESS OF MAKING SAME
George Witty, Long Island City, N. Y.
No Drawing. Application November 30, 1944, Serial No. 566,031
1 Claim. (Cl. 260—15)

A liquid coating composition comprising 100 parts cellulose acetate, 50 parts toluene sulfonamide-formaldehyde resin, 20 parts triphenyl phosphate and 10 parts acetanilide dissolved in solvent mixture consisting of 300 parts acetone, 150 parts ethyl alcohol, 50 parts ethyl lactate and 20 parts triethyl citrate, all the parts are by weight.

2,406,650
METHOD FOR THE EXTRACTION OF CASEIN FROM SEEDS
Robert Louis Wormell, Coventry, England, assignor to Courtaulds Limited, London, England, a British company
No Drawing. Application December 30, 1944, Serial No. 570,792. In Great Britain March 16, 1944
5 Claims. (Cl. 260—112)

1. A process for the extraction of alcohol-insoluble casein from seeds containing the same which comprises the treatment of the said seeds with a solution containing an alkaline reagent, water and acetone, said acetone being less than 40 per cent by volume of said solution and then separating the solution from the undissolved residue.

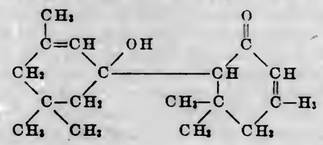
2,406,651
DEVICE FOR LUBRICATING MONOTYPE KEYBOARDS
Leslie G. Bakal, Richmond, Va.
Application April 27, 1945, Serial No. 590,608
6 Claims. (Cl. 184—55)



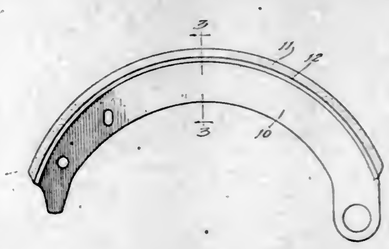
1. A cleaner and atomizing oiler for Monotype keyboards, comprising a container for oil, a filler and oil level measuring tube at the side of the container, an air intake conduit at the other side of the container, spaced branches from the conduit into the container, a valve in the conduit between the branches, a screened atomizing tube in the oil of the container and associated with one of the branches, a cover on the container, and an outlet conduit on the cover.

2,406,652
KETOLS FROM ISOPHORONES AND HOMOLOGUES THEREOF
Seaver A. Ballard, Berkeley, and Vernon E. Haury, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 28, 1941, Serial No. 390,744
3 Claims. (Cl. 260—586)

1. Diisophorone having the general formula:



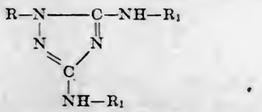
2,406,653
BONDED FRICTION ASSEMBLY
Clyde S. Batchelor, Nichols, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application June 10, 1944, Serial No. 539,657
9 Claims. (Cl. 188—234)



1. A friction assembly comprising a friction element, a metallic supporting element therefor and an intermediate bonding element comprising a network of cellulose fibres having a thickness of from about .001 to about .005 inch permeated with a cured resin.

2,406,654
ACYLACETO GUANAZOLS
Abraham Bavley, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 12, 1943, Serial No. 490,632
5 Claims. (Cl. 260—308)

1. An acylacetamino-1,2,4-triazole of the general formula:

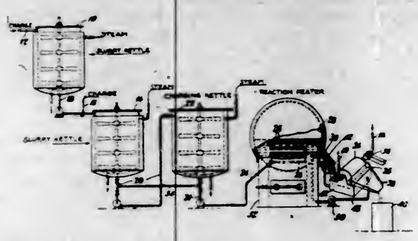


wherein R is selected from the group consisting of aralkyl and aryl radicals, R_1 is selected from the group consisting of H and the acylaceto group $—COCH_2COR_2$ wherein R_2 is selected from the group consisting of alkyl, cycloalkyl, aralkyl and aryl radicals, R_1 being at least once the aforesaid acylaceto group, said compounds being free from phenolic hydroxyl groups.

2,406,655
PROCESS FOR MANUFACTURING LITHIUM BASE GREASES
Alfred R. Bax, Laurel Springs, Harry F. Kielhorn, Oaklyn, and William E. Forney, Merchantville, N. J., assignors to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application December 21, 1943, Serial No. 515,100
11 Claims. (Cl. 252—36)

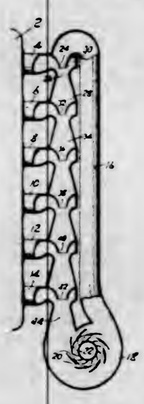
9. The method of manufacturing a stable plastic grease which comprises forming a slurry of metal soaps including lithium soap and a lubricating oil stock in the desired proportions for making a grease, introducing the slurry into a long heating coil of small diameter and forcing the slurry therethrough at a rate adapted to give a thorough working of the slurry while it is simultaneously heated and raised in temperature to the desired final temperature, heating the slurry to a final temperature adapted to produce

a stable grease, and within a few minutes after it has reached such final temperature quickly



chilling the grease mixture in thin layers to a low temperature of approximately 100° F. or lower.

2,406,656
EXHAUST ENERGY CONVERTING MEANS FOR INTERNAL-COMBUSTION ENGINES
Rudolph Birmann, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia, a corporation of the United States of America
Application April 4, 1939, Serial No. 265,920
4 Claims. (Cl. 60—13)



3. In combination, a multicylinder internal combustion engine having exhaust passages from the cylinders thereof, a turbine having a rotor, a nozzle from which exhaust gases pass in the form of a high velocity jet, one of said exhaust passages leading its exhaust gases directly to the region about said high velocity jet and entirely beyond the outlet of said nozzle so that an ejector action occurs to reduce the pressure in said exhaust passage, a diffuser passage into which said high velocity jet discharges for substantial conversion of its kinetic energy and that of gas from said exhaust passage into pressure energy, a passage into which said diffuser passage discharges its gases with pressure fluctuations substantially damped, and nozzles for converting pressure energy of the gases from the last mentioned passage into kinetic energy and for directing them to said turbine rotor at high velocity to drive the same.

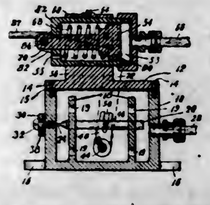
2,406,657
PLASTICIZERS
William P. Bitler, Haverstraw, and Leonard Nicholl, Nyack, N. Y., assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., a corporation of New York
No Drawing. Application November 19, 1942, Serial No. 466,224
5 Claims. (Cl. 260—345)

3. Process for the preparation of 3-acetoxymethylene, 3.6 endoxohexahydrophthalic anhydride having a melting point of 129–130° C., including reducing the condensation product of furfuryl acetate and maleic anhydride with hydrogen in non-reactive solution in the presence of a palladium-carbon catalyst.

2,406,658
COATINGS FOR CELLULOSE ACETATE PLASTICS
Charles Bogin, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application October 23, 1943, Serial No. 507,459
6 Claims. (Cl. 117—144)

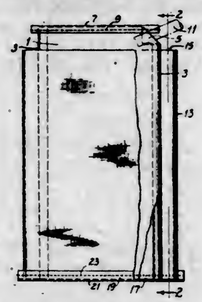
1. A method for coating cellulose acetate plastics plasticized with plasticizers having high affinity for nitrocellulose, cellulose acetate, and cellulose ethers to produce a fim thereon which will not lift during the application thereof and which will not soften on aging at moderately high temperatures in a humid atmosphere, which comprises applying to the surface of said plastic a coating composition comprising cellulose acetate butyrate having an acetyl content of between about 28 and about 33 per cent, and a butyryl content of between about 14 and about 20 per cent, dissolved in a solvent mixture consisting essentially of a major portion of a hydrocarbon diluent and a minor proportion of a lower nitroalkane and an aliphatic alcohol.

2,406,659
MECHANISM FOR PRESSURE DISCHARGE OF STREAMS OF LIQUID
Malcolm B. Boyce, Haverhill, Mass.
Application October 31, 1944, Serial No. 561,314
7 Claims. (Cl. 299—59)



1. Mechanism for pressure discharge of liquid, comprising a chamber having a plurality of orifices in a wall thereof, a plurality of pins within the chamber and interconnected for movement axially toward and from said orifices in unison, a rock shaft extending into said chamber, connections between the rock shaft and the pins whereby rotary movement of the rock shaft effects axial movement of said pins, a cylinder with spring backed piston therein adjacent to said chamber, connections between said piston and said rock shaft whereby movement of said piston in direction opposed by said spring rocks said rock shaft in direction to project said pins through said orifices and movement of the piston in direction urged by said spring rocks said rock shaft in direction to retract the pins from said orifices, means for supplying liquid under pressure to said chamber, and means for intermittently applying force to said piston to move it in direction opposed by said spring.

2,406,660
BAG
Charles V. Brady, Webster Groves, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application January 24, 1944, Serial No. 519,566
1 Claim. (Cl. 229—55)



A unitary article of manufacture consisting in a bag for packaging comprising an inner longitudinal flat sleeve which is longitudinally gusseted at its edges, and an outer longitudinal flat cover, each being of tubular form, certain ends of said sleeve and cover being adjacent one another, a common sewed seam closing both of said adjacent ends, the width of the flat cover being substantially greater than that of the flat gusseted sleeve with the latter being centered in the former by said seam, the opposite end of said sleeve extending substantially beyond the opposite end of said cover, the sleeve being connected to the cover only at said seam and free of any longitudinal attachment thereto, the perimeters of the sleeve and the cover being related so that the sleeve when loaded and without stretching its material entirely fills out the cover and the latter when loaded forms substantially all of the girthwise support against radial forces of the bag contents.

2,406,661
BAG CLOSURE
Charles V. Brady, Webster Groves, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo.
Application May 15, 1944, Serial No. 535,640
2 Claims. (Cl. 24—30.5)



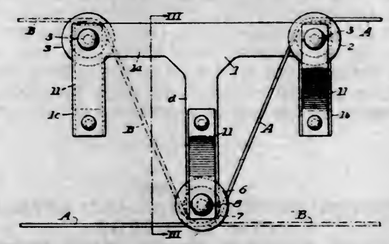
1. A closure tie comprising a length of bendable wire having eyes at its ends, said eyes, upon looping the wire around an article, being adapted to be adjoined for pulling and twisting, thereby constricting the resulting loop about the article, and an additional eye formed in the wire in such a location between said eyes that it will occupy a position on the loop which is at ninety degrees or more from the position on the loop of said adjoined eyes, whereby pulling and twisting the additional eye will take up inherent slack left under the previously pulled and twisted adjoined eyes.

2,406,662
VALVE MECHANISM
Paul J. Burchett, Glendale, Calif.
Application September 14, 1944, Serial No. 553,978
14 Claims. (Cl. 284—18)



13. A valve mechanism comprising a pair of scooplike clappers mounted on their edge faces for rocking movement relative to each other about fulcrums formed adjacent the larger ends of said clappers, the edge faces of said clappers intermediate said fulcrums and the smaller ends thereof being uniplanar and adapted to form a seal when in facewise engagement; resilient means acting against said clappers intermediate said fulcrums and the smaller ends of said clappers and normally holding said edge faces in sealing engagement, said resilient means permitting said clappers to be rocked about said fulcrums to move said edge faces out of engagement to form a passage between said clappers; a tubular member, said clappers being movably mounted within said tubular member for longitudinal movement therein; an annular shoulder formed within said member, said shoulder having an inner diameter less than the outer diameter of said clappers when mounted on their edge faces and restricting movement of said clappers in one direction longitudinally of said member, said shoulder when said clappers are engaging the same closing the annular passage between said clappers and said member; and means for connecting said tubular member into a fluid line.

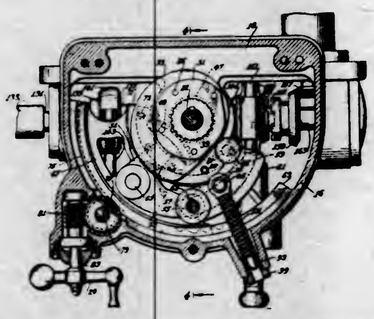
2,406,663
WIRE-TRANSPOSING DEVICE
Rogers Case, Orange, N. J.
Application April 6, 1944, Serial No. 529,805
4 Claims. (Cl. 174—33)



1. A transposition bracket for mounting on paired line wires comprising a rigid insulator-carrying base, and two pairs of wire-contacting and wire-training insulators mounted on said base with the insulators of each pair arranged symmetrically with respect to the transverse center line of the base to project oppositely from the plane of the base; the insulators of one said pair being widely spaced from the transverse center line of the bracket, and the insulators of the other pair being mounted in vertical alignment in the transverse center line of the bracket, so that with the bracket mounted by lateral insertion across the line to transpose the wires thereof the widely spaced pair of insulators lies in one reach of the line and the vertically aligned

pair lies in the other reach thereof with the two line wires transposed by the training of each on two insulators which project from the same side of the base.

2,406,664
INTERMITTENT FEED CHANGE MECHANISM
Secondo L. Casella, Brooklyn, N. Y., assignor to Morey Machinery Co., Inc., Astoria, Long Island, N. Y., a corporation of New York
Application November 13, 1942, Serial No. 465,814
10 Claims. (Cl. 74—124)



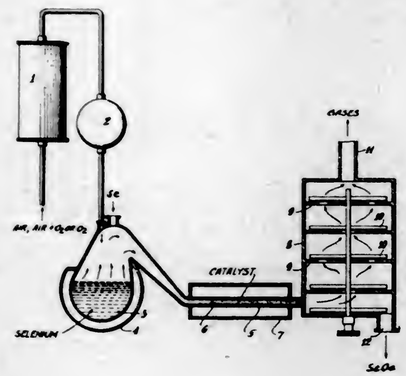
1. In feed change mechanism, in combination, a power shaft, a cam on the power shaft, a driven shaft, a gear loosely mounted on the driven shaft, one-way clutch means between the gear and the driven shaft, a toothed sector, means to support the toothed sector for movement in an arcuate path about the axis of the power shaft, a bell crank pivotally mounted on the toothed sector, a toothed segment on one arm of the bell crank and in mesh with the gear on the driven shaft, a shoe pivotally mounted on the end of the other arm of the bell crank, an arcuate member formed with a groove in its lower surface, means to pivotally mount one end of the arcuate member, means normally urging the other end of the arcuate member toward the cam, said groove receiving the shoe on the bell crank, and a roller pivotally mounted on the other end of said arcuate member for intermittent actuation by the cam whereby said arcuate member is oscillated about its pivot to move the shoe in an arcuate path about the axis of the bell crank pivot to oscillate the bell crank and thereby the driven shaft through an angle proportional to the arc of movement of the shoe.

2,406,665
COVERING INSTALLATION AND ATTACHING CLIP THEREFOR
Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 28, 1944, Serial No. 560,879
7 Claims. (Cl. 24—81)



1. A sheet metal clip adapted for securing a covering to an underlying support formed with a row of apertures, said clip comprising a thin strip of metal formed at one end with a shouldered tapered loop fastener portion adapted for snap-fastening engagement with an aperture wall of a support, the opposite end of said strip being formed with a locking tongue of less length than the depth of the loop portion and adapted to be inserted into the loop fastener portion of an adjacent previously positioned clip for engaging and expanding the sides of a previously positioned loop fastener portion against removal from a support.

2,406,666
PROCESS FOR MAKING SELENIUM DIOXIDE
Charles W. Clark and Eugene M. Elkin, Montreal, Quebec, Canada, assignors to Canadian Copper Refiners, Limited, Toronto, Ontario, Canada, a corporation of the Dominion of Canada
Application June 16, 1945, Serial No. 599,840
15 Claims. (Cl. 23—139)

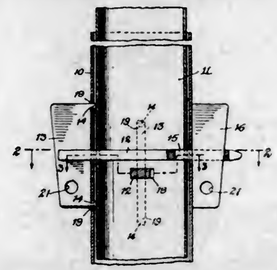


1. The process of making pure selenium dioxide, free of elemental selenium, which comprises effecting a gaseous phase oxidation of vaporized selenium with a gas containing at least a substantial proportion of oxygen in the presence of a solid catalyst selected from the group consisting of the oxides of copper, chromium and manganese.

2,406,667
MOTOR FUELS AND PROCESSES FOR MAKING SAME
Louis A. Clarke, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Original application July 23, 1942, Serial No. 452,061. Divided and this application April 27, 1943, Serial No. 484,765
3 Claims. (Cl. 44—80)

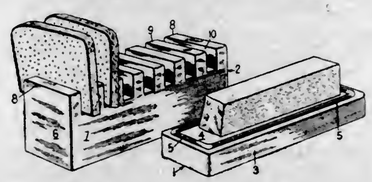
1. An aviation fuel blend adapted for use in supercharged engines and having a preferentially improved maximum power output at full throttle, without detonation, at super-rich air-fuel ratios richer than 11:1, as compared with lean air-fuel ratios leaner than 11:1, comprising a high antiknock rating base fuel containing a major proportion of isoparaffinic hydrocarbons and an antiknock additive, and a blending fuel comprising 2,3-dimethylbutane in major proportion by volume of the blending fuel, the latter being added in sufficient proportion to include at least 10%–30% by volume of 2,3-dimethylbutane in the base fuel and sufficient to convert the base fuel into the aforesaid aviation fuel blend.

2,406,668
TOWER OR MAST
Harold Cohen, Elizabeth, N. J.
Application September 8, 1944, Serial No. 553,136
4 Claims. (Cl. 287—103)



1. In a structure of the character described, structural elements arranged so that portions thereof are telescoped, said portions having registering holes therein, a cross-bar extending loosely in the holes in said portions transversely of said portions, and a device acting on said elements to rigidly secure said elements in the telescoped relation, and wherein the inner telescoped portion laterally impinges on said cross-bar.

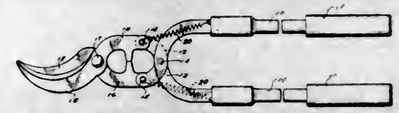
2,406,669
COMBINATION COVERED BUTTER DISH AND TOAST RACK
Theodore L. Daniels, Great Neck, N. Y., assignor to Pitman-Dreitzer & Co., Inc., New York, N. Y., a corporation of New York
Application April 2, 1945, Serial No. 586,141
2 Claims. (Cl. 65—59)



2. A covered butter dish comprising a lower base upon which a section of butter or the like is adapted to be disposed, said base being of substantially rectangular cross-section, an upper cover adapted to rest on the base, said cover being of rectangular cross-section having closed ends, a closed upper side and an open lower side so that it can be positioned over the butter on the base, means for preventing sliding of the cover relative to the base, a plurality of upstanding transversely extending toast spacer partitions formed on the top of the closed upper side of the cover, said spacer partitions being disposed in longitudinally spaced relationship, adjacent partitions forming transversely extending channels therebetween which are adapted to receive slices of bread or the like and to support and retain them in upright edgewise position.

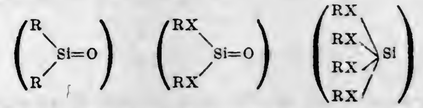
2,406,670
PRUNING SHEARS
Jose F. Delgado, Sanger, Calif.
Application October 27, 1944, Serial No. 560,594
1 Claim. (Cl. 30—252)

In a device of the character described, a pair of oppositely disposed handle members terminating in pivotally secured crossed extremities, a pair of blade members pivotally secured to each other, and having their inner ends crossed, said ends and said extremities being pivotally secured together, resilient means biasing said blades toward open position, said resilient means comprising coil springs extending from the pivotal connection of said ends and said extremities to intermediate points on opposite handle members.



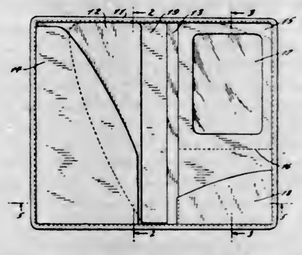
2,406,671
CUTTING OIL
Hyman Diamond, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 25, 1944, Serial No. 555,755
7 Claims. (Cl. 252—49.6)

1. An oleaginous composition capable of forming oil-in-water emulsions, which composition contains a foam-reducing amount of an associated compound selected from the group consisting of



wherein each R is a saturated, non-aromatic organic radical and X is selected from the group consisting of oxygen, sulfur, selenium and tellurium atoms, the total number of carbon atoms in the R's associated with each Si atom being at least 24.

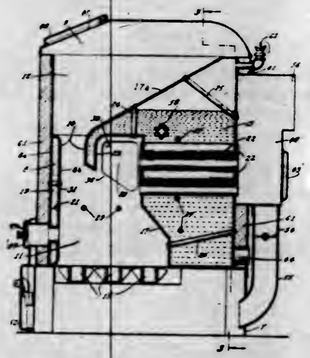
2,406,672
FLEXIBLE POCKET RECEPTACLE
Robert E. Dingman, Indiana, Pa.
Application July 21, 1944, Serial No. 545,932
2 Claims. (Cl. 150—36)



2. A flexible pocket receptacle comprising an outer wall member foldable vertically on a median line, a pocket wall member secured to said outer wall on one side of said median line to form an inwardly and partially upwardly open pocket and a flexible and resilient member, foldable coincidentally with said outer wall member, having its outer portion secured to said outer wall member on the other side of said median line to form an inwardly open pocket and having its inner unsecured portion extending across the space between the two pockets and into the first pocket, the said unsecured inner portion being longer at the top than at the bottom and its free inner edge convexly curving progressively downwardly

and inwardly from top to bottom toward its vertical line of fold from a point adjacent the outward termination of upwardly open portion of the first pocket to a point adjacent the inner lower corner of the first pocket.

2,406,673
BOILER
Andrew Drummond, St. George, Staten Island, N. Y., assignor to Lehigh Valley Coal Sales Company, New York, N. Y., a corporation of New Jersey
Application April 19, 1944, Serial No. 531,753
7 Claims. (Cl. 122—158)

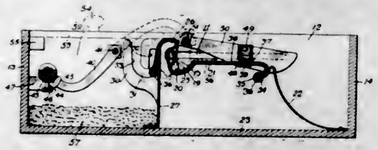


1. In a boiler of the class described, an outer wall structure; inner walls within said outer wall structure, one of said inner walls being provided with a reentrant portion forming with said outer walls a primary combustion chamber of substantially wedge-shaped form and a superposed wedge-shaped fuel storage hopper, said primary combustion chamber and said fuel storage hopper being connected for the passage of fuel therebetween at a restricted throat portion, said reentrant portion providing also a roof for said combustion chamber inclined at a substantial angle and being formed to provide a secondary combustion chamber, said secondary combustion chamber communicating with said primary combustion chamber whereby the products of the combustion may pass therebetween; means providing an additional supply of air to the fuel in said primary combustion chamber whereby incandescence thereof may be controlled; and flue means including tube means providing communication between said secondary combustion chamber and a chimney, said outer wall structure and said inner walls being adapted to retain water around at least portions of said combustion chambers.

2,406,674
MANUFACTURE OF VINYL n-BUTYL ETHER
William John Roy Evans, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application November 9, 1944, Serial No. 562,736. In Great Britain November 22, 1943
15 Claims. (Cl. 260—614)

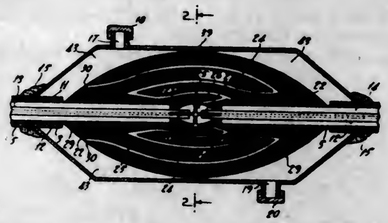
1. Process for the manufacture of vinyl n-butyl ether, which comprises bringing acetylene and n-butyl alcohol into contact with a potassium alkoxide in a medium composed at least mainly of an amine selected from the group consisting of secondary and tertiary aromatic amines, at a temperature of 150–200° C.

2,406,675
CIGARETTE ROLLING MACHINE
Ethel Cleveland Gallup, New York, N. Y.
Application May 4, 1944, Serial No. 534,016
6 Claims. (Cl. 131—51)



1. A cigarette making machine comprising a casing, an elevated platform in said casing, a platform traversing center roller and two end rollers, a finger affixed to each said end roller, a web firmly affixed to the front edge of said platform and slidably mounted at the rear portion of said platform, said web being engaged by said fingers, a transverse valley formed in said platform to receive a portion of said web and to engage said fingers, a die affixed to said platform, and an opening in said web registering with said die.

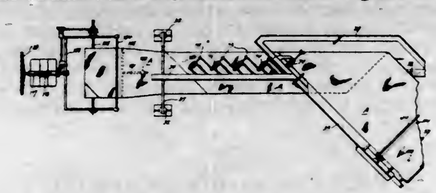
2,406,676
CABLE JOINT
Alfred Filadelfio Gambitta, Jersey City, N. J., assignor to Phelps Dodge Copper Products Corporation, Dover, Del., a corporation of Delaware
Application August 15, 1944, Serial No. 549,591
6 Claims. (Cl. 174—21)



1. A cable joint for joining together two lengths of single conductor cables having a central fluid supply channel in combination, a connector provided with a central longitudinal channel adapted for connection to the central fluid supply channel of the cable lengths to be spliced, and a plurality of radial channels in the body of the connector extending from the central longitudinal channel through the connector, a wrapped insulation over the connector provided with a plurality of channels formed between a plurality of strips spaced around the longitudinal axis of the joint during the wrapping of the insulation, said channels having a tortuous path extending from the center of the joint outward, each path lying substantially in a plane passing through the longitudinal axis of the joint, the said tortuous channels connecting the radial channels with the outside of the insulation.

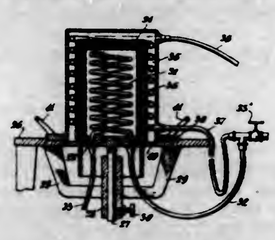
2,406,677
APPARATUS FOR MAKING SPIRAL WOUND TUBING
Percy Gardner, East Orange, N. J., and Ralph Kagan, Brooklyn, N. Y., assignors to Spiral Bagging Machine Corporation, New York, N. Y., a corporation of New York
Application February 10, 1943, Serial No. 475,372
21 Claims. (Cl. 112—63)

13. In an apparatus for forming tubes, a source of strip material supply, a mandrel, stitching means, and means positioned immediately to the rear of said stitching means for drawing the strip



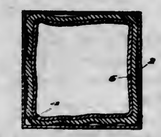
material past said stitching means and spirally on to said mandrel.

2,406,678
CONTAINER AND METHOD OF MAKING SAME
James D. Gerahty, New York, N. Y.
Application March 8, 1943, Serial No. 478,386
9 Claims. (Cl. 18—47.5)



1. The method of manufacturing a container consisting in providing a flexible bag-like fibered foundation closed at one end and having an open mouth, impregnating and coating both surfaces of said foundation with a thin coating of liquid resin adapted to be hardened and polymerized by the application of heat, subjecting a portion of treated foundation to the action of heat to harden and polymerize the resin and produce a rigid structure of substantially the same configuration as the fibered foundation to form the body of the container while retaining the balance of the foundation in flexible condition and subsequently subjecting a portion of said balance to the action of heat to harden and polymerize the resin and provide a closure formed entirely by a portion of the coated foundation per se.

2,406,679
FLUID TANK
Reid B. Gray, Dundalk, and Joseph C. De Weese, Parkville, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.
Application May 31, 1940, Serial No. 338,052
2 Claims. (Cl. 154—43.5)

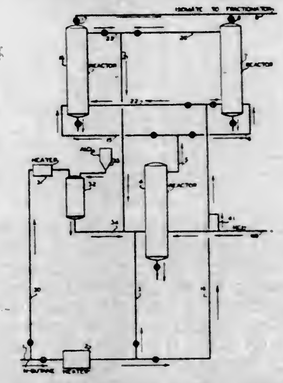


1. A self-sealing hydrocarbon fuel tank comprising a metal frame and a flexible cell within said frame, the wall of said cell being free of the frame and being formed of an inner layer of fabric impregnated with artificial rubber, a second layer of artificial rubber adhesively secured on the outside of said first layer, a third layer of crude rubber adhesively secured on the outside of said second layer, and a fourth layer of soft vulcanized rubber adhesively secured on the outside of said third layer.

2,406,680
PROCESS FOR CURING ADHESIVE BONDS IN LAMINATED STRUCTURES
Horace W. Hall, Newton, Mass.
No Drawing. Application March 8, 1943, Serial No. 478,476
2 Claims. (Cl. 154—133)

1. The process of making a laminated article and curing an adhesive bond within the interior of said article comprising applying an adhesive such as resin glue, that is a relatively good conductor of heat, to surfaces of and assembling and pressing together a plurality of laminations of ligno-cellulosic material of relatively poor heat conductivity, immersing the assembly, while pressed together, in a liquid, such as paraffin, under atmospheric pressure, said liquid being inert to said adhesive and sufficiently hot for the heat to cure the glue line of said assembly and the temperature of which exceeds 212 degrees F., and continuing the immersion until the glue line has been cured.

2,406,681
CATALYTIC CONVERSION OF HYDROCARBONS
Nelson B. Haskell, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 25, 1943, Serial No. 492,210
6 Claims. (Cl. 260—683.5)



1. In a continuous process for isomerizing normal butane the steps comprising passing a stream of normal butane in liquid phase through a primary reaction zone, subjecting said butane in liquid phase to contact therein with a liquid catalyst consisting essentially of aluminum chloride-hydrocarbon complex and aluminum chloride, said catalyst having a heat of hydrolysis of about 330 to 350 calories per gram of catalyst, effecting said contact in the presence of hydrogen halide at a predetermined temperature in the range of about 160 to 240° F. such that isomerization constitutes the principal reaction, passing a stream containing isomerized hydrocarbons and dissolved aluminum chloride from said primary zone through a secondary zone, subjecting the hydrocarbons in the secondary zone to contact in liquid phase with liquid aluminum chloride-hydrocarbon complex having a heat of hydrolysis of about 260 to 300 calories per gram of catalyst, effecting said secondary contact in the presence of hydrogen halide at a temperature in the aforesaid range such that extraction of aluminum chloride from the entering hydrocarbon stream occurs, removing

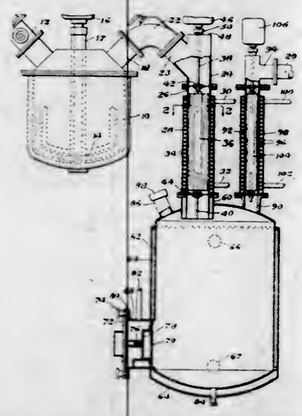
from said secondary reaction zone a stream of treated hydrocarbons substantially free from dissolved aluminum chloride, and producing as a result of said secondary contact a complex catalyst liquid enriched with aluminum chloride, separately subjecting another stream of normal butane to contact with said enriched complex under conditions such that isomerization constitutes the principal reaction and such that said enriched complex becomes denuded of aluminum chloride, and passing said separately treated hydrocarbons to said primary zone.

2,406,682

DESICCATION METHOD AND APPARATUS

Norman V. Hayes and William B. Humes, Boston, Mass., assignors to National Research Corporation, Boston, Mass., a corporation of Massachusetts

Application March 9, 1944, Serial No. 525,796
7 Claims. (Cl. 34—5)



1. In a process for the rapid desiccation of substances such as food products, chemical products, plasma and the like under sub-atmospheric free air pressure in an hermetically sealed duct system connected to a free air pressure reducing means, the steps which comprise condensing and freezing to solid form the vapor emanating from the substance upon a cold surface within said system maintained at a temperature below 0° C. and substantially below the temperature of the substance, removing solidified vapors in solid form from said surface, and subjecting the walls of said system in proximity to said removed solidified vapors within the system to controlled refrigeration such as to maintain their inner surface at a temperature within the range from a temperature 10° C. above to a temperature equal to the temperature of the condenser surface.

2,406,683

ELECTROPLATED DRIFT FREE SPRING

Franz R. Hensel, Earl I. Larsen, and Alfred M. Suggs, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application February 9, 1943, Serial No. 475,276
2 Claims. (Cl. 204—27)

1. The method of making a corrosion resistant spring having low drift characteristics which comprises electro-plating a layer of corrosion resistant material upon a spring metal body composed of a copper-beryllium alloy, said plating accelerating the drift characteristics of said spring metal, and heat treating the plated spring metal body at a temperature within the range of about 100° C. to about 350° C. but below the recrystallization temperature of the copper-beryllium spring alloy for a period of about 10 minutes to about 4 hours to thereby eliminate the accelerated drift characteristics of the spring metal.

2,406,684

POLYMERIZATION OF METHYL ISOPROPENYL KETONE

Josef W. Heyd, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application June 28, 1943, Serial No. 492,533
11 Claims. (Cl. 260—64)

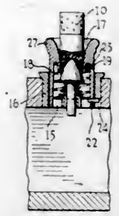
1. The method of making polymeric methyl isopropenyl ketone which comprises heating, at a temperature above 50° C. but below 95° C. and in the presence of hydrogen peroxide, a single-phase water solution, having a pH of from 6.0 to 7.5, of methyl isopropenyl ketone in the absence of an organic solvent.

2,406,685

EXTINGUISHER

Jay B. Hinson, Hartsdale, N. Y.

Continuation of application Serial No. 497,574, August 6, 1943. This application February 27, 1945, Serial No. 579,928
5 Claims. (Cl. 131—237)



1. In an extinguisher a support, a slidable hollow sleeve adapted to have a cigarette fit within it, a slidably mounted plug within the sleeve adapted to be struck by the tip of the cigarette and be pushed by it before the sleeve is pushed, springs on the support tending to return the sleeve and plug to close them together against passage of smoke, and a receptacle beneath the support.

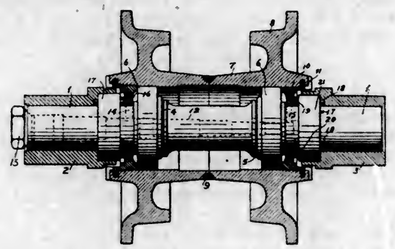
2,406,686

METHOD OF MAKING SEALING DEVICES

John W. Hobbs, Springfield, Ill., assignor to John W. Hobbs Corporation, Springfield, Ill., a corporation of Illinois

Original application September 5, 1942, Serial No. 457,397, now Patent No. 2,372,781, dated April 3, 1945. Divided and this application June 24, 1943, Serial No. 492,041
1 Claim. (Cl. 29—148)

The method of making a sealing device, including the steps of forming one of a pair of complemental substantial cylindrical members with circumferentially extending spaced lugs thereon, forming the second of said pair of members with the corresponding lugs projecting at an angle to the circumference, assembling said members in confronting relationship on an arbor with spring means therebetween, compressing said spring means by relative axial movement between said members until the circumferential lugs are behind the angular lugs, and bending



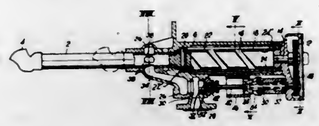
the angular lugs against the arbor as an anvil into interlocking relationship with said circumferential lugs to hold said members united against the action of said spring means.

2,406,687

SOOT BLOWER

Thure Gustaf Höglund and Gustav Emanuel Leijon, Stockholm, Sweden, assignors to Aktiebolaget Superior, Stockholm, Sweden, a corporation of Sweden

Application September 23, 1943, Serial No. 503,506
In Sweden October 13, 1942
6 Claims. (Cl. 15—104.055)



1. In a soot blower the combination with a casing for receiving a cleaning fluid, and a nozzle tube mounted on said casing and movable relatively thereto, of an operating mechanism for moving the nozzle tube axially between an inoperative and an operative position as well as for rotating said tube in the latter position, a valve comprising a seat and a valve member movable toward and away from said seat for the control of the supply of cleaning fluid to the nozzle tube and a motion transmitting connection between the operating mechanism and the valve, said connection including tongs for positive cooperation with the valve member means to move said tongs, and abutting means disposed in the path of motion of said tongs to be engaged thereby to open the tongs and release the valve member before the moment at which the valve is set to completely engage the valve seat.

2,406,688

PROCESS FOR PRODUCING OLEFINIC HYDROCARBONS

Aaron W. Horton, Thorofare, and John Kellett, III, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application December 3, 1942, Serial No. 467,784
4 Claims. (Cl. 260—683.3)

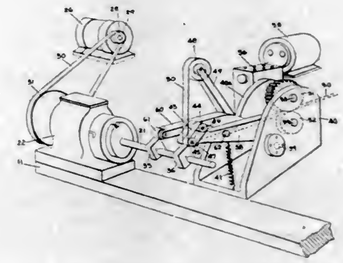
1. A process for manufacturing 2,3-dimethylbutenes, which includes passing vapors of neohexane at temperatures varying between about 800° F. and about 1200° F., over a catalyst comprising chromium oxide, at rates varying between about 400 volumes of vapor per volume of catalyst per hour and about 1500 volumes of vapor per volume of catalyst per hour.

2,406,689

CAM LAPPING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application January 27, 1945, Serial No. 574,847
7 Claims. (Cl. 51—154)



1. In a cam lapping machine having a base, a rotatable work support including a headstock and a footstock, a work supporting arbor for supporting a cam to be lapped, a movably mounted cam lapping arm on said base having a nose piece, a flexible abrasive lapping element on said arm surrounding said nose piece, a master cam on said arbor adjacent to the cam to be lapped, a movably mounted arm having a rotatable follower roller in engagement with said master cam, yieldable means to maintain said follower roller in engagement with said master cam, interconnections between said cam lapping arm and said follower whereby said follower roller imparts a controlled movement to said lapping arm and element, and manually operable means simultaneously to move said lapping arm and said follower arm to and from an operative position.

2,406,690

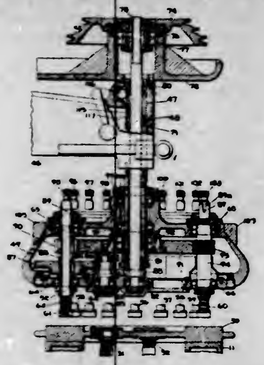
LAPPING MACHINE

Herbert S. Indge and George E. Hulbert, Westboro, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 9, 1944, Serial No. 557,753
6 Claims. (Cl. 51—119)

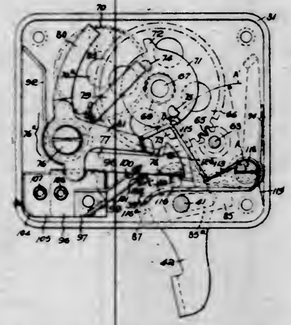
1. In a lapping machine having a base, a lapping wheel having a plane operative lapping face, means to impart a combined rotating and gyrating movement to said wheel, a vertically adjustable hollow spindle, a work head including a plurality of positively rotated work driving spindles which is rotatably supported at the lower end of said hollow spindle, a spindle driving mechanism including a drive shaft rotatably supported within said hollow spindle, gearing within said head connecting said drive shaft with each of said spindles simultaneously to rotate said spindles, a yieldable frictional work driving member on each of said spindles, and independent yieldable

means normally to maintain said spindles in frictional driving engagement with a work piece to



rotate the same while in lapping engagement with said lapping wheel at a predetermined pressure.

2,406,691
CAMERA AND LIGHT SYNCHRONIZER
Irving Jacobson, Hollywood, Calif., and Harold E. Smith, Rochester, N. Y., assignors to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Application May 6, 1944, Serial No. 534,396
16 Claims. (Cl. 67—29)

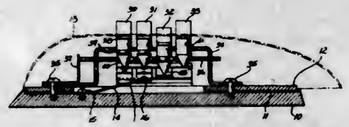


2. A photographic camera of the reflex type having a containing casing to be opened and entirely closed, having a focal-plane shutter curtain, having a mirror pivoted near the upper wall of the casing for swinging upward movement upon mirror release from focusing position into picture-taking position, and having means to release the shutter curtain by mirror movement to picture-taking position, said means to release the shutter curtain including a shutter release lever having a projecting pin-like formation, and an escapement lever having an arm adapted to be engaged by said formation and having another arm, and a shutter rewind gear and dog plate having stop pins to be engaged by said second arm and having dogs to be engaged by said first arm, electrically controlled photoflash means including a photoflash lamp and battery, and an electrical circuit at least partially within said casing and including within the casing a switch with two contacts to be closed to complete the circuit to said lamp, and means released for action by the commencement of the running-down movement of the said shutter rewind gear to close said contacts.

2,406,692
SOLID COMPLEX METAL AMMINE SALTS AND METHOD FOR THE PREPARATION THEREOF
Grinnell Jones and Walter Juda, Cambridge, Mass., assignors to Albi Chemical Corporation, New York, N. Y., a corporation of New York
No Drawing. Application June 17, 1942, Serial No. 447,470
5 Claims. (Cl. 167—16)

1. The process of forming solid compositions containing a complex metal salt, which process comprises mixing and agitating together a water-soluble solid complexogen metal salt, a non-aqueous source of ammine, and a second solid, water-soluble and substantially neutral salt which contains an anion capable of forming a water-insoluble compound with the metal of the said first salt, and continuing said agitation until the formation of a complex metal salt is substantially complete.

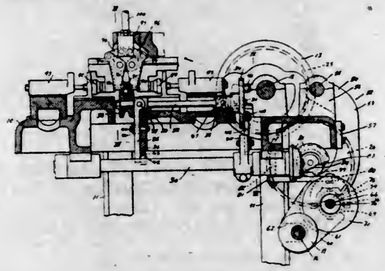
2,406,693
SWITCHING APPARATUS
Richard H. Jordan, Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc., a corporation of Ohio
Application September 15, 1943, Serial No. 502,481
11 Claims. (Cl. 200—138)



1. In an electrically heated device having a temperature responsive device, the improvement of switching apparatus for controlling the electrically heated device, said improvement comprising a plurality of switches adapted to open and close a circuit to the electrically heated device, each of said switches having a first movable member and a second movable member normally constrained to open position, said second movable members being actuated relative to the first movable members by the temperature responsive device, a push button for each switch for actuating respectively the first movable members of the switches toward the second movable members to close the circuit, a stop for each switch to limit respectively the travel of the first movable members when actuated by the push buttons, the stop for each switch determining the temperature at which the selected switch is operated, and selective locking means for each push button to selectively lock the push buttons in an actuated position.

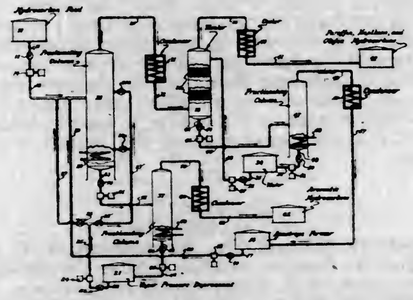
2,406,694
WELDING MACHINE
Raymond J. Kieffer, Tonawanda, N. Y., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y., a corporation of New York
Application December 16, 1944, Serial No. 568,545
5 Claims. (Cl. 59—32)

1. A welding machine, comprising a chain feeding wheel, a drive shaft, means for rotating said drive shaft at constant normal speed, means actuated by said drive shaft for intermittently rotating said wheel, an auxiliary drive shaft, and means connecting said drive shaft with said auxiliary shaft for increasing the speed of rotation of said auxiliary shaft above normal during the intermittent actuation of said wheel, including a two-part jack shaft in spaced relation with said drive shaft and said auxiliary shaft, gear means connecting said drive shaft with one part of said jack shaft, separate gear means connecting said auxiliary shaft with the other part of said jack shaft, clutch means for connecting the



parts of said jack shaft and for connecting said drive shaft with said auxiliary shaft, and means for operating said clutch means, whereby the auxiliary shaft may be rotated alternately at normal speed and at increased speed.

2,406,695
SEPARATION OF HYDROCARBONS BY DISTILLATION
George R. Lake, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application April 25, 1941, Serial No. 390,264
4 Claims. (Cl. 202—39.5)



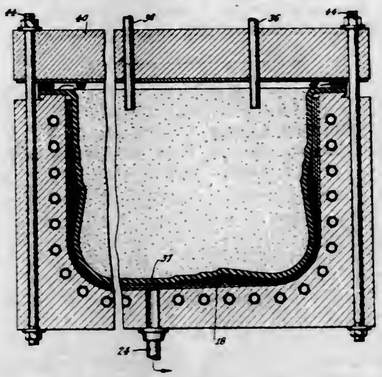
1. A process for the treatment of a narrow boiling range complex hydrocarbon fraction to separate at least one component from other components contained therein which ordinarily distill from the hydrocarbon fraction in the same temperature range as said component distills therefrom which comprises fractionally distilling said complex hydrocarbon fraction in the presence of a sufficient amount of an aliphatic ketone having a boiling point within 100° F. below and 40° F. above the average boiling point of said complex hydrocarbon fraction to vaporize at least one component of said complex hydrocarbon fraction together with said aliphatic ketone and in the presence of a phenolic compound having a boiling point of at least 100° F. above the average boiling point of said complex hydrocarbon fraction adapted to remain in the residue together with at least one component of said complex hydrocarbon fraction, thereby leaving at least one component of said complex hydrocarbon fraction in the residue together with said phenolic compound substantially completely separated from at least one component of said complex hydrocarbon fraction.

2,406,696
MILK BOTTLE ATTACHMENT
Roy W. Leslie, Detroit, Mich.
Application June 5, 1943, Serial No. 489,853
1 Claim. (Cl. 215—100)



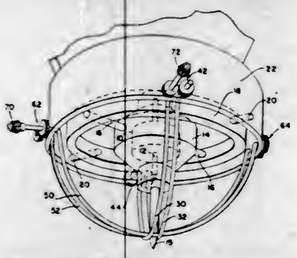
In a device of the character described, the combination of a C-shaped resilient member, having an outwardly and downwardly directed handle secured to one end thereof, the C-shaped member being tapered from the handle toward its free end, there being a depending fulcrum element on one edge of said C-shaped member at the point of its greatest thickness.

2,406,697
JOINT CONSTRUCTION
John D. Lincoln, Marion, Va., assignor to Virginia-Lincoln Corporation, Marion, Va., a corporation of Virginia
Application December 24, 1943, Serial No. 515,512
6 Claims. (Cl. 154—83)



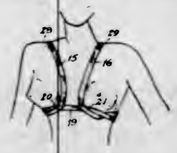
1. The herein described method of forming composite hollow structures which consists in tapering on at least one side the adjacent edges of spaced wall members of fibrous material, temporarily securing the end portions of a plurality of flexible superimposed fabric sections at least one of which comprises thermoplastic resinous material on a male form member whereof the outer surface is shaped to conform to the inner surface of the hollow structure, inserting the so-covered male form member with the fibrous and fabric sections in situ in a heated female form member whereof the inner surface has the desired outer configuration of the hollow structure to be formed, removing the male form member, lining the fibrous and fabric structure with a flexible blanket and applying heat and pressure to the blanket and thereby to the female form to cause the outer surface of the fabric structure to conform to the female form member and the fabric to soften and then polymerize to form a rigid composite structure.

2,406,698
CAGING MECHANISM
George Long, St. Louis Park, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application June 14, 1943, Serial No. 490,956
7 Claims. (Cl. 74—5)



5. In a caging device for gyros, means for mounting the gyro to swing about two axes at right angles to each other, the rotor of the gyro being mounted on a shaft, pairs of semicircular members mounted to swing from opposite sides of the axis of said shaft toward a normal central position of the gyro shaft so as to urge the gyro shaft toward the central position from any other position, and means for urging said semicircular members toward a common center, the pairs of semicircular members when in closed position lying substantially at right angles to each other and substantially at 45° from the axes of the mountings for the gyro, the axes about which the gyro is mounted to swing and the axes about which the semicircular members swing are located in substantially the same plane.

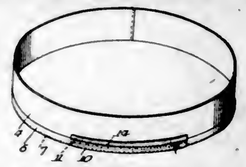
2,406,699
BUST SEPARATOR
Florence Lustig, New York, N. Y.
Application August 26, 1944, Serial No. 551,295
5 Claims. (Cl. 2—42)



3. In a device of the character described, a band encircling the back of the person and extending around to the front immediately below the breasts, the two ends of said band extending thence upwardly between the breasts, and around the shoulders and thence downwardly to the back of said band where they are affixed, and means for holding said band in position immediately below the breasts.

2,406,700
HAT SIZE REDUCER
Irving B. Miller, Chicago, Ill., assignor of one-half to Stefan Gross, and one-half to Herman J. Blackman, both of Chicago, Ill.
Application November 29, 1943, Serial No. 512,205
6 Claims. (Cl. 2—183)

1. In a hat, a sweat band, a hat size reducer between the sweat band and the body of the hat said hat size reducer comprising a flexible strip of substantial thickness having a longitudinally extending weakened line of fold, said weakened line comprising a line of physical separation of the strip into two separate abutting non-overlapping parts and a hinge connection between the parts, the lower part being secured to the hat and the upper part being free for folding and unfolding at said hinge, said hinge connection being a series of stitches securing the two strip parts together, whereby upon folding of the strip along its line of fold the strip remains folded and the net effective thickness of the strip is increased.

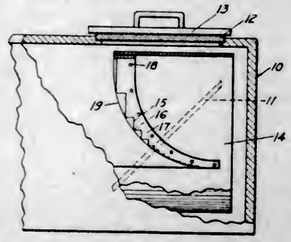


2,406,701
HAT SIZE REDUCER
Irving B. Miller, Chicago, Ill., assignor to Herman J. Blackman, Chicago, Ill.
Application February 14, 1945, Serial No. 577,744
4 Claims. (Cl. 2—183)



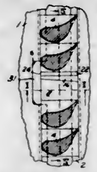
1. A hat size reducer comprising a unitary elongated flexible strip of substantial width and thickness, the strip being provided with a longitudinally extending groove intermediate its longitudinal edges, the groove tapering from its maximum depth to zero depth in a direction across the strip, the groove constituting a weakened zone in the strip to facilitate folding thereof along the deepest part of the groove, the strip having at least one cut extending entirely therethrough from one longitudinal edge thereof to the deepest part of the groove to permit folding of only a fractional part of the length of the strip.

2,406,702
SENSITOMETER
Herbert W. Morreall, Jr., Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application October 27, 1944, Serial No. 560,669
3 Claims. (Cl. 95—10)



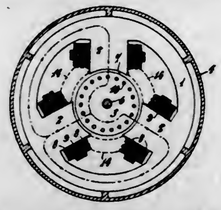
3. In a time scale sensitometer, an apertured member for permitting passage of light to a sensitized layer, the aperture in said member having one side thereof stepped in logarithmically increasing progression, and a detachable mask having a continuously and logarithmically curved edge aligning with points of the aperture steps, and connecting means by which the said mask is attached and detached thereby selectively to permit exposures of stepped or continuous type.

2,406,703
TURBINE BLADE LOCKING APPARATUS
Cecil H. Morris, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 8, 1944, Serial No. 539,315
10 Claims. (Cl. 253—77)



1. In a mounting for a row of turbine blades or other members including a pair of adjacent members having root portions spaced apart and presenting plane opposed surfaces, a packing means comprising a pair of elements positioned between the root portions of said adjacent members for initial relative movement both angularly and linearly with respect to an axis extending crosswise of said row, said pair of elements having oppositely facing plane surfaces opposing the plane surfaces presented by said root portions and having abutting complementary concave, convex surfaces extending in non-parallel relation with respect to said oppositely facing surfaces and in concentric relation with respect to said axis.

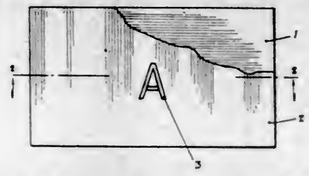
2,406,704
MULTIPHASE ALTERNATING CURRENT TRANSFORMER
Paul Alphonse Hubert Mossay, Benno Schwarz, and Edgar Barraclough, Norwich, England
Application October 28, 1942, Serial No. 463,640
In Great Britain November 4, 1941
6 Claims. (Cl. 175—356)



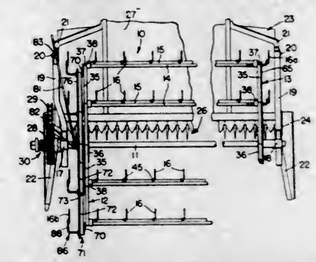
1. A multiphase transformer comprising a stationary annular outer yoke and an inner yoke both of magnetizable material and arranged in concentric relation, the said inner yoke embodying a rotatable element, primary and secondary windings associated with radial legs of magnetisable material provided on said outer yoke extending into close proximity to said rotary inner yoke, said radial legs providing radial magnetic paths closed by said yokes for the magnetic fluxes linked with said windings.

2,406,705
METHOD OF MARKING BODIES
Joseph Mrazek, Woodside, Long Island, N. Y.
Application September 30, 1944, Serial No. 556,673
3 Claims. (Cl. 18—61)

1. A method of making a marked body of film-forming material, which consists in casting a mass of a solution of said film-forming material against a casting layer, said casting layer being smooth and absorbent and consisting of solid particles which are connected by an adhesive which is inert to the solvent of said solution, said particles being also inert to said solvent, said casting layer having a marking which is at least partially absorbed in said casting layer, substantially all the ingredients of said marking being soluble in said solvent, maintaining said mass of solution in contact with said casting layer until sufficient of said marking has been dissolved in said solvent to form a duplicate thereof in said mass, and evaporating said solvent while said mass is maintained in contact with said casting layer until said mass has set into final form against said casting layer.

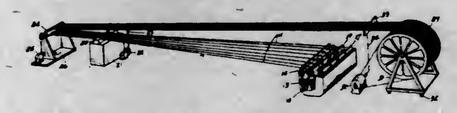


2,406,706
HARVESTER REEL
Alvin W. Oehler and Eric J. Johnson, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 22, 1944, Serial No. 541,573
13 Claims. (Cl. 56—226)



1. In a harvester reel comprising a supporting axle, a pair of laterally spaced spiders mounted thereon, a plurality of circumferentially spaced shafts rockably mounted between said spiders, bats fixed to said shafts, respectively, and rockable therewith, and laterally spaced crop engageable fingers fixed to each of said bats, the combination of means serving as extensions of said shafts outwardly of at least one of said spiders and shiftable axially relative to said shafts, means securing said extension means to said shafts in axially adjusted position, an arm mounted on each of said extension means and extending radially of the axis of the associated shaft substantially in the plane of the associated bat, and a crop engageable finger fixed to said arm and disposed in transverse alignment with said fingers on said associated bat.

2,406,707
PROCESS FOR MAKING FIBROUS BRISTLES
John Overbeke, Cleveland Heights, Ohio
Application February 3, 1942, Serial No. 429,405
3 Claims. (Cl. 117—4)



1. The process of impregnating a fibrous cord with viscous glue comprising the steps of wind-

ing the cord in a wound roll with space between adjacent turns so that the glue may penetrate the wound roll between adjacent turns when the roll is placed in the glue, soaking the wound roll of the fibrous cord in the viscous glue and thereby allowing the glue to penetrate the turns of the cord prior to the time that the cord is withdrawn from the roll, withdrawing the soaked cord from the roll at a point below the level of the glue while the roll remains in the glue, and revolving the roll as it is withdrawn to keep the glue well agitated around the roll.

2,406,708

ACCESS DOOR FITTING FOR TANKS

Francis J. Pepersack, Towson, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application August 15, 1942, Serial No. 454,985
5 Claims. (Cl. 150—3)



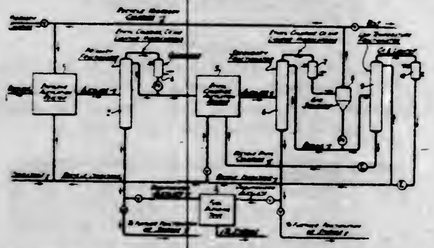
1. An access door construction for a flexible, rubber-like tank cell provided with a relatively large generally circular opening in its wall, comprising, a door of the same material as the tank cell fitted within said opening, a first flexible hoop of reinforced, rubber-like material positioned against the periphery of the circular opening of the tank cell, means for securing said first flexible hoop to the tank cell, said means comprising a continuous strip covering said hoop, said strip being secured to the inner and outer surfaces of said wall around said opening, a second flexible hoop of reinforced, rubber-like material extending around the periphery of the door, similar means for securing said second flexible hoop to the door, a continuous outer clamping flange spanning the juncture between the tank cell and the door, a continuous inner clamping flange arranged in opposition to the outer flange, spacer elements on one of the clamping flanges and extending between the two hoops for limiting the clamping action of the clamping flanges on the tank cell and the door, and separable means engaging the clamping flanges between the spacer elements to maintain them in clamping position.

2,406,709

ALKYLATION OF ISOPARAFFINS WITH ETHYLENE

Ernest F. Pevere, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application November 20, 1943, Serial No. 511,084
6 Claims. (Cl. 260—683.4)



1. In a process in which isobutane is alkylated by ethylene in a reaction zone containing an aluminum chloride alkylation catalyst, the steps which comprise providing in said reaction zone at least 0.25 mol of aluminum chloride per mol of olefin charged and sufficient hydrogen chloride to maintain a $HCl/AlCl_3$ mol ratio within the range 0.75–1.25, maintaining the temperature in said reaction zone within the range 90–140° F., and correlating the temperature and

$$HCl/AlCl_3$$

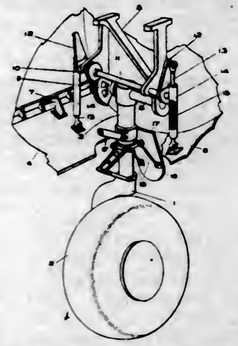
ratio within said ranges to effect the production of substantial neohexane which is at least 10% by volume of the total alkylate.

2,406,710

LANDING GEAR HOUSING DOOR

William M. Riggles, Jr., Middle River, Md.; Blaine B. Ramey, guardian of the estate of said William M. Riggles, Jr., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application October 4, 1943, Serial No. 504,850
3 Claims. (Cl. 244—102)



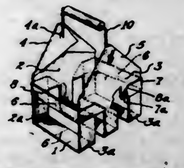
2. In aircraft having retractable landing gear, means forming a compartment within the aircraft structure to house said landing gear in the retracted position, doors forming a closure for said compartment to permit the extension of said gear for landing, said doors being formed to fit around said landing gear in the extended position to substantially close said compartment, and a mechanism actuated by means secured to said landing gear strut to open said doors to permit the retraction of said gear within said compartment and to close said doors when said gear is fully retracted, said mechanism including spring-coupled linkages for moving said doors whereby said doors are held firmly in the closed position.

2,406,711

FOLDABLE END WALL CARRIER AND CARTON

William A. Ringler, Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio, a corporation of Ohio

Application January 15, 1942, Serial No. 426,893
6 Claims. (Cl. 224—45)



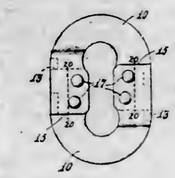
1. In a folding carton or carrier, a central wall and two side walls, the said side walls being articulated to the central wall along parallel score lines, one on each side of the central wall, two parallel pairs of straight slits being formed in said side and central walls, each of said slits beginning intermediate one of the side walls, extending across the central wall, and terminating intermediate the other side wall, said slits demarking strips of the material of said walls, which strips are articulated at their ends to the said side walls, each such strip having at each end a diagonal score line extending across it, and the proportioning of the parts being such that when the said side walls are erected at right angles to the said central wall, one of said strips may be brought outwardly at each end of the central wall, to a position in which the said strip is oriented in planes substantially at right angles to the said central wall, a central portion of each strip extending across between the two side walls, the first mentioned score lines where they extend across said strips coinciding substantially with the ends of the side walls and remaining portions of said strips lapping outside the side walls, whereby to retain the side walls in erected condition with respect to said central wall, the said central wall and portions of said side walls in the erected structure being formed of three spaced strips.

2,406,712

CHAIN LINK

William K. Robbins, Chicago, Ill.

Application February 5, 1944, Serial No. 521,189
5 Claims. (Cl. 59—84)



1. A chain link comprising two substantially U-shaped separable link members, each consisting of a blank composed of two similar parts foldable into juxtaposition and provided with interlocking elements; and means for securing said members against separation.

2,406,713

PROCESS FOR RECOVERY OF DIHYDRIC ALCOHOLS

Murray Senkus, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application February 28, 1944, Serial No. 524,284
7 Claims. (Cl. 260—633)

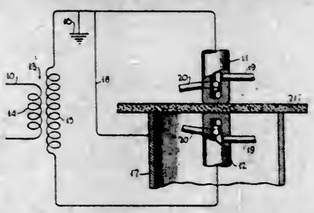
1. In a process for the recovery of dihydric alcohols from crude aqueous mixtures thereof, said alcohols being selected from the group consisting of alcohols having hydroxyl groups on adjacent carbon atoms and those having hydroxyl groups on alternate carbon atoms, the improvement comprising adding to said mixture formaldehyde and an acid acetalization catalyst, distilling the resultant mixture at temperatures below 100° C., recovering the formal thus produced and hydrolyzing the latter to obtain the free dihydric alcohol.

2,406,714

HEAT TREATMENT OF PLASTICS

Harold A. Strickland, Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 16, 1943, Serial No. 506,480
1 Claim. (Cl. 18—48)



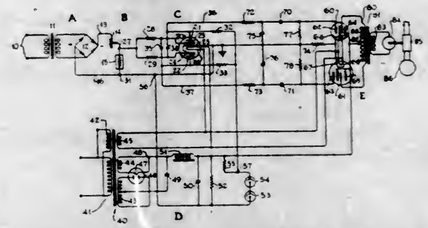
The method of heat treating a thermo-setting plastic which comprises subjecting different parts of the plastic to alternating electrical stresses of diverse values, the stresses to which one part is subjected being sufficient to produce polymerization of the plastic and the stresses to which another part is subjected being insufficient to produce polymerization whereby separate parts of the plastic are partially and completely polymerized.

2,406,715

UNIFORM ENERGY SUPPLY

Harold A. Strickland, Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 28, 1944, Serial No. 542,568
9 Claims. (Cl. 219—20)



1. In energy supply means, a heating unit, a source of power for said unit, a timer for setting the time period of application of power to said heating unit, and means connected to said timer for modifying the timer period to compensate for changes in power source voltage, said means comprising a non-linear resistor connected to the power source, means for establishing a direct current voltage across said resistor, an oscillator circuit, means for translating voltage across said resistor into current oscillations of a predetermined frequency in said oscillator circuit, and means between said timer and oscillator circuit for changing the timing period inversely as the change in oscillation frequency of said oscillator circuit.

2,406,716

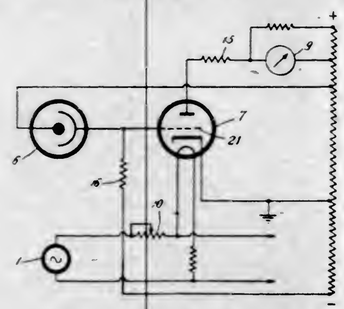
DIRECT READING DENSITOMETER

Monroe H. Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application July 29, 1942, Serial No. 452,697
5 Claims. (Cl. 88—14)

1. In a direct reading densitometer, a light source, a vacuum photo-tube for receiving light

from said source through material, the density of which is to be measured, a thermionic amplifier tube and means for supplying plate voltage thereto, the said amplifier tube being of such construction that plate current therein bears a generally logarithmic relationship to its grid current, said tube having its control grid connected with the cathode of the said photo-tube, a grid resistor of such value and bias as to effect sub-

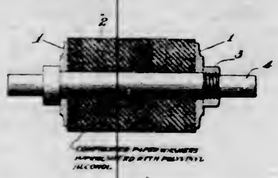


stantially uniform response of plate current to uniform changes in the logarithmic value of the light incident upon the photo-tube for values of incident light such that the grid resistor current is an appreciable fraction of the photo-tube current, and a meter having a uniformly graduated scale of density values responsively connected with the plate output of the said thermionic amplifier tube.

2,406,717
VINYL ESTER CO-POLYMERIZATION PRODUCTS
Charles Allen Thomas, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application October 8, 1940, Serial No. 360,224
10 Claims. (Cl. 260—86)

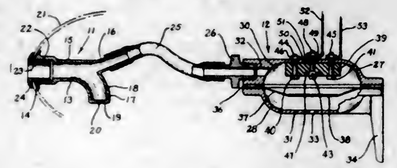
7. A co-polymer of vinyl fluoride and a vinyl ester of a lower saturated fatty acid.

2,406,718
EMBOSSING BOWL
Raymond E. Thomas, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 31, 1943, Serial No. 496,947
4 Claims. (Cl. 101—407)



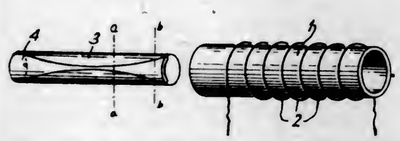
1. An embossing bowl capable of being cut in by a counter embossing roll to form a clear well defined impression and also highly resistant to temperatures up to about 300° F. comprising a large number of centrally perforated paper discs impregnated at least on their periphery with a water soluble polyvinyl alcohol composition, a mandrel passing through the said perforations and end plates for holding the discs in compressed relation.

2,406,719
STALL WARNING DEVICE
Ralph H. Upson, Pittsburgh, Pa.
Application December 7, 1943, Serial No. 513,241
12 Claims. (Cl. 200—83)



1. In an airplane angle-of-attack indicator, a conduit having an open end adapted for engagement with the leading edge of an airplane wing, a rigid casing communicating with the conduit, a flexible slack diaphragm supported by the casing in a horizontal position and dividing the casing into separate compartments, means carried by the casing for actuating a signal, and means carried by the diaphragm for operating said actuating means, said horizontally positioned diaphragm being dependent upon its gravitational weight to maintain the means carried by the diaphragm normally out of actuating relationship, the communication between said casing and conduit being directed to one compartment whereby a reduced air pressure at the open end of said conduit functions to actuate the diaphragm.

2,406,720
INDUCTANCE DEVICE
Carel Jan van Loon, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 17, 1943, Serial No. 479,465
In the Netherlands March 8, 1941
1 Claim. (Cl. 171—242)

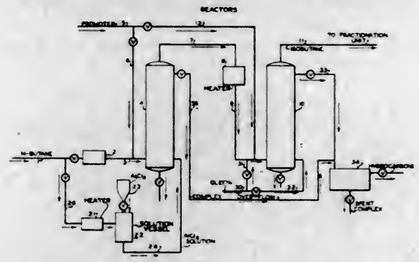


A variable inductance device comprising a coil of the solenoid type, a core movable axially within the coil and adapted upon movement from a position outside the coil to a position fully contained within the coil to vary the inductance of the coil in a predetermined manner as a function of the core travel, said core consisting of a substantially cylindrical body of magnetic material and an insert of non-magnetic conductive material embedded in the surface of said body, the surface of the insert being coextensive with that of the body, and said insert diminishing in cross-section from each end inwardly toward the center.

2,406,721
CATALYTIC CONVERSION OF HYDROCARBONS
Preston L. Veltman, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 10, 1943, Serial No. 494,187
15 Claims. (Cl. 260—683.5)

1. In a continuous process for isomerizing saturated hydrocarbons by the action of a Friedel-

Crafts metallic halide isomerization catalyst in the presence of hydrogen halide, the metallic halide being at least partially soluble in hydrocarbons undergoing treatment, the steps comprising passing a stream of saturated feed hydrocarbon to a primary reaction zone, subjecting the hydrocarbons in said zone to contact in liquid phase with a catalyst comprising at least in part free metallic halide, effecting said contact in the presence of hydrogen halide under conditions such that substantial conversion to isomers occurs and some metallic halide is dissolved in the hydrocarbons, passing a stream containing isomerized hydrocarbons and metallic halide dissolved therein from the primary zone to a secondary zone,



subjecting said stream in the secondary zone to contact in liquid phase with a body of metallic halide-hydrocarbon complex liquid substantially free from unreacted metallic halide, effecting said secondary contact under isomerizing conditions, injecting a small amount of olefin hydrocarbon to the secondary reaction zone sufficient to consume substantially said metallic halide dissolved in said stream passing to the secondary zone, thereby forming complex in situ, removing from said secondary zone a hydrocarbon stream containing isomerized hydrocarbons substantially free from dissolved metallic halide and separately discharging from the secondary zone excess complex liquid accumulating therein.

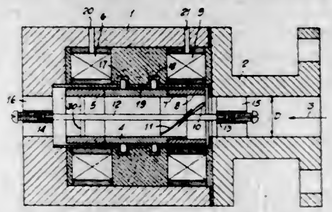
2,406,722
PRESERVING RUBBER
John R. Vincent, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1944, Serial No. 523,746
15 Claims. (Cl. 260—800)

1. The method of inhibiting the deterioration of rubber which comprises incorporating in the rubber a small proportion of a secondary aromatic amine antioxidant and from about 0.00001% to about 0.1% by weight, based on the rubber, of a member of the group consisting of phthalocyanines which consist of carbon, hydrogen and nitrogen and metal complexes of such phthalocyanines in which the metals are selected from the class consisting of copper, silver, tin, cobalt, nickel, magnesium, zinc and aluminum.

2,406,723
FLUID QUANTITY MEASURING DEVICE
Hans von Hortenau, Stockholm, Sweden, assignor to Stig K. M. Billman, Stockholm, Sweden
Application September 6, 1944, Serial No. 552,878
In Sweden October 19, 1943
8 Claims. (Cl. 73—231)

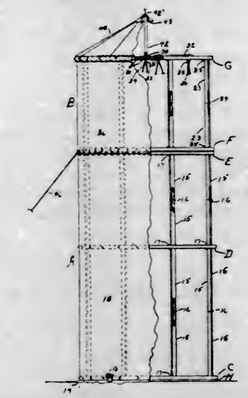
1. A fluid quantity measuring device adapted to be inserted in a fluid conduit and including a

shaft rotatable in said conduit, a turbine mounted on said shaft, an electric generator having a stator and a rotor mechanically connected with said turbine, an induction motor having a stator



and a short-circuited rotor mechanically connected with said generator rotor, and means for feeding said induction motor with constant alternating E. M. F. of constant frequency.

2,406,724
TOWER FOR DRYING PARACHUTES
Arthur E. Waterman, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin
Application August 5, 1943, Serial No. 497,510
8 Claims. (Cl. 135—1)

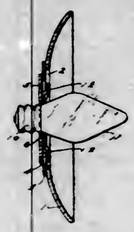


1. A collapsible tower building of the class described, comprising a plurality of spaced rings, a number of spaced ribs forming a connection between adjacent rings, said ribs comprising two pieces of equal length and being hinged together at their centers and hingedly secured at their other ends to the rings, and means whereby the ribs are foldable inwardly whereby the rings may be moved adjacent each other, a blanket secured at its ends to said rings forming the walls of the building, and adapted to be stretched taut when the ribs are extended and whereby the blanket may fold between the rings when the ribs are folded.

2,406,725
DECORATION SUPPORT
Lorne Wilfred Weaver, Pontiac, Mich.
Application March 22, 1944, Serial No. 527,565
2 Claims. (Cl. 240—103)

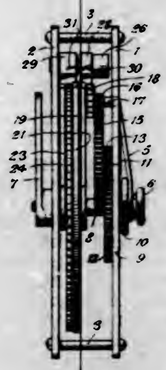
2. The combination with an electric light bulb and a decoration having a central opening larger than the bulb, of means for detachably mounting the decoration upon the bulb including a stiff flat centrally apertured disc snugly fitted on the bulb adjacent its base, angular strip-like clips secured at their inner ends on the front face

of said disc and disposed radially of the latter, said clips having their outer ends offset forwardly from the disc, a stiff flat ring having its outer margin secured on the rear face of the decoration about its central opening, the internal diameter of said ring being smaller than the outside diameter of the disc so that the outer margin of the disc contacts the rear face of the inner



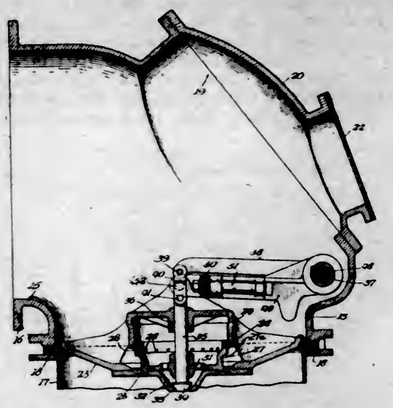
margin of the ring, said ring having notches in the inner edge thereof permitting passage of the outer ends of the clips therethrough when registered therewith, the outer ends of the clips being engageable in front of the inner marginal portions of the ring to detachably connect the disc and ring in contacting relation when they are relatively rotated while in such relation to position the clips and notches out of registry.

2,406,726
COUNTING MECHANISM
Joseph Weimont, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y., a corporation of New York
Application August 25, 1944, Serial No. 551,224
5 Claims. (Cl. 235—132)



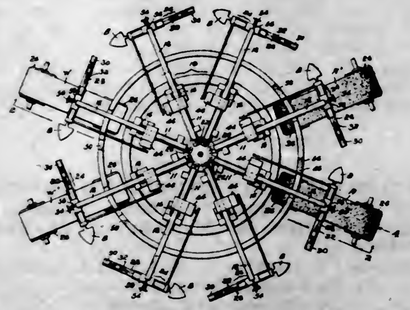
1. A counter mechanism comprising, a higher order pointer, a lower order pointer, means including a ratchet and pawl for restoring said higher order pointer to zero position from any indicating position to which it may have been set, means including a ratchet and pawl for restoring said lower order pointer to zero position from any indicating position to which it may have been set, common means for actuating said pawls, means for preventing operation of the lower order ratchet by its pawl until said higher order pointer has been restored to zero position, and means for preventing further operation of the higher order ratchet by its pawl after said higher order pointer has been restored to zero position.

2,406,727
COMBINED CHIMNEY AND BLOWOFF VALVE
Harry L. Wetherbee, Chicago, Ill., assignor to Albert Mohr, Jr., and John P. Grilli, both of Chicago, Ill.
Application August 7, 1943, Serial No. 497,728
5 Claims. (Cl. 137—144)



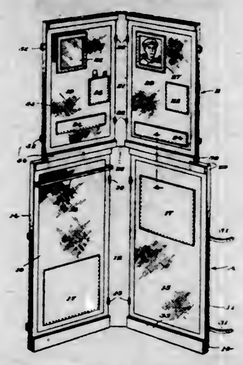
1. A combined chimney and blowoff valve of the character described, embodying a main valve element for closing an air conduit, said valve element being acted upon on one side by fluid pressure to hold the same closed and having a passage therethrough, a second valve element for closing said passage, the last said element being acted upon by said fluid pressure to hold it in a closing position, a pilot valve for controlling a passage through the said second valve element, means for opening said pilot valve whereby to permit said fluid pressure to act upon the other side thereof to assist in shifting the said second valve element to open the passage in the main valve element which is controlled thereby, to reduce the fluid closing pressure upon the main valve element to permit the latter to be opened, means for thereafter opening said main valve element, and a substantially universal connection between said main valve element and the said operating means therefor.

2,406,728
MACHINE FOR FINISHING THE HANDLES OF SHOVELS
George C. Wharton, Parkersburg, W. Va., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware
Application October 24, 1941, Serial No. 416,344
22 Claims. (Cl. 51—145)



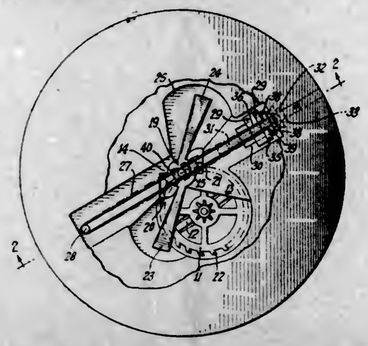
21. Apparatus for polishing the straight wooden portion of a shovel handle which has associated therewith an offset part comprising a chuck to grasp the work at a substantially single location along its length outwardly of the straight portion to be polished and itself serving to retain and carry the work with said straight portion projecting, means to rotate the chuck about the axis of the said portion, a polishing surface and means for effecting relative bodily motion between the chuck and the surface to contact the straight portion with the surface with the offset portion beyond the same.

2,406,729
HANDY TWO-PART FOLDING SCREEN
Avis K. White and Deslie F. White, Center Ossipee, N. H.
Application February 28, 1944, Serial No. 524,220
2 Claims. (Cl. 160—119)



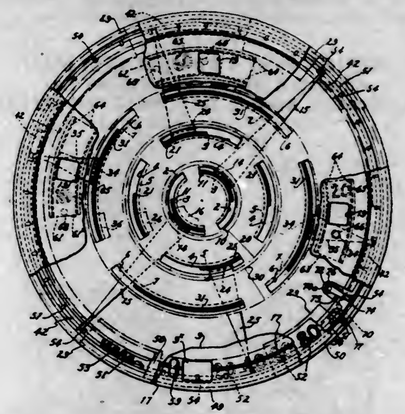
1. A screen of the kind described, comprising a lower section formed of two main panels connected together by a narrow panel, an upper section similarly constructed, means separably joining the two sections when in superposed relation and in upright position, said upper section being nestable and fastenable within the folded lower section.

2,406,730
VIBRATOR
Richard H. Whitehead, New Haven, Conn.
Application September 16, 1939, Serial No. 295,248
3 Claims. (Cl. 58—117)



1. A vibrator pivoted for vibration and having a flattened portion, a looped hair spring embracing said flattened portion in position to engage said flattened portion resiliently to resist rotation of the vibrator and means to impose tension on said spring.

2,406,731
GAME DEVICE
Leon H. Amdur, Brooklyn, N. Y.
Application August 9, 1945, Serial No. 609,740
18 Claims. (Cl. 273—102.1)



1. In a device of the class described, in combination, a central disc target member, a plurality of annular target members in concentric relation to the said disc member, the said members being mounted for a limited extent of axial movement, an indicating slide concentrically disposed outside the said target members and spring-urged for turning movement in a predetermined direction, means including an axially movable member for releasing the said spring-urged indicator slide for turning in the said predetermined direction for extents depending upon the radial distance of the respective target members from the center of the disc target member, each of the said target members having an arm extending radially to the said axially movable member and abuttable therewith to axially move the said member upon said axial movement of a target member.

2,406,732
BRISTLE SETTING
Kenneth V. Hardman, Clifton, N. J.
Application August 17, 1944, Serial No. 549,838
5 Claims. (Cl. 300—21)

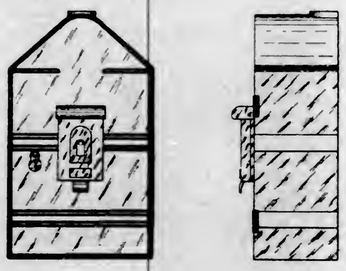


1. The method of setting bristles within a ferrule which comprises fitting within the ferrule the ends of the bristles composited with a heat hardenable, heat expansible cement in viscous but flowable condition, the cement being disposed between and outside the bristle ends, and then heating the assembly to the temperature of hardening and expansion of the cement so as to cause expansion and hardening of the cement, the cement as used containing a material that develops gas in the cement at the temperature of hardening of the cement.

DESIGNS

AUGUST 27, 1946

145,472
DESIGN FOR A FIRE ALARM BOX
Edward A. Brass, Shreveport, La.
Application April 9, 1945, Serial No. 118,934
Term of patent 14 years
(Cl. D72—1)



The ornamental design for a fire alarm box, as shown.

145,473
DESIGN FOR A HANDBAG
Bernard Calem, New York, N. Y.
Application March 13, 1946, Serial No. 127,419
Term of patent 3½ years
(Cl. D87—)



The ornamental design for a handbag, substantially as shown.

145,474
DESIGN FOR A BIRD FIGURE
Leoncio Garcia, Youngstown, Ohio
Application April 3, 1945, Serial No. 118,839
Term of patent 14 years
(Cl. D29—23)



The ornamental design for a bird figure, as shown.

145,475
DESIGN FOR A BROOCH
Frank J. Gargano, Providence, R. I.
Application January 17, 1946, Serial No. 125,677
Term of patent 3½ years
(Cl. D45—19)



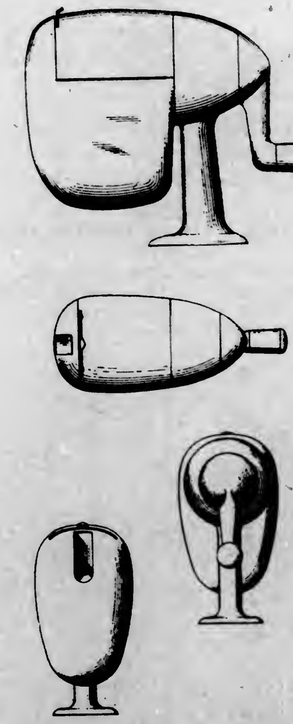
The ornamental design for a brooch, as shown.

145,476
DESIGN FOR A BROOCH
Frank J. Gargano, Providence, R. I.
Application January 17, 1946, Serial No. 125,678
Term of patent 3½ years
(Cl. D45—19)



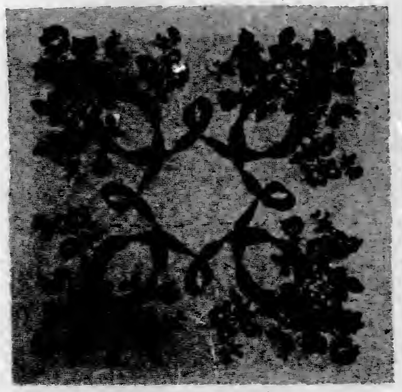
The ornamental design for a brooch, as shown.

145,477
DESIGN FOR A PENCIL SHARPENER
Jon W. Hauser, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 31, 1945, Serial No. 123,355
Term of patent 14 years
(Cl. D74—23)



The ornamental design for a pencil sharpener, substantially as shown.

145,478
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Virginia Helsley, New York, N. Y.
Application May 20, 1946, Serial No. 129,856
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a tablecloth or similar article, substantially as shown.

145,479
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Virginia Helsley, New York, N. Y.
Application May 20, 1946, Serial No. 129,857
Term of patent 3½ years
(Cl. D92—26)



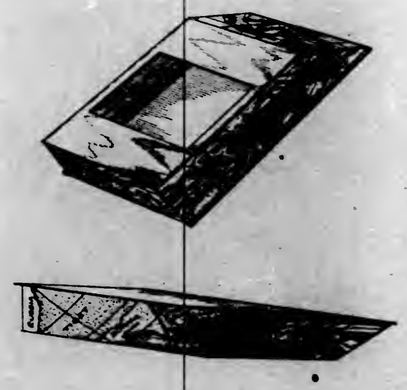
The ornamental design for a tablecloth or similar article, substantially as shown.

145,480
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Virginia Helsley, New York, N. Y.
Application May 21, 1946, Serial No. 129,957
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a tablecloth or similar article, substantially as shown.

145,481
DESIGN FOR A CONTAINER FOR TOYS AND THE LIKE
T. Barry Hedge, Chicago, Ill.
Application July 18, 1945, Serial No. 120,782
Term of patent 7 years
(Cl. D58—12)



The ornamental design for a container for toys and the like, substantially as shown.

145,482
DESIGN FOR A SLIPPER OR SIMILAR ARTICLE
Kenneth Keyes, New York, N. Y.
Application April 12, 1946, Serial No. 128,502
Term of patent 7 years
(Cl. D7—7)



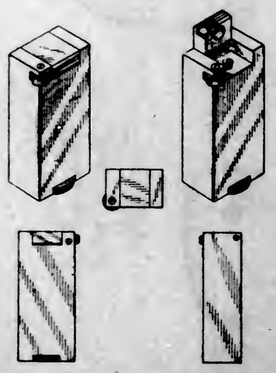
The ornamental design for a slipper or similar article, substantially as shown and described.

145,483
DESIGN FOR A SLIPPER OR SIMILAR ARTICLE
Kenneth Keyes, New York, N. Y.
Application May 21, 1946, Serial No. 129,936
Term of patent 7 years
(Cl. D7—7)



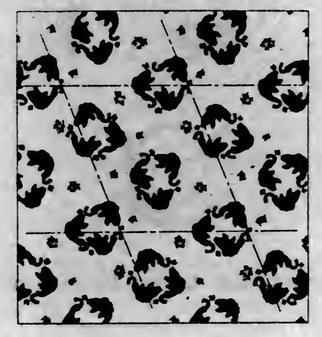
The ornamental design for a slipper or similar article, substantially as shown and described.

145,484
DESIGN FOR A CIGAR AND CIGARETTE LIGHTER
Leon H. Kirkell, Blairsville, Pa.
Application August 24, 1945, Serial No. 121,617
Term of patent 14 years
(Cl. D48—27)



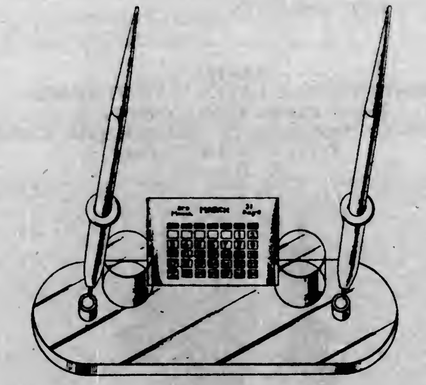
The ornamental design for a cigar and cigarette lighter, substantially as shown.

145,485
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Joe Koret, San Francisco, Calif.
Application September 11, 1945, Serial No. 122,010
Term of patent 7 years
(Cl. D92—1)



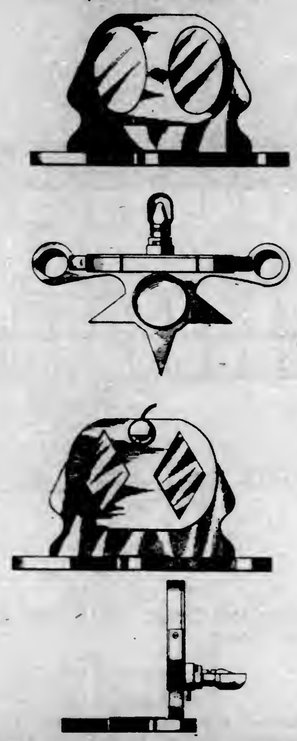
The ornamental design for a textile fabric or similar article, substantially as shown and described.

145,486
DESIGN FOR A COMBINATION DESK UNIT
Max J. Lewis, Forest Hills, N. Y.
Application March 9, 1946, Serial No. 127,297
Term of patent 3½ years
(Cl. D74—1)



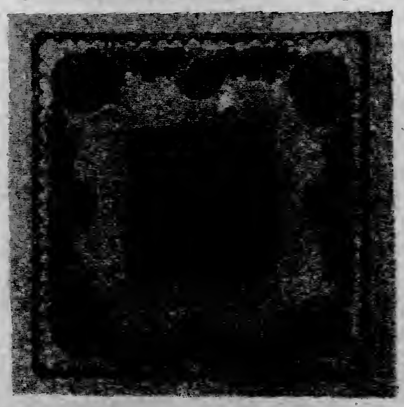
The ornamental design for a combination desk unit, substantially as shown.

145,487
DESIGN FOR A COMBINATION PICTURE FRAME AND ILLUMINABLE MIRROR
Venable H. T. McFarland, Clairton, Pa.
Application December 15, 1945, Serial No. 124,778
Term of patent 14 years
(Cl. D29—20)



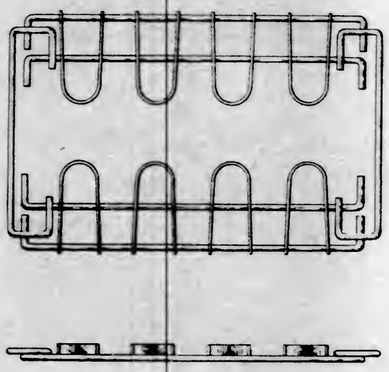
The ornamental design for a combination picture frame and illuminable mirror, as shown.

145,488
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Nellie Fay Mamoulian, New York, N. Y.
Application May 21, 1946, Serial No. 129,956
Term of patent 3½ years
(Cl. D92—26)



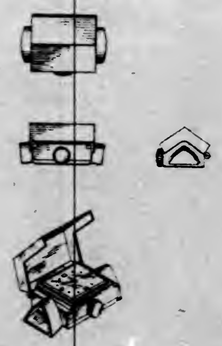
The ornamental design for a tablecloth or similar article, substantially as shown.

145,489
DESIGN FOR A STOVE GRID
Harold H. Miller, Ypsilanti, Mich., assignor to United Stove Company, Ypsilanti, Mich., a corporation of Michigan
Application September 4, 1945, Serial No. 121,827
Term of patent 14 years
(Cl. D81—10)



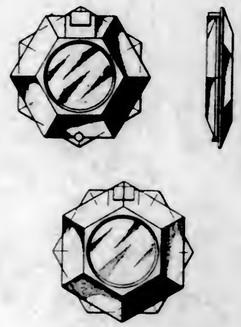
The ornamental design for a stove grid, substantially as shown.

145,490
DESIGN FOR A WRIST WATCH
Marianne Ostier, New York, N. Y.
Application February 26, 1946, Serial No. 126,909
Term of patent 7 years
(Cl. D42—8)



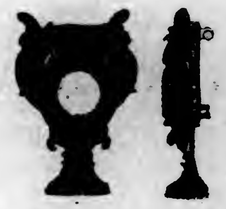
The ornamental design for a wrist watch, as shown and described.

145,491
DESIGN FOR A COMPACT
James L. Stack, Jr., Crystal Bay, Nev.
Application November 26, 1945, Serial No. 124,077
Term of patent 3½ years
(Cl. D86—10)



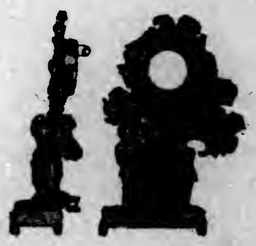
The ornamental design for a compact, as shown.

145,492
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,223
Term of patent 7 years
(Cl. D42—8)



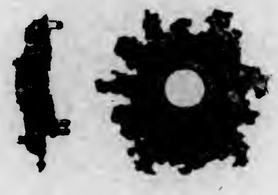
The ornamental design for a lapel watch frame, as shown and described.

145,493
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,226
Term of patent 7 years
(Cl. D42—8)



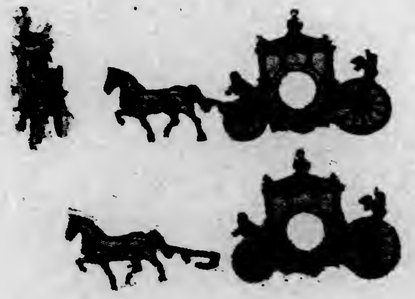
The ornamental design for a lapel watch frame, as shown and described.

145,494
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,227
Term of patent 7 years
(Cl. D42—8)



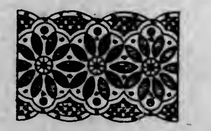
The ornamental design for a lapel watch frame, as shown and described.

145,495
DESIGN FOR A LAPEL WATCH FRAME
David Taylor, Great Neck, N. Y.
Application September 21, 1945, Serial No. 122,230
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a lapel watch frame, as shown and described.

145,496
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application April 3, 1946, Serial No. 128,205
Term of patent 3½ years
(Cl. D92—1)



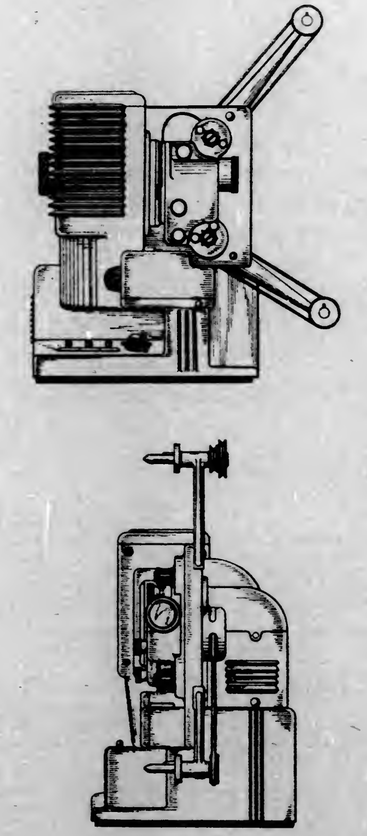
The ornamental design for an embroidered trimming or similar article, substantially as shown.

145,497
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application April 30, 1946, Serial No. 129,146
Term of patent 3½ years
(Cl. D92—1)

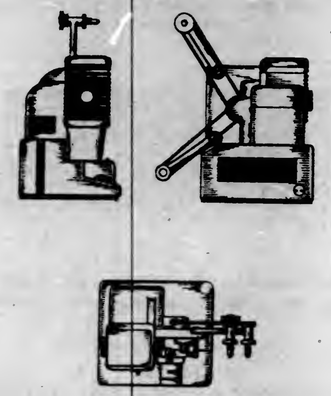


The ornamental design for an embroidered trimming or similar article, substantially as shown.

145,498
DESIGN FOR A COMBINED FILM AND SOUND PROJECTOR
Wallace W. Ward, Bloomfield, N. J., assignor to Universal Camera Corporation, New York, N. Y., a corporation of New York
Application October 10, 1945, Serial No. 122,720
Term of patent 14 years
(Cl. D61—1)



145,498—Continued



The ornamental design for a combind film and sound projector, as shown and described.

145,499

DESIGN FOR A DRINKING FOUNTAIN UNIT

Sidney A. Whitt, Yonkers, N. Y., assignor to Cordley & Hayes, New York, N. Y., a corporation of New York

Application October 10, 1945, Serial No. 122,719

Term of patent 14 years

(Cl. D91—3)





The ornamental design for a drinking fountain unit, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Advance Aluminum Castings Corp., Chicago, Ill. Cast aluminum cookware. Serial No. 492,981; Aug. 27. Class 13.

Advance Aluminum Castings Corp., Chicago, Ill. Cast aluminum cookware. Serial No. 492,983; Aug. 27. Class 13.

Africa Game Company: *See*—
Hemsch, Robert W.

American Cystoscope Makers, Inc., New York, N. Y. Preparation for the destruction of pathogenic and onopathogenic micro-organisms. Serial No. 499,035; Aug. 27. Class 6.

American Lead Pencil Company, Hoboken, N. J. Wooden lead pencils, mechanical lead pencils, and fountain pens. Serial No. 495,647; Aug. 27. Class 37.

American Metal Products Company, Bridgeport, Conn. Pyrophoric cigar and cigarette lighters. Serial No. 495,433; Aug. 27. Class 34.

American Swiss File & Tool Company, Elizabeth, N. J. Files. Serial No. 498,104; Aug. 27. Class 23.

Animal Trap Company of America, Lititz, Pa. Poisons for insects, rodents, and other pests. Serial No. 499,037; Aug. 27. Class 6.

Arbogast, Fred, Akron, Ohio. Artificial fish bait. Serial No. 494,479; Aug. 27. Class 22.

Aridor Company, The, Chicago, Ill. Closures for containers. Serial No. 456,503; Aug. 27. Class 50.

Atlas Works: *See*—
Dronsfield Brothers Limited.

Berndt, C. M., Company: *See*—
Berndt, Carroll M.

Berndt, Carroll M., doing business as C. M. Berndt Company, Baltimore, Md. Paraguayan tea (Ilex Paraguayensis). Serial No. 497,839; Aug. 27. Class 46.

Best Foods, Inc., The, New York, N. Y. Cereal foods. Serial No. 501,305; Aug. 27. Class 46.

Better Finishes and Coatings, Inc., Newark, N. J. Coating materials. Serial No. 487,456; Aug. 27. Class 16.

Biochemical Products Corporation, New York, N. Y. Pharmaceutical preparations. Serial Nos. 499,309–12; Aug. 27. Class 6.

Boland Manufacturing Company: *See*—
Boland, Stanley V.

Boland, Stanley V., doing business as Boland Manufacturing Company, Chicago, Ill. Shower caps, bathing caps, rain coats, etc. Serial No. 487,306; Aug. 27. Class 39.

Booth Fisheries Corporation, Chicago, Ill. Frozen fresh vegetables, frozen fresh fruits. Serial No. 489,098; Aug. 27. Class 46.

Buffington's Inc., Worcester, Mass. External medicinal application. Serial No. 494,013; Aug. 27. Class 6.

Calvital Company, New York, N. Y. Medical composition containing vitamins, minerals, and lactose. Serial No. 460,594; Aug. 27. Class 6.

Candlelight: *See*—
Thomas, Isaac E.

Canovaca, Rafael A., New York, N. Y. Educational cartoon drawings and strips. Serial No. 497,452; Aug. 27. Class 38.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation indicated for use in allergic conditions. Serial No. 498,981; Aug. 27. Class 6.

Civray, Inc., New York, N. Y. Cream shampoo. Serial No. 495,865; Aug. 27. Class 6.

Clothes Horse, Inc., The, Washington, D. C. Women's and misses' dresses, suits, coats, etc. Serial No. 498,115; Aug. 27. Class 39.

Denison Mattress Factory, Denison, Tex. Window curtains, drapes, bedspreads, etc. Serial No. 492,549; Aug. 27. Class 42.

Dinerman, Irving, doing business as Masterblend Cosmetic Co., Brooklyn, N. Y. Hair pomade. Serial No. 499,052; Aug. 27. Class 6.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Files and rasps. Serial No. 497,850; Aug. 27. Class 23.

Distributors Research Corporation, New York, N. Y. Fountain pens. Serial No. 494,429; Aug. 27. Class 37.

Ditto, Incorporated, Chicago, Ill. Hectograph carbon paper. Serial No. 495,958; Aug. 27. Class 11.

Dronsfield Brothers Limited, doing business as Atlas Works, Oldham, England. Emery tapes and emery fillets. Serial No. 474,399; Aug. 27. Class 4.

E-Z-Du Products: *See*—
Leavitt, Albert.

Eisemann, Erna, doing business as Pygmalion, Chicago, Ill. Mending or sewing kits. Serial No. 494,960; Aug. 27. Class 40.

Ekco Products Company, Chicago, Ill. Kitchen and household tools and utensils. Serial No. 492,696; Aug. 27. Class 23.

Electronic Mechanical Products Co., Atlantic City, N. J. Electro-mechanical instrument and parts. Serial No. 487,829; Aug. 27. Class 26.

Endicott, Richard T., Pawnee, Okla. Preparation for the treatment of hogs. Serial No. 487,182; Aug. 27. Class 6.

Erasmus Atlass Co., New York, N. Y. Tobacco pouches. Serial No. 496,305; Aug. 27. Class 8.

Exhibit Supply Company, Chicago, Ill. Coin controlled amusement apparatus. Serial No. 502,370; Aug. 27. Class 22.

Flower Foods, Inc., Maywood, Ill. Composition containing chemical ingredients. Serial No. 483,222; Aug. 27. Class 6.

Freedman-Roedelheim Company, Philadelphia, Pa. Fabrics and piece goods. Serial No. 480,950; Aug. 27. Class 42.

Gates Rubber Company, The, Denver, Colo. Power transmission belts and garden hose. Serial No. 494,439; Aug. 27. Class 35.

Gibbs & Company, Incorporated, Baltimore, Md. Canned vegetables. Serial No. 489,664; Aug. 27. Class 46.

Gleason Works, Rochester, N. Y. Gears. Serial No. 497,791; Aug. 27. Class 23.

Gray and Gray, Venice, Calif. Dill pickles, black pepper, French dressing, etc. Serial No. 483,854; Aug. 27. Class 46.

Gray, Gustave G., doing business as Manhattan Bath Robe Company, Montreal, Quebec, Canada. Bath robes, dressing gowns, house coats, etc. Serial No. 477,801; Aug. 27. Class 39.

Harvey Manufacturing Company, Racine, Wis. Corn shellers. Serial No. 495,028; Aug. 27. Class 23.

Hemsch, Robert W., doing business as Africa Game Company, New York, N. Y. Game consisting of twelve bowls. Serial No. 494,970; Aug. 27. Class 22.

Hendricks, Frank R., Puyallup, Wash. Venetian blinds. Serial No. 502,293; Aug. 27. Class 32.

Hiawatha Metal Products, Inc., Manistique, Mich. Roller skates. Serial No. 495,672; Aug. 27. Class 22.

Hollywood Doll Manufacturing Company: *See*—
Ippolito, Domenick.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Company, Glendale, Calif. Dolls. Serial No. 481,226; Aug. 27. Class 22.

Ivy Products Co., New York, N. Y. Hair pins. Serial No. 494,609; Aug. 27. Class 40.

Jayne, Dr. D., & Son, Inc., Philadelphia, Pa. Medicinal preparations. Serial No. 498,903; Aug. 27. Class 6.

Johnston, Charles N., San Francisco, Berkeley, Palo Alto, and Oakland, Calif. Photographs. Serial No. 498,145; Aug. 27. Class 38.

Kasco Mills, Inc., Toledo, Ohio. Calf feed. Serial No. 497,247; Aug. 27. Class 46.

Katz, Joseph M., Pittsburgh, Pa. Stationery. Serial No. 488,817; Aug. 27. Class 37.

Keever Starch Company, The, Columbus, Ohio. Wall size. Serial No. 499,415; Aug. 27. Class 5.

King of Slacks, Inc., New York, N. Y. Slacks for women. Serial No. 496,032; Aug. 27. Class 39.

Kisco Company, Inc., St. Louis, Mo. Circulator fan assemblies. Serial No. 497,720; Aug. 27. Class 21.

Leadway Stores Corporation, Chicago, Ill. Sanitary napkins. Serial No. 501,992; Aug. 27. Class 44.

Leavitt, Albert, doing business under the name and style of E-Z-Du Products, San Francisco, Calif. Preparation in powder form and liquid form for cleaning furniture, upholstery, rugs, etc. Serial No. 493,369; Aug. 27. Class 4.

Le Galion, S. A., Neuilly, France. Perfumes and toilet water. Serial Nos. 498,777–80; Aug. 27. Class 6.

Ligouri, Anthony J., Des Moines, Iowa. Game consisting of a punch board. Serial No. 502,703; Aug. 27. Class 22.

Lil Grape Company: *See*—
Mundorff, Harry A., Jr.

Linnea Perfumes, Inc., Chicago, Ill. Perfumes, colognes, bath salts, etc. Serial No. 486,493; Aug. 27. Class 6.

Liquid Carbonic Corporation, The, Chicago, Ill. Carbonating machines, machines for filling bottles, machines for mixing beverages, etc. Serial No. 486,906; Aug. 27. Class 23.

Lyons, J., & Company Limited, London, England. Coffee essence and coffee and chicory essence. Serial No. 495,898; Aug. 27. Class 46.

Mac Gregor Men's Toiletries, Inc., New York, N. Y. Shaving cream. Serial No. 481,485; Aug. 27. Class 4.

Manhattan Bath Robe Company: *See*—
Gray, Gustave G.

Marcalus Manufacturing Co., Inc., East Paterson, N. J. Waxed paper, and doctor rolls. Serial No. 491,662; Aug. 27. Class 37.

Masterblend Cosmetic Co.: *See*—
Dinerman, Irving.

Maternicraft Dress Co.: *See*—
Trussel, Stanley I.

McCormick & Co., Incorporated, Baltimore, Md. Tea. Serial No. 490,843; Aug. 27. Class 46.
McLaughlin Gormley King Company, Minneapolis, Minn. Insecticides. Serial No. 499,141; Aug. 27. Class 6.
Mid-West Popcorn Company, Omaha, Nebr. Salted prepared popcorn. Serial No. 483,231; Aug. 27. Class 46.
Morris & Yeomans Limited, Redditch, England. Needles, hat pins, toilet pins, etc. Serial No. 485,790; Aug. 27. Class 40.
Mundorff, Harry A., Jr., doing business as Li'l Grape Company, Wilmington, Del. Grape soda. Serial No. 489,233; Aug. 27. Class 45.
Nu-Products, Inc., Kansas City, Mo. Nursing bottle holders. Serial No. 501,402; Aug. 27. Class 44.
Oakes & Company, doing business as Tru-Test, Chicago, Ill. Culinary utensils. Serial No. 480,609; Aug. 27. Class 13.
Oliver Instrument Company, Adrian, Mich. House organ. Serial No. 498,073; Aug. 27. Class 38.
Omaha Welding Company, Omaha, Nebr. Welding rods. Serial No. 481,336; Aug. 27. Class 14.
Parfums Schiaparelli, Inc., New York, N. Y. Perfumes, colognes, toilet waters, etc. Serial No. 502,153; Aug. 27. Class 6.
Parker Shoes Limited, Leicester, England. Boots, shoes, slippers, etc. Serial No. 492,084; Aug. 27. Class 39.
Patou, Jean, Inc., New York, N. Y. Perfumes and toilet water. Serial No. 484,458; Aug. 27. Class 6.
Petroleum Solvents Corporation, New York, N. Y. Chemical solvent and cleaner. Serial Nos. 495,818–19; Aug. 27. Class 6.
Piezo Manufacturing Corporation, New York, N. Y. Smoking pipes, smoking pipe packers, tobacco humidors, etc. Serial No. 493,211; Aug. 27. Class 8.
Pygmalion: *See*—
Eisemann, Erna.
Revlon Products Corporation, New York, N. Y. Nail enamel, lipsticks, face powder, and rouge. Serial No. 488,870; Aug. 27. Class 6.
Richelieu, Marie, Parfum Odesant, Inc., New York, N. Y. Toilet water. Serial No. 493,516; Aug. 27. Class 6.
Rite-Rite Mfg. Co., Downers Grove, Ill. Mechanical pencils, pencil leads, and drafting refillable and drafting mechanical pencils. Serial No. 483,385; Aug. 27. Class 37.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Piece goods of cotton, rayon, wool, etc. Serial No. 495,906; Aug. 27. Class 42.
Roper Bros. Inc., Winter Garden, Fla. Fresh citrus fruits. Serial No. 498,798; Aug. 27. Class 46.
Rosenbloom, S., Inc., Baltimore, Md. Dress shirts, work shirts, pajamas, etc. Serial No. 488,975; Aug. 27. Class 39.
Rowland, Mary Scott, Ltd., New York, N. Y. Face powder, lip stick, pomade, etc. Serial No. 494,925; Aug. 27. Class 6.
Salsbury's, Dr., Laboratories, Charles City, Iowa. Mild astringent and a drinking water bacteriostat, etc. Serial No. 482,076; Aug. 27. Class 6.
Simplex Products Corporation, Cleveland, Ohio. Machinery shaft seals. Serial No. 491,518; Aug. 27. Class 35.
Spiegel, Inc., Chicago, Ill. Milking machines, and cream separators. Serial No. 483,635; Aug. 27. Class 23.
Squibb, E. R., & Sons, New York, N. Y. Preparations for producing muscular relaxation. Serial No. 499,169; Aug. 27. Class 6.
Standard Cap and Seal Corporation, Brooklyn, N. Y. Moistureproofed sheet material. Serial No. 494,944; Aug. 27. Class 37.
Swan-Finch Oil Corporation, New York, N. Y. Core oils and core binders. Serial No. 498,093; Aug. 27. Class 5.
"Teddy Boy" Manufacturing Company: *See*—
Tedoff, Samuel R.
Tedoff, Samuel R., doing business as "Teddy Boy" Manufacturing Company, New York and Brooklyn, N. Y. Boys' suits; boys', girls', and misses' overalls, shorts, etc. Serial No. 489,153; Aug. 27. Class 39.
Thomas, Isaac E., doing business as Candlelight, Plymouth, Mich. Polish for precious metals, etc. Serial No. 488,674; Aug. 27. Class 4.
Thomas, Isaac E., doing business as Candlelight, Plymouth, Mich. Polish for precious metals, etc. Serial No. 490,909; Aug. 27. Class 4.
Tish Products Corporation, Brooklyn, N. Y. Soap in powdered form. Serial No. 495,704; Aug. 27. Class 4.
Topliss, Norman, New York, N. Y. Window curtains. Serial No. 486,827; Aug. 27. Class 42.
Town Sportwear of Boston, Inc., Boston, Mass. Women's and misses' jackets, slacks, skirts, etc. Serial No. 498,947; Aug. 27. Class 39.
Tri-Art Co., Providence, R. I. Game utilizing a play board, spinner, tokens, etc. Serial No. 493,853; Aug. 27. Class 22.
Trussel, Stanley I., doing business as Maternicraft Dress Co., New York, N. Y. Maternity dresses. Serial No. 496,935; Aug. 27. Class 39.
Tru-Test: *See*—
Oakes & Company.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. Serial No. 502,727; Aug. 27. Class 2.
Valmor Products Co., Chicago, Ill. Hair dressing. Serial No. 498,959; Aug. 27. Class 6.
W. & A. Manufacturing Co., Atlanta, Ga. Step-on garbage cans. Serial No. 501,547; Aug. 27. Class 2.
Westinghouse Electric Corporation, Baltimore, Md. X-ray apparatus. Serial No. 502,674; Aug. 27. Class 44.
Whiting, Geo. A., Paper Company, Menasha, Wis. Cover paper. Serial No. 495,643; Aug. 27. Class 37.
Wilson Jones Company, Chicago, Ill. Loose leaf binders. Serial No. 495,713; Aug. 27. Class 37.
Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Canned citrus juices and tomato juice. Serial No. 488,136; Aug. 27. Class 46.
Zitomer Chemists, Inc., New York, N. Y. Eye wash. Serial No. 496,359; Aug. 27. Class 6.
Zitomer Chemists, Inc., New York, N. Y. Vitamin preparation. Serial No. 496,360; Aug. 27. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abraham & Strauss, Inc., New York, N. Y., to Abraham & Strauss, Inc., Brooklyn, N. Y. Shoe lasts, animal traps, rat traps, etc. 216,525; renewed Aug. 10, 1946. O. G. Aug. 27. Class 50.
Acme Brick Company, Fort Worth, Tex. Brick. 216,538; renewed Aug. 10, 1946. O. G. Aug. 27. Class 12.
Aktiebolaget Yvy-Fabriken, Ystad, Sweden. Chemicals, medicines, and pharmaceutical preparations. 211,214; renewed Apr. 6, 1946. O. G. Aug. 27. Class 6.
Altman, Irving, New York, N. Y. Amusement devices. 423,403: Aug. 27. Class 22.
American Bosch Corporation: *See*—
American Bosch Magneto Corporation.
American Bosch Magneto Corporation, to American Bosch Corporation, Springfield, Ohio. Electrical apparatus, machines, and supplies. 211,829; renewed Apr. 20, 1946. O. G. Aug. 27. Class 21.
American Chemical Paint Company, Ambler, Pa. Prepared caustic for removing paint and enamel. 216,081; renewed Aug. 3, 1946. O. G. Aug. 27. Class 16.
American Excelsior Corporation: *See*—
Selle, H. W., & Co.
American Hard Rubber Company, New York, N. Y. Rubber combs. 51,383; re-renewed Apr. 17, 1946. O. G. Aug. 27. Class 40.
American Hard Rubber Company, New York, N. Y. Rubber combs. 51,412; re-renewed Apr. 17, 1946. O. G. Aug. 27. Class 40.
American Hard Rubber Company, New York, N. Y. Hard-rubber combs. 51,721; re-renewed Apr. 24, 1946. O. G. Aug. 27. Class 40.
American Hard Rubber Company, New York, N. Y. Hard-rubber combs. 52,085; re-renewed May 1, 1946. O. G. Aug. 27. Class 40.
Amsel, William: *See*—
Warshaw, Philip H., Inc.
Anchor Shoe Polish Mfg. Co.: *See*—
Vassilatos, William T.
Anheuser-Busch Brewing Association, to Anheuser-Busch, Inc., St. Louis, Mo. Bottled lager-beer. 28,866; renewed Sept. 8, 1946. O. G. Aug. 27. Class 48.
Anheuser-Busch, Inc.: *See*—
Anheuser-Busch Brewing Association.
Annin & Co., New York, N. Y. Artificial silk in the piece. 218,142; renewed Sept. 21, 1946. O. G. Aug. 27. Class 42.
Arcadio Rosas, Tampa, Fla. Cigars. 423,422; Aug. 27. Class 17.
Arco Company, The: *See*—
Atlantic Refining Company, The.
Arrow Electric Company, The, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Rotary snap switches. 217,895; renewed Sept. 14, 1946. O. G. Aug. 27. Class 21.
Arrow-Hart & Hegeman Electric Company, The: *See*—
Arrow Electric Company, The.
Artvogue Sportswear Co., San Francisco, Calif. Men's and boys' sport shirts. 423,413; Aug. 27. Class 39.
Associated Products, Inc., Chicago, Ill. Face powder, face makeup in liquid form, creams for the hands and face, etc. 423,357; Aug. 27; Serial No. 495,438; published May 28, 1946. Class 6.
Atlantic Refining Company, The, to The Arco Company, Cleveland, Ohio. Waterproof structural and roof paint. 52,055; re-renewed May 1, 1946. O. G. Aug. 27. Class 16.
Automotive Specialty Corporation, The, to The Automotive Specialty Corporation, Brooklyn, N. Y. Repair and replacement parts. 212,467; renewed May 4, 1946. O. G. Aug. 27. Class 19.

Avon Products, Inc., New York, N. Y. Perfumes and toilet waters. 423,279; Aug. 27; Serial No. 491,796; published May 28, 1946. Class 6.
Ayerst, McKenna & Harrison Limited, New York, N. Y. Orally active estrogenic placental hormones and vitamin B Complex in dosage forms. 423,221; Aug. 27; Serial No. 482,607; published May 14, 1946. Class 6.
Ayerst, McKenna & Harrison Limited, New York, N. Y. Hemostatic. 423,375; Aug. 27; Serial No. 497,060; published May 28, 1946. Class 6.
Babani, Maurice, New York, N. Y. Perfumes and toilet water. 423,361; Aug. 27; Serial No. 495,650; published May 21, 1946. Class 6.
Babbitt, B. R., Inc., Albany, and New York, N. Y. Lye. 423,370–1; Aug. 27; Serial Nos. 496,597–8; published May 28, 1946. Class 6.
Backman, Bernice, doing business as Beautymasters of Beverly Hills, Beverly Hills, Calif. Eye lotion, face lotion, cleansing cream, etc. 423,394; Aug. 27. Class 6.
Baitch & Castaldi, Inc., New York, N. Y. Ladies', misses', and juniors' coats and suits. 423,301; Aug. 27; Serial No. 492,681; published June 4, 1946. Class 39.
Ballantine, P., & Sons: *See*—
Feigenspan, Christian.
Baron, Herman, New York, N. Y. Women's, misses', and girls' dresses, suits, coats, etc. 423,253; Aug. 27; Serial No. 490,414; published June 4, 1946. Class 39.
Baruch, Alfred, doing business as Neptune Engineering Company, New York, N. Y. Graphitic steel. 423,302; Aug. 27; Serial No. 492,760; published May 21, 1946. Class 14.
Beautymasters of Beverly Hills: *See*—
Backman, Bernice.
Beaver Products Company, Inc., The, Buffalo, N. Y., to Certain-teed Products Corporation, Chicago, Ill. Plaster. 212,152; renewed Apr. 27, 1946. O. G. Aug. 27. Class 12.
Beech-Nut Packing Company, Canajoharie, N. Y. Cured ham, bacon, beef, canned pork and beans, fruit preserves, etc. 217,287; renewed Aug. 31, 1946. O. G. Aug. 27. Class 46.
Beech-Nut Packing Company, Canajoharie, N. Y. Cured ham, bacon, beef, canned pork and beans, fruit preserves, etc. 217,366; renewed Aug. 31, 1946. O. G. Aug. 27. Class 46.
Belcano Company, Jersey City, N. J. Perfumes, toilet waters, lipsticks, etc. 423,337; Aug. 27; Serial No. 493,729; published May 28, 1946. Class 6.
Belcano Company, Jersey City, N. J. Perfumes, toilet waters, lipsticks, etc. 423,347; Aug. 27; Serial No. 494,010; published May 28, 1946. Class 6.
Belfaire Cosmetics, Inc., New York, N. Y. Waving and neutralizing solutions. 423,255; Aug. 27; Serial No. 490,626; published May 21, 1946. Class 6.
Bennett, F. H., Biscuit Company, to National Biscuit Company, New York, N. Y. Animal biscuits. 218,468; renewed Sept. 28, 1946. O. G. Aug. 27. Class 46.
Berliner, Sydney. Women's clothing. 423,423; Aug. 27. Class 39.
Berman Paper Corporation, doing business as Harlem Card & Paper Company, New York, N. Y. Printing and writing paper and envelopes. 423,243; Aug. 27; Serial No. 489,252; published June 4, 1946. Class 37.
Black and Decker Manufacturing Company, Towson, Md. Portable electric drills and twist-drill grinders, portable electric screw, bolt and nut drivers, etc. 216,294; renewed Aug. 10, 1946. O. G. Aug. 27. Class 21.
Blackwell, J. R.: *See*—
Taylor, William G.
Blue Lake Producers Cooperative, Salem, Oreg. Canned beans and canned corn. 423,387; Aug. 27. Class 46.
Bonwit Teller, Inc., New York, N. Y. Perfumes. 423,216; Aug. 27; Serial No. 481,264; published May 28, 1946. Class 6.
Bouton: *See*—
Button, George W., Co.
Brenner, Simon, Wooster, Ohio. Men's and boys' underwear. 423,205; Aug. 27; Serial No. 471,968; published May 7, 1946. Class 39.
Bridges, John S., doing business as John S. Bridges & Co., to Harry S. Scott, Inc., Baltimore, Md. Printed books, pamphlets, catalogues, etc. 216,766; renewed Aug. 17, 1946. O. G. Aug. 27. Class 38.
Bridges, John S., doing business as John S. Bridges & Co., to Harry S. Scott, Inc., Baltimore, Md. Printed mailing envelopes, letter-heads, billheads, etc. 217,270; renewed Aug. 31, 1946. O. G. Aug. 27. Class 37.
Bridges, John S., & Co.: *See*—
Bridges, John S.
Brignall, Guy E., doing business as Lite Soap Company, Aurora, Ill. Shampoo. 216,364; renewed Aug. 10, 1946. O. G. Aug. 27. Class 6.
Burkay Co., The, Toledo, Ohio. Differential expansion thermally actuated fluid burner control apparatus and parts thereof. 423,257; Aug. 27; Serial No. 490,786; published June 4, 1946.
Burt's, Inc., Cleveland, Ohio. Ladies', misses', and childrens' fur, and fur trimmed coats, hats, jackets, etc. 423,228; Aug. 27; Serial No. 485,325; published June 4, 1946. Class 39.
Button, George W., Co., doing business as Bouton, New York, N. Y. Perfume. 423,316; Aug. 27; Serial No. 493,100; published May 21, 1946. Class 6.
C-Y Laboratories, Inc., Memphis, Tenn., assignors to Consolidated Cosmetics, Chicago, Ill. Purgatives. 423,338; Aug. 27; Serial No. 493,740; published May 21, 1946. Class 6.
California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. 423,264; Aug. 27; Serial No. 491,151; published May 21, 1946. Class 6.
Callaway Mills, La Grange, Ga. Treated polishing cloths. 423,313; Aug. 27; Serial No. 493,039; published June 4, 1946. Class 4.
Carew Manufacturing Company, South Hadley Falls, Mass. Bond paper. 215,037; renewed July 6, 1946. O. G. Aug. 27. Class 37.
Carew Manufacturing Company, South Hadley Falls, Mass. Ledger paper. 215,325; renewed July 13, 1946. O. G. Aug. 27. Class 37.
Cash, J. & J., Incorporated, South Norwalk, Conn. Textile small wares. 215,723; renewed July 27, 1946. O. G. Aug. 27. Class 40.
Cavendish Knitwear Corp., New York, N. Y. Men's and boys' sweaters. 423,344; Aug. 27; Serial No. 493,947; published May 14, 1946. Class 39.
CEB Manufacturing Company: *See*—
Embree, Spencer D.
Celanese Corporation of America, New York, N. Y. Envelopes, envelope windows, papery material. 423,267; Aug. 27; Serial No. 491,231; published June 4, 1946. Class 37.
Certain-teed Products Corporation: *See*—
Beaver Products Company, Inc., The
Chain Products Company, The, to The Hodell Chain Company, Cleveland, Ohio. Chains and chain products and hooks, rings, etc. 217,347; renewed Aug. 31, 1946. O. G. Aug. 27. Class 13.
Chamberlain Co., Inc., Los Angeles, Calif. Sea coal, graphite, core binder, etc. 217,126; renewed Aug. 24, 1946. O. G. Aug. 27. Classes 1 and 5.
Checks, Incorporated, New York, N. Y. Check blanks wound in rolls, etc. 423,381; Aug. 27. Class 37.
Chemical Foundation, Incorporated, The: *See*—
Farbwerke vorm. Meister Lucius & Brüning.
Chrysler Corporation, Highland Park, Mich. Coal stokers and structural parts thereof. 423,308; Aug. 27; Serial No. 492,893; published June 4, 1946. Class 34.
Clark Thread Company, The, Newark, N. J. Cotton threads. 54,934; re-renewed Aug. 7, 1946. O. G. Aug. 27. Class 43.
Clark Thread Company, The, Newark, N. J. Vamping-thread. 56,110; re-renewed Aug. 28, 1946. O. G. Aug. 27. Class 43.
Clough, Minnie S.: *See*—
Ferolene Sales Co., The.
Cohen Bros. Specialties Inc., New York, N. Y. Men's robes. 423,425; Aug. 27. Class 39.
Coleman Company, Inc., The, Wichita, Kans. Thermostatically controlled regulating apparatus. 423,229; Aug. 27; Serial No. 485,328; published Oct. 23, 1945. Class 26.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 423,320; Aug. 27; Serial No. 493,251; published June 4, 1946. Class 4.
Connecticut Research Foundation, Stratford, Conn. Abrasive grits and grinding wheels and grinding disks. 423,248; Aug. 27; Serial No. 489,942; published May 28, 1946. Class 4.
Consolidated Cosmetics, Chicago, Ill. Lipstick, rouge, face powder, etc. 423,324; Aug. 27; Serial No. 493,429; published May 21, 1946. Class 6.
Consolidated Cosmetics, assignee: *See*—
C-Y Laboratories, Inc.
Consolidated Cosmetics, Chicago, Ill. Face powder, lipstick, hand cream, etc. 423,398; Aug. 27. Class 6.
Coty, Inc.: *See*—
Schele, Arnold J.
Cresca Company, Incorporated, New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. 218,268; renewed Sept. 21, 1946. O. G. Aug. 27. Class 17.
Cristobal Balenciaga Elizaguirre, San Sebastian, Spain. Washing soap, toilet soap, scented soap, etc. 423,262; Aug. 27; Serial No. 491,073; published May 14, 1946. Class 4.
Cyeton Products, Los Angeles, Calif. Shampoo. 423,238; Aug. 27; Serial No. 488,515; published May 21, 1946. Class 6.
Daisy Manufacturing Company, Plymouth, Mich. Toy guns and toy pistols. 423,363; Aug. 27; Serial No. 496,014; published June 4, 1946. Class 22.
Daizee Products Co., New York, N. Y. Dry-cleaning and water-repellent compound. 423,299; Aug. 27; Serial No. 492,617; published May 14, 1946. Class 4.
Danax Company: *See*—
Soman, David A.
Daren Limited: *See*—
Keyes Daren Mills Limited.
Davis Keyseater Company: *See*—
Grenelle, Edward A.
Detroit Insulated Wire Company, Detroit, Mich., to General Cable Corporation, New York, N. Y. Armored cables, armored cords, and flexible metallic conduits. 215,327; renewed July 13, 1946. O. G. Aug. 27. Class 21.

Diamond Chain Company, Inc.: *See*—
Diamond Chain & Manufacturing Co.

Diamond Chain & Manufacturing Co., to Diamond Chain Company, Inc., Indianapolis, Ind. Repair-links for link chains. 54,703; re-renewed June 26, 1946. O. G. Aug. 27. Class 13.

Donna Louise, Inc., Boston, Mass. Misses' and ladies' blouses. 423,220; Aug. 27; Serial No. 482,293; published May 21, 1946. Class 39.

Dorward & Sons Co., San Francisco, Calif. Raw and treated animal, vegetable, and mineral oils. 423,345–6; Aug. 27; Serial Nos. 493,949–50; published May 28, 1946. Class 6.

Duchess Royal, New York, N. Y. Bathing suits. 423,314; Aug. 27; Serial No. 493,055; published June 4, 1946. Class 39.

Duchess Royal, New York, N. Y. Bathing suits. 423,315; Aug. 27; Serial No. 493,056; published May 14, 1946. Class 39.

Dunhill, Mary, Limited, London, England. Cosmetic preparation. 423,366; Aug. 27; Serial No. 496,214; published May 28, 1946. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polishes acting as dirt and grease removers and cleaning materials. 213,050; renewed May 18, 1946. O. G. Aug. 27. Class 4.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Paint pigments. 423,318–19; Aug. 27; Serial Nos. 493,173–4; published May 28, 1946. Class 16.

Durham Hosiery Mills, Durham, N. C. Hosiery. 423,321; Aug. 27; Serial No. 493,334; published May 7, 1946. Class 39.

Durham, N. N., doing business as Durham's Prescription Pharmacy and Durham's RX Pharmacy, Comanche, Tex. Astringent and acidulant. 423,242; Aug. 27; Serial No. 488,994; published May 21, 1946. Class 6.

Durham's Prescription Pharmacy: *See*—
Durham, N. N.

Durham's RX Pharmacy: *See*—
Durham, N. N.

Durite Corporation, Detroit, Mich. Dry cleaners, rug shampoo cleaners, window cleaners, etc. 423,268; Aug. 27; Serial No. 491,247; published June 4, 1946. Class 4.

Eagle, C. E., and Company: *See*—
Eagle, Cecil E.

Eagle, Cecil E., doing business as C. E. Eagle and Company, Hutchinson, Kans. Instruments for assisting the hearing. 423,325; Aug. 27; Serial No. 493,436; published June 4, 1946. Class 44.

Edwards, Ralph R., San Diego, Calif. Razor strops. 217,463; renewed Aug. 31, 1946. O. G. Aug. 27. Class 4.

Eisenman, Charles, & Co., to The Kaynee Company, Cleveland, Ohio. Men's shirts and boys' shirts, waists, and blouses. 53,829; re-renewed June 12, 1946. O. G. Aug. 27. Class 39.

Embree, Spencer D., doing business as CEB Manufacturing Company, Elizabeth, N. J. Synthetic detergent for general cleaning purposes. 423,269; Aug. 27; Serial No. 491,250; published June 4, 1946. Class 4.

Erwin, F. B., doing business as Erwin Products, Deerfield, Ill. Ear drops for dogs. 423,390; Aug. 27. Class 6.

Erwin, F. B., doing business as Erwin Products, Deerfield, Ill. Preparation for treatment and alleviation of fungus skin infections in dogs. 423,391; Aug. 27. Class 6.

Erwin Products: *See*—
Erwin, F. B.

Etablissements Rigaud, Inc., New York, N. Y. Perfumes and toilet waters. 423,224; Aug. 27; Serial No. 484,167; published May 21, 1946. Class 6.

Eutectic Welding Alloys Corporation, New York, N. Y. Fluxes employed in welding, brazing, soldering, etc. 423,367; Aug. 27; Serial No. 496,227; published May 28, 1946. Class 6.

Famous Players-Lasky Corporation to Paramount Pictures Inc., New York, N. Y. Moving pictures. 211,470; renewed Apr. 13, 1946. O. G. Aug. 27. Class 26.

Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the Main, Germany, to Chemical Foundation, The, Incorporated, New York, N. Y. Anesthetics. 55,744; re-renewed Aug. 21, 1946. O. G. Aug. 27. Class 6.

Feigenspan, Christian, to P. Ballantine & Sons, Newark, N. J. Lager-beer. 52,507; re-renewed May 8, 1946. O. G. Aug. 27. Class 48.

Fels & Company: *See*—
Fels & Co.

Fels & Co., to Fels & Company, Philadelphia, Pa. Soap. 54,776; re-renewed July 31, 1946. O. G. Aug. 27. Class 4.

Fels & Company, to Fels & Company, Philadelphia, Pa. Soap. 55,478; re-renewed Aug. 14, 1946. O. G. Aug. 27. Class 4.
Class 4.

Ferolene Sales Co., The, to Minnie S. Clough, Kansas City, Mo. Preparation for cleaning and lubricating ferrotype tins. 213,698; renewed June 1, 1946. O. G. Aug. 27. Class 6.

Fillmore Citrus Association: *See*—
Fillmore Packing Co.

Fillmore Citrus Fruit Association, to Fillmore Lemon Association, Fillmore, Calif. Fresh citrous fruits. 218,072; renewed Sept. 21, 1946. O. G. Aug. 27. Class 46.

Fillmore Citrus Packing Co.: *See*—
Fillmore Packing Co.

Fillmore Lemon Association: *See*—
Fillmore Citrus Lemon Association.

Fillmore Packing Co., doing business as Fillmore Citrus Packing Co., to Fillmore Citrus Association, Fillmore, Calif. Fresh citrous fruits. 218,073; renewed Sept. 21, 1946. O. G. Aug. 27. Class 46.

Firth Sterling Steel Company, McKeesport, Pa. High speed steel in the form of bars, rods, blocks, and discs. 423,231; Aug. 27; Serial No. 485,769; published May 21, 1946. Class 14.

Flame Thrower Co., Chicago, Ill. Pyrophoric cigarette and cigar lighters of the pocket type. 423,309; Aug. 27; Serial No. 492,913; published June 4, 1946. Class 34.

Ford, J. B., Company, The, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Paint and enamel remover. 213,279; renewed May 25, 1946. O. G. Aug. 27. Class 16.

Forstmann & Huffman Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 212,263; renewed Apr. 27, 1946. O. G. Aug. 27. Class 42.

Forstmann Woolen Co: *See*—
Forstmann & Huffman Company.

Foster, Babette A., New York, N. Y. Perfumes. 423,210; Aug. 27; Serial No. 478,211; published May 28, 1946. Class 6.

Franklin Photographic Industries, Chicago, Ill. Motion picture cameras and parts therefor. 423,206; Aug. 27; Serial No. 473,599; published June 4, 1946. Class 26.

Frederics, John, Inc., New York, N. Y. Shaving cream, facial and bath soaps. 423,258; Aug. 27; Serial No. 490,806; published May 14, 1946. Class 4.

Fuchs & Lang Manufacturing Company, The, Brooklyn and New York, to Sun Chemical Corporation, New York, N. Y. Lithographic ink. 28,026; re-renewed Mar. 31, 1946. O. G. Aug. 27. Class 11.

Futter, Carl A., Chicago, Ill. Deodorant stick. 423,334; Aug. 27; Serial No. 493,674; published May 21, 1946. Class 6.

Future Fashions, Inc., New York, N. Y. Ladies' and misses' dresses, sportswear. 423,217; Aug. 27; Serial No. 481,281; published May 7, 1946. Class 39.

Gamble-Skogmo, Inc., Minneapolis, Minn. Suits, overcoats, topcoats, etc. 423,382; Aug. 27. Class 39.

Geille, Frédéric, Seine, France. Perfumes, toilet waters, rouge, etc. 423,287; Aug. 27; Serial No. 491,967; published May 21, 1946. Class 6.

Geille, Frédéric, Seine, France. Perfumes, toilet waters, rouge, etc. 423,288; Aug. 27; Serial No. 491,969; published May 21, 1946. Class 6.

General Cable Corporation: *See*—
Detroit Insulated Wire Company.
Phillips Insulated Wire Co.

General Foods Corporation: *See*—
General Seafoods Corporation.

General Mills, Inc., Minneapolis, Minn. Feed for animals. 423,386; Aug. 27. Class 46.

General Seafoods Corporation, Gloucester, Mass., to General Foods Corporation, New York, N. Y. Fresh fish and fresh fish flesh. 216,179; renewed Aug. 3, 1946. O. G. Aug. 27. Class 46.

General Solvents Sales Company, Inc., Rochester, N. Y. Liquid solvent and cleaner for removing tar, wax, oil, etc. 423,274; Aug. 27; Serial No. 491,473; published June 4, 1946. Class 4.

General Sportwear Co., Inc., Ellenville, N. Y. One-piece, two-piece pajamas and lounging garments. 423,304; Aug. 27; Serial No. 492,831; published May 28, 1946. Class 39.

Ghiselin, R. S., Chicago, Ill. Detergent compound. 423,335; Aug. 27; Serial No. 493,678; published June 4, 1946. Class 4.

Glass, Henry, & Co., New York, N. Y. Cotton piece goods, silk and cotton piece goods, etc. 214,769; renewed July 6, 1946. O. G. Aug. 27. Class 42.

Glass, Henry, & Co., New York, N. Y. Cotton piece goods, silk and cotton piece goods, etc. 214,811–13; renewed July 6, 1946. O. G. Aug. 27. Class 42.

Glenshore Manufacturing Co., Denver, Colo. Trousers of corduroy material. 423,339; Aug. 27; Serial No. 493,760; published May 7, 1946. Class 39.

Goodall Company, Sanford, Maine, and Cleveland, Ohio. Men's and boys' suits. 423,411; Aug. 27. Class 39.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Raw thermosetting resins. 423,275; Aug. 27; Serial No. 491,562; published June 4, 1946. Class 1.

Goodyear Rubber Sundries Inc., New Haven, Conn. Baby pants. 423,332; Aug. 27; Serial No. 493,546; published May 14, 1946. Class 39.

Grant Photo Products, Inc., New York, N. Y. Photographic developing solution. 423,350; Aug. 27; Serial No. 494,214; published May 28, 1946. Class 6.

Grenelle, Edward A., doing business as Davis Keyseater Company, Rochester, N. Y. Machines for cutting keyseats. 216,291; renewed Aug. 10, 1946. O. G. Aug. 27. Class 23.

Griffith Laboratories, Inc., The, Chicago, Ill. Salt. 218,136; renewed Sept. 21, 1946. O. G. Aug. 27. Class 46.

Grossman-Feld Cloak Co., New York, N. Y. Ladies' and misses' coats and suits. 423,420; Aug. 27. Class 39.

H. L. B. Corporation, New York, N. Y. Men's, boys', and girls' leather snow and ski jackets, sport coats, and jackets. 423,294; Aug. 27; Serial No. 492,494; published May 21, 1946. Class 39.

Hall Brothers, Incorporated, Kansas City, Mo. Blank tickets. 423,209; Aug. 27; Serial No. 478,123; published June 4, 1946. Class 37.

Harbor Hills Sportswear, Inc.: *See*—
Leisure Fit Manufacturing Company.

Harlem Card & Paper Company: *See*—
Berman Paper Corporation.

Harrel, Joan, Dresses, Inc., New York, N. Y. Ladies' dresses of knitted, netted, and textile fabrics. 423,415; Aug. 27. Class 39.

Hart, Schaffner & Marx, Chicago, Ill. Men's and boys' suits, coats, overcoats, etc. 423,399; Aug. 27. Class 39.

Hawk & Buck Co., Incorporated, The: *See*—
Miller Company, The.

Heide, Henry, to Heide, Henry, Incorporated, New York, N. Y. Almond paste. 54,938; re-renewed Aug. 7, 1946. O. G. Aug. 27. Class 46.

Heide, Henry, Incorporated: *See*—
Heide, Henry.

Herman, Louis, & Company, New York, N. Y. Women's slips. 423,292; Aug. 27; Serial No. 492,440; published May 28, 1946. Class 39.

Hickok Manufacturing Company, Rochester, N. Y. Face lotion, cologne, hair tonic, etc. 423,407–8; Aug. 27. Class 6.

Hirsch Bros. & Co., Louisville, Ky. Bottled salad dressing. 218,498; renewed Sept. 28, 1946. O. G. Aug. 27. Class 46.

Hlavaty Insulations: *See*—
Hlavaty, Rudolph F.

Hlavaty, Rudolph F., doing business as Hlavaty Insulations, Cicero, Ill. Insulation. 423,232; Aug. 27; Serial No. 485,771; published Nov. 6, 1945. Class 12.

Hodell Chain Company, The: *See*—
Chain Products Company, The.

Holmes-Darst Coal Corporation, Knoxville, Tenn. Coal. 423,280; Aug. 27; Serial No. 491,882; published June 4, 1946. Class 1.

Horton & Converse, Los Angeles, Calif. Sterile aqueous solution of 1-histidine monohydrochloride. 423,343; Aug. 27; Serial No. 493,873; published May 21, 1946. Class 6.

Hygrade Coat Co., Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 423,340; Aug. 27; Serial No. 493,774; published May 21, 1946. Class 39.

Hudnut, Richard, New York, N. Y. Soaps. 423,235; Aug. 27; Serial No. 487,839; published June 4, 1946. Class 4.

Ibold, Michael, Inc., Cincinnati, Ohio. Cigars. 218,009; renewed Sept. 14, 1946. O. G. Aug. 27. Class 17.

Illes, A. E., Company, Dallas, Tex. Preparation used in the treatment of athlete's foot. 423,362; Aug. 27; Serial No. 495,743; published May 21, 1946. Class 6.

Industrial Oil Products Corporation, Los Angeles, Calif. Processed oil. 423,352; Aug. 27; Serial No. 495,236; published May 21, 1946. Class 6.

Ingraham, E., Company, The, Bristol, Conn. Clocks. 214,402; renewed June 22, 1946. O. G. Aug. 27. Class 27.

International Harvester Company, Chicago, Ill. Wagons and parts thereof. 217,030; renewed Aug. 24, 1946. O. G. Aug. 27. Class 19.

Irresistible, Inc., New York, N. Y. Eau de cologne. 423,327; Aug. 27; Serial No. 493,489; published May 21, 1946. Class 6.

Iszard Co., S. F., Elmira, N. Y. Misses' and junior dresses and coats. 423,402; Aug. 27. Class 39.

Jacobson, F., & Sons, Inc., New York, N. Y. Outer shirts. 423,286; Aug. 27; Serial No. 491,918; published May 21, 1946. Class 39.

Jaden, F., Manufacturing Co., Inc., Hastings, Nebr. Air conditioners. 423,230; Aug. 27; Serial No. 485,508; published June 4, 1946. Class 34.

Judson Laboratories: *See*—
Sencindiver, Judson H.

Juliana Underwear Co., New York, N. Y. Misses' and women's lingerie. 423,263; Aug. 27; Serial No. 491,098; published May 7, 1946. Class 39.

Kaumagraph Company: *See*—
Kaumagraph Co.

Kaumagraph Co., New York, N. Y., to Kaumagraph Company, Wilmington, Del. Stamps for stamping trademarks upon textiles. 54,575; re-renewed June 26, 1946. O. G. Aug. 27. Class 50.

Kaynee Company, The: *See*—
Eisenman, Charles & Co.

Kel-Ray Knitting Mills: *See*—
Krumholz & Lichtblau.

Kennedy, P. C., & Co.: *See*—
Kennedy, Percy C.

Kennedy, Percy C., doing business as P. C. Kennedy & Co., Kinston, N. C. Preparation for the treatment of piles. 423,384; Aug. 27. Class 6.

Keyes Daren Mills Limited, to Daren Limited, Dartford, England. Bread and wheat germ flour and mixed flour containing wheat germs. 211,276; renewed Apr. 6, 1946. O. G. Aug. 27. Class 46.

Keystone Laboratories, Inc., Memphis, Tenn. Preparation for the treatment of scalp irritations and scalp itching. 423,222; Aug. 27; Serial No. 482,879; published May 21, 1946. Class 6.

Keystone Mfg. Co., Boston, Mass. Vehicular toys. 217,975; renewed Sept. 14, 1946. O. G. Aug. 27. Class 22.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Brackets. 423,227; Aug. 27; Serial No. 485,284; published June 4, 1946. Class 13.

Kinghill Laboratories: *See*—
Koenigsberger, Franz.

Koenigsberger, Franz, doing business as Orëon Parfumeur, New York, N. Y. Toilet water, body powder, face powder, etc. 423,265; Aug. 27; Serial No. 491,163; published May 21, 1946. Class 6.

Koenigsberger, Franz, doing business as Kinghill Laboratories, New York, N. Y. Shampoo, perfume, toilet water, etc. 423,276; Aug. 27; Serial No. 491,718; published May 21, 1946. Class 6.

Krumholz & Lichtblau, doing business as Kel-Ray Knitting Mills, New York, N. Y. Ladies', misses', and children's panties, step-ins, underdrawers, etc. 423,281; Aug. 27; Serial No. 491,846; published June 4, 1946. Class 39.

Kurz-Kasch Company, The, to Kurz-Kasch, Inc., Dayton, Ohio. Radio control mechanism, indicators, dials, etc. 212,943; renewed May 18, 1946. O. G. Aug. 27. Class 21.

Kurz Kasch, Inc.: *See*—
Kurz-Kasch Company, The.

La Crosse Garmet Mfg. Co., La Crosse, Wis. Children's, girls', and women's dresses. 423,293; Aug. 27; Serial No. 492,444; published May 7, 1946. Class 39.

Lane Publishing Company: *See*—
Sunset Magazine, Inc.

Lane Tobacco, Ltd., New York, N. Y. Pipes. 423,270; Aug. 27; Serial No. 491,268; published June 4, 1946. Class 8.

Lane Tobacco, Ltd., New York, N. Y. Smoking pipes. 423,271; Aug. 27; Serial No. 491,271; published June 4, 1946. Class 8.

Lang, Gerhard, Brewery, Buffalo, N. Y. Nonalcoholic, maltless beverages. 217,969; renewed Sept. 14, 1946. O. G. Aug. 27. Class 45.

Lassiter, Frederic H., New York, N. Y. Hosiery. 423,353; Aug. 27; Serial No. 495,298; published June 4, 1946. Class 39.

Lassiter, Frederick H., New York, N. Y. Hosiery. 423,277; Aug. 27; Serial No. 491,762; published June 4, 1946. Class 39.

Launderette Soap Corporation, New York, N. Y. Soap. 423,328; Aug. 27; Serial No. 493,499; published June 4, 1946. Class 4.

Leduc, Marcel, Rochester, N. Y. Deodorants. 423,317; Aug. 27; Serial No. 493,133; published May 21, 1946. Class 6.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks. 423,364; Aug. 27; Serial No. 496,033; published May 28, 1946. Class 6.

Leisure Fit Manufacturing Company, New York, N. Y., assignor to Harbor Hills Sportswear, Inc. Men's and boys' overalls, suits, overcoats, etc. 423,272; Aug. 27; Serial No. 491,415; published May 21, 1946. Class 39.

Lenhart, Ralph L., New York, N. Y. Cleaning solution for dentures and bridge work. 423,237; Aug. 27; Serial No. 488,410; published June 4, 1946. Class 4.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. 423,354; Aug. 27; Serial No. 495,310; published May 21, 1946. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. 423,355; Aug. 27; Serial No. 495,313; published May 21, 1946. Class 6.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. 423,404; Aug. 27. Class 6.

Linehan & Molo, Dubuque, Iowa. Coal. 217,018–19; renewed Aug. 24, 1946. O. G. Aug. 27. Class 1.

Linehan & Molo, Dubuque, Iowa. Coke. 217,102; renewed Aug. 24, 1946. O. G. Aug. 27. Class 1.

Linehan & Molo, Dubuque, Iowa. Coal. 217,252; renewed Aug. 31, 1946. O. G. Aug. 27. Class 1.

Lite Soap Company: *See*—
Brignall, Guy E.

Little Princess Co., Newark, N. J. Boys' and children's clothing. 423,388; Aug. 27. Class 39.

Londontown Manufacturing Co., Baltimore, Md. Raincoats and rain capes. 423,351; Aug. 27; Serial No. 494,343; published June 4, 1946. Class 39.

Long, Claude C., doing business as Tetter Mop Co., Colquitt, Ga. Medicinal preparation for the relief of athlete's foot, tetter, ringworm, etc. 423,414; Aug. 27. Class 6.

Lustrite Cosmetics, Inc., New York, N. Y. Lipsticks, perfumes, toilet water, etc. 423,290; Aug. 27; Serial No. 492,014; published May 7, 1946. Class 6.

Madsen, Julius V., doing business as Julius V. Madsen Co., Los Angeles, Calif. Bubble bath preparation. 423,282; Aug. 27; Serial No. 491,868; published May 28, 1946. Class 6.

Madsen, Julius V., Co.: *See*—
Madsen. Julius V.

Mandelbaum, Henry, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 423,424; Aug. 27. Class 39.

Mantell, Herman, New York, N. Y. Hosiery. 423,378; Aug. 27. Class 39.

Mason Paint Company, The, Louisville, Ky. Paints. 423,278; Aug. 27; Serial No. 491,765; published May 28, 1946. Class 16.

Mayer-Nock Company, The, Philadelphia, Pa. Children's dresses. 423,236; Aug. 27; Serial No. 487,852; published May 28, 1946. Class 39.

Mayer-Nock Company, The, Philadelphia, Pa. Children's dresses. 423,376; Aug. 27; Serial No. 497,318; published May 28, 1946. Class 39.

Mel Rose Mfg. Co., Dallas, Tex. Men's and boys' slacks, and slack suits. 423,295; Aug. 27; Serial No. 492,507; published June 4, 1946. Class 39.

Miami Guild Embroideries, Miami, Fla. Sportswear and resort wear. 423,421; Aug. 27. Class 39.

Michigan Alkali Company, Ford City, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Soda-ash and caustic soda. 53,349; re-renewed May 29, 1946. O. G. Aug. 27. Class 6.

Midwest Knit Goods Co., Chicago, Ill. Women's dresses. 423,397; Aug. 27. Class 39.

Millius Shoe Company, St. Louis, Mo. Shoes. 423,218; Aug. 27; Serial No. 481,488; published June 4, 1946. Class 39.

Miller Company, The, Dallas and Fort Worth, to The Hawk & Buck Co., Incorporated, Fort Worth, Tex. Overalls, pants, shirts, etc. 218,184; renewed Sept. 21, 1946. O. G. Aug. 27. Class 39.

Miller Manufacturing Co., Inc., Joplin, Mo., and New York, N. Y. Men's and boys' work shirts and work pants. 423,336; Aug. 27; Serial No. 493,690; published May 14, 1946. Class 39.

Moore, Edward J., Sons, Inc., Long Island City, N. Y. Analgesic in capsule form. 423,348; Aug. 27; Serial No. 494,102; published May 28, 1946. Class 6.

Moore & Munger, New York, N. Y. Clay sold in powdered form. 423,247; Aug. 27; Serial No. 489,917; published June 4, 1946. Class 1.

Morey Mercantile Company, The, Denver, Colo. Bread. 218,659; renewed Sept. 28, 1946. O. G. Aug. 27. Class 46.

Morton's Incorporated, Bowling Green, Ky. Ladies' apparel. 423,409; Aug. 27. Class 39.

Moxon Liniment Company: *See*—
Moxon, William T.

Moxon, William T., to Thomas T. Shoemaker, doing business as Moxon Liniment Company, Mount Clemens, Mich. Liniment. 28,086; re-renewed Apr. 7, 1946. O. G. Aug. 27. Class 6.

National Association of Housing Officials, Chicago, Ill. Publication issued monthly. 423,389; Aug. 27. Class 38.

National Biscuit Company: *See*—
Bennett, F. H., Biscuit Company.

National Coal Products Company, St. Louis, Mo. Coal, coke, petroleum coke, etc. 423,252; Aug. 27; Serial No. 490,254; published June 4, 1946. Class 1.

National Lead Company, New York, N. Y. Lead oxides, mixtures of lead oxides, and metallic lead. 423,305; Aug. 27; Serial No. 492,850; published May 28, 1946. Class 6.

National Steel Corporation, Wilmington, Del., and Weirton, W. Va. Tin plate. 423,310; Aug. 27; Serial No. 492,944; published May 21, 1946. Class 14.

Neisner Brothers, Inc., Rochester, N. Y. Women's clothing and accessories. 423,395; Aug. 27. Class 39.

Neo-Neuro Company: *See*—
Schmorr, Arthur.

Neptune Engineering Company: *See*—
Baruch, Alfred.

New York Consolidated Card Company, The, New York, N. Y., to United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. 55,508; re-renewed Aug. 14, 1946. O. G. Aug. 27. Class 22.

New York Knitting Mills, New York, N. Y. Men's, women's, boys', and girls' knitted outerwear. 423,283; Aug. 27; Serial No. 491,876; published May 7, 1946. Class 39.

New York Merchandise Co., Inc., New York, N. Y. Infants' wear. 423,412; Aug. 27. Class 39.

Noonan, T., Sons Company: *See*—
Noonan, T., & Sons Company.

Noonan, T., & Sons Company, Boston, Mass., assignor to T. Noonan Sons Company. Shampoo preparation. 423,385; Aug. 27. Class 6.

North American Cement Corporation, Albany, to North American Cement Corporation, New York, N. Y. Cement. 217,448; renewed Aug. 31, 1946. O. G. Aug. 27. Class 12.

Novelera Products, Inc., Chicago, Ill. Medicated shaving cream. 423,244; Aug. 27; Serial No. 489,344; published May 28, 1946. Class 4.

O. D. Chemical Corporation, New York, N. Y. Powdered detergent. 423,329; Aug. 27; Serial No. 493,506; published June 4, 1946. Class 4.

Oakite Products, Inc., New York, N. Y. Electrically operated apparatus. 423,226; Aug. 27; Serial No. 485,233; published June 4, 1946. Class 26.

Oldin-Dennis, New York, N. Y. Articles of clothing. 423,349; Aug. 27; Serial No. 494,108; published May 21, 1946. Class 39.

Orange Heights Fruit Association, to Orange Heights Orange Association, Corona, Calif. Fresh citrous fruits. 218,106; renewed Sept. 21, 1946. O. G. Aug. 27. Class 46.

Orange Heights Orange Association: *See*—
Orange Heights Fruit Association.

Oréon Parfumeur: *See*—
Koenigsberger, Franz.

Packard Paint & Varnish Co., Boston, Mass. Dry, paste, and ready mixed paints, etc. 423,260; Aug. 27; Serial No. 490,961; published May 28, 1946. Class 16.

Paramount Pictures Inc.: *See*—
Famous Players-Lasky Corporation.

Parfum L'Orle, Inc., New York, N. Y. Perfumes and toilet waters. 423,246; Aug. 27; Serial No. 489,757; published May 21, 1946. Class 6.

Parfums D'Artimon: *See*—
Wilde, John P.

Park & Tilford, New York, N. Y. Perfumes, toilet waters, cologne, lipstick, etc. 423,356; Aug. 27; Serial No. 495,404; published May 28, 1946. Class 6.

Parke, Davis & Company, Detroit, Mich. Pharmaceutical preparation. 423,289; Aug. 27; Serial No. 491,997; published May 21, 1946. Class 6.

Parker, Elizabeth W., Washington, D. C. Dry pulverulent detergents. 423,261; Aug. 27; Serial No. 490,962; published May 14, 1946. Class 4.

Pennshire Shirt Company, New York, N. Y. Men's dress and sport shirts. 423,234; Aug. 27; Serial No. 486,867; published May 14, 1946. Class 39.

Perkins Glue Company, Lansdale, Pa. Casein glue. 423,372; Aug. 27; Serial No. 496,858; published June 4, 1946. Class 5.

Perma-Sheen Chemical Co., Washington, Pa. Hair tonics. 423,418; Aug. 27. Class 6.

Phillips Insulated Wire Co., Pawtucket, R. I., to General Cable Corporation, New York, N. Y. Insulated wire and insulated-wire cables. 50,824; re-renewed Apr. 3, 1946. O. G. Aug. 27. Class 21.

Phillips Insulated Wire Co., Pawtucket, R. I., to General Cable Corporation, New York, N. Y. Insulated conducting-wires. 50,825; re-renewed Apr. 3, 1946. O. G. Aug. 27. Class 21.

Phillips Insulated Wire Co., Pawtucket, R. I., to General Cable Corporation, New York, N. Y. Insulated wires. 52,626; re-renewed May 15, 1946. O. G. Aug. 27. Class 21.

Phillips Petroleum Company, Bartlesville, Okla. Hydraulic brake fluid, radiator flush, radiator solder. 423,203; Aug. 27; Serial No. 468,725; published May 21, 1946. Class 6.

Phillips Petroleum Company, Bartlesville, Okla. Chemical odorant. 423,213; Aug. 27; Serial No. 479,986; published May 28, 1946. Class 6.

Pierce, Boyd J., doing business as Pierce Products, High Point, N. C. Liquid preparation. 423,266; Aug. 27; Serial No. 491,214; published May 21, 1946. Class 6.

Pierce Products: *See*—
Pierce, Boyd J.

Pormac Co., The, Bowling Green, Ky. Poultry louse killing ointment. 423,225; Aug. 27; Serial No. 485,096; published May 28, 1946. Class 6.

Prince Matchabelli, Inc., New York, N. Y. Perfumes. 423,291; Aug. 27; Serial No. 492,066; published May 21, 1946. Class 6.

Puritan Fruit Products Company, Chicago, Ill. Canned olives, peas, corn, etc. 423,400; Aug. 27. Class 46.

Quincy Laboratories, Inc., Chicago, Ill. Hair shampoo. 423,416; Aug. 27. Class 6.

Quinn, K. J., & Co., Inc., Boston, Mass. Polish. 423,311; Aug. 27; Serial No. 492,953; published May 21, 1946. Class 4.

Ragan Knitting Company, Inc., Thomasville, N. C. Hosiery for men. 423,296; Aug. 27; Serial No. 492,581; published May 7, 1946. Class 39.

Ray Distributing Company, Glens Falls, N. Y. Toys. 423,204; Aug. 27; Serial No. 471,714; published June 4, 1946. Class 22.

Redden, Carlos B., doing business as Carlos B. Redden & Company, Cincinnati, Ohio. Preparation for use in obtaining relief from sinus trouble. 423,374; Aug. 27; Serial No. 496,982; published May 28, 1946. Class 6.

Redden, Carlos B., & Company: *See*—
Redden, Carlos B.

Redman, Harold M., Pontiac, Mich. Soaps and cleansing compounds for general use. 423,249; Aug. 27; Serial No. 489,987; published June 4, 1946. Class 4.

Reeves, J. S., & Co., Nashville, Tenn. Woven cotton piece goods. 54,178; re-renewed June 19, 1946. O. G. Aug. 27. Class 42.

Reich Dress Company, Chicago, Ill. Women's and misses' dresses, coats, and suits. 423,392; Aug. 27. Class 39.

Reliable Ski Wear Corporation, Buffalo, N. Y. Children's and women's snow suits. 423,341; Aug. 27; Serial No. 493,826; published May 14, 1946. Class 39.

Rextel Company: *See*—
Sachar, Frances.

Riah Manufacturing Company, Kalamazoo, Mich. Hair tonic. 423,284; Aug. 27; Serial No. 491,886; published May 28, 1946. Class 6.

Rice Growers Association of California, Sacramento, Calif. Rice. 423,401; Aug. 27. Class 46.

Roberta Gowns Inc. New York, N. Y. Misses' and juniors' dresses. 423,303; Aug. 27; Serial No. 492,792; published May 7, 1946. Class 39.

Roberts Creations Company, New York, N. Y. Perfumes and toilet water. 423,358; Aug. 27; Serial No. 495,509; published May 21, 1946. Class 6.

Roddenbery Brothers, Cairo, Ga. Pure ribbon sugarcane sirup. 216,404; renewed Aug. 10, 1946. O. G. Aug. 27. Class 46.

Rose Sportwear, Inc., New York, N. Y. Snow suits, jackets, coats, etc. 423,312; Aug. 27; Serial No. 492,959; published June 4, 1946. Class 39.

Ross, J. O., Engineering Corporation, New York, N. Y. Ovens. 423,241; Aug. 27; Serial No. 488,976; published June 4, 1946. Class 34.

Royal Products Company: *See*—
Willenberg, Carl O.

Rumford Chemical Works, Rumford, R. I. Detergent. 423,330; Aug. 27; Serial No. 493,517; published May 28, 1946. Class.

Sachar, Frances, doing business as Rextel Company, New York, N. Y. Women's apparel. 423,214; Aug. 27; Serial No. 479,989; published May 14, 1946. Class 39.

Saranne Fifth Avenue, New York, N. Y. Ladies' and misses' suits and dresses. 423,322; Aug. 27; Serial No. 493,402; published May 14, 1946. Class 39.

Schele, Arnold J., Cle Elum, Wash., to Coty, Inc., New York, N. Y. Body deodorant. 212,163; renewed Apr. 27, 1946. O. G. Aug. 27. Class 6.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. 423,359; Aug. 27; Serial No. 495,630; published May 21, 1946. Class 6.

Schmorr, Arthur, doing business as Neo-Neuro Company, New York, N. Y. Medicinal compounds. 423,240; Aug. 27; Serial No. 488,671; published May 21, 1946. Class 6.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Arch supports. 423,211; Aug. 27; Serial No. 478,356; published Mar. 20, 1945. Class 44.

Scott, Harry S., Inc.: *See*—
Bridges, John S.

Sears, Roebuck and Co., Chicago, Ill. Stock stalls. 423,212; Aug. 27; Serial No. 479,530; published June 4, 1946. Class 12.

Selle, H. W., & Co., to American Excelsior Corporation, Chicago, Ill. Packing pads. 217,553; renewed Sept. 7, 1946. O. G. Aug. 27. Class 50.

Sencindiver, Judson H., doing business as Judson Laboratories, Cockeysville, Md. Antiseptic ointment. 423,259; Aug. 27; Serial No. 490,907; published May 28, 1946. Class 6.

Shirley Fabrics Corp., New York, N. Y. Dresses, aprons, slips, etc. 423,306; Aug. 27; Serial No. 492,863; published May 28, 1946. Class 39.

Shirley Fabrics Corp., New York, N. Y. Dresses, aprons, playsuits, etc. 423,307; Aug. 27; Serial No. 492,864; published May 28, 1946. Class 39.

Shoemaker, Thomas T.: *See*—
Moxon, William T.

Siegel, Joseph H., Inc., New York, N. Y. Hosiery, briefs, shorts, etc. 423,393; Aug. 27. Class 39.

Simplex Piston Ring Company, The: *See*—
Solenberger Piston Ring Company, The.

Simplex Products Corporation: *See*—
Solenberger Piston Ring Company, The.

Simplex Products Corporation, Cleveland, Ohio. Metallic piston rings and expanders therefor. 423,396; Aug. 27. Class 35.

Six Little Tailors Co., Boston, Mass. Men's and boys' topcoats, overcoats, sportscoats, etc. 423,223; Aug. 27; Serial No. 483,992; published May 14, 1946. Class 39.

Solenberger Piston Ring Company, The, Cleveland, Ohio, now by change of name The Simplex Piston Ring Company, to Simplex Products Corporation. Piston rings. 211,249; renewed Apr. 6, 1946. O. G. Aug. 27. Class 35.

Soman, David A., doing busines as Danax Company, New York, N. Y. Ladies' and misses' slips; pajamas; night gowns; etc. 423,331; Aug. 27; Serial No. 493,519; published May 21, 1946. Class 39.

Soman, David A., doing business as Danax Company, New York, N. Y. Clothing. 423,419; Aug. 27. Class 39.

Southern Properties, Inc., Dallas, Tex. Ice. 216,494; renewed Aug. 10, 1946. O. G. Aug. 27. Class 1.

South Texas Cotton Oil Company, Houston, Tex. Turpentine. 423,245; Aug. 27; Serial No. 489,617; published May 28, 1946. Class 16.

Spalding, A. G., & Bros., New York, N. Y., to A. G. Spalding & Bros. Inc., Chicopee, Mass. Golf balls. 52,125; re-renewed May 1, 1946. O. G. Aug. 27. Class 22.

Spalding, A. G., & Bros. Inc.: *See*—
Spalding, A. G., & Bros.

Spiegel, Inc., Chicago, Ill. Milk pails and milk cans. 423,326; Aug. 27; Serial No. 493,464; published June 4, 1946. Class 2.

Squibb, E. R., & Sons, New York, N. Y. Antibacterial and analgesic preparations. 423,333; Aug. 27; Serial No. 493,571; published May 21, 1946. Class 6.

Strand Reneau Co., Lynwood, Calif. Wall, tile, and glass cleaner. 423,273; Aug. 27; Serial No. 491,436; published May 28, 1946. Class 4.

Strassburger, Richard, New York, N. Y. Lip-salve. 423,383; Aug. 27. Class 6.

Sun Chemical Corporation: *See*—
Fuchs & Lang Manufacturing Company, The.
Sigmund Ullman Company.

Sun Oil Company, Philadelphia, Pa. Pre-wax cleaner. 423,369; Aug. 27; Serial No. 496,345; published May 28, 1946. Class 4.

Sunset Magazine, Inc., to Lane Publishing Company, San Francisco, Calif. Monthly magazine. 209,499; renewed Feb. 23, 1946. O. G. Aug. 27. Class 38.

Taintor Company, The, New York, N. Y. Paris white. 423,207–8; Aug. 27; Serial Nos. 477,985–6; published May 28, 1946. Class 16.

Tamerlane, Van, Sacramento, Calif. Toilet preparations. 423,405; Aug. 27. Class 6.

Taylor, William G., to J. R. Blackwell, Richmond, Va. Lithia water. 50,861; re-renewed Apr. 3, 1946. O. G. Aug. 27. Class 45.

Temple Watch Company, New York, N. Y. Watches and watch movements. 423,215; Aug. 27; Serial No. 481,195; published May 28, 1946. Class 27.

Tetter Mop Co.: *See*—
Long, Claude C.

Thompson, Wm. T., doing business as Wm. T. Thompson Co., Los Angeles, Calif. Vitamin tablet. 423,285; Aug. 27; Serial No. 491,897; published May 28, 1946. Class 6.

Thompson, Wm. T., Co.: *See*—
Thompson, Wm. T.

Torrey & King, Independence, Mo. Lotion for the relief of athlete's foot, exzema, and odorous feet. 423,373; Aug. 27; Serial No. 496,934; published May 28, 1946. Class 6.

Tuvaché Co., New York, N. Y. Perfume, skin perfume, cologne, and bath oil. 423,368; Aug. 27; Serial No. 496,285; published May 28, 1946. Class 6.

Twin City Shellac Co. Inc., Brooklyn, N. Y. Wax cleaner and polish. 423,250; Aug. 27; Serial No. 490,152; published May 28, 1946. Class 16.

Ullman, Sigmund, Company, to Sun Chemical Corporation, New York, N. Y. Letter-press or typographic inks. 211,825; renewed Apr. 20, 1946. O. G. Aug. 27. Class 11.

Unexcelled Manufacturing Company, Inc., New York, N. Y. Firecrackers. 216,679; renewed Aug. 17, 1946. O. G. Aug. 27. Class 9.

United States Playing Card Co., The, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 55,100; re-renewed Aug. 7, 1946. O. G. Aug. 27. Class 22.

United States Playing Card Co., The, to The United States Playing Card Company, Cincinnati, Ohio. Playing-cards. 55,524; re-renewed Aug. 24, 1946. O. G. Aug. 27. Class 22.

United States Playing Card Company, The: *See*—
New York Consolidated Playing Card Company, The.
United States Playing Card Co., The.

Universal Corporation, Dallas, Tex. Metal windows. 423,219; Aug. 27; Serial No. 481,726; published June 4, 1946. Class 12.

Universal Zonolite Insulation Co.: *See*—
Zonolite Company, The.

Vandam, Albert H., Co., Inc., New York, N. Y. Ladies', misses', and girls' dresses, blouses, playsuits, etc. 423,406; Aug. 27. Class 39.

Vassilatos, William T., doing business as Anchor Shoe Polish Mfg. Co., Chicago, Ill. Shoe polish and shoe dressing. 423,256; Aug. 27; Serial No. 490,773; published May 28, 1946. Class 4.

Villarreal, Elizabeth, Chicago, Ill. Tooth powder. 423,239; Aug. 27; Serial No. 488,629; published May 21, 1946. Class 6.

Walker Vitamin Products, Inc., Mount Vernon, N. Y. Tablets containing mannitol hexanitrate and thiamine hydrochloride. 423,380; Aug. 27. Class 6.

Waltsade Mfg. Co., New York, N. Y. Furniture polish. 423,323; Aug. 27; Serial No. 493,411; published May 28, 1946. Class 16.

Warshaw, Philip H., Inc., to William Amsel, New York, N. Y. Hair tonics, toilet water, hair oils, etc. 217,138; renewed Aug. 24, 1946. O. G. Aug. 27. Class 6.

Watkins, J. R., Company, The, Winona, Minn. Deodorant powder, dusting powder, face powder, etc. 423,232; Aug. 27; Serial No. 486,837; published May 28, 1946. Class 6.

Webb, A. M., & Co., New York, N. Y. Infants' and children's knitted and/or woven wearing apparel. 423,377; Aug. 27; Serial No. 498,099; published June 4, 1946. Class 39.

Weber, F., Co., Philadelphia, Pa. Pantographs, planimeters, slide rules, etc. 218,173; renewed Sept. 21, 1946. O. G. Aug. 27. Class 26.

Weber, F., Co., Philadelphia, Pa. Waterproof india ink, drawing ink, writing and marking ink, etc. 218,594; Sept. 28, 1946. O. G. Aug. 27. Class 11.

Weber, F., Co., Philadelphia, Pa. Artists' colors. 218,657; renewed Sept. 28, 1946. O. G. Aug. 27. Class 16.

Webster, William A., Company, The, Memphis, Tenn. Face powders, face creams, face packs, etc. 218,128; renewed Sept. 21, 1946. O. G. Aug. 27. Class 6.

Wells, S. C., & Company, Leroy, N. Y. Liquid preparation. 423,297–8; Aug. 27; Serial Nos. 492,604–5; published May 28, 1946. Class 6.

Western Shade Cloth Company, The. Window shades and rollers. 423,379; Aug. 27. Class 32.

Whellan, Jimmy, Sons, Inc., New York, N. Y. Ladies' and misses' suits, coats, and sport coats. 423,342; Aug. 27; Serial No. 493,863; published May 21, 1946. Class 39.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candies. 218,242; renewed Sept. 21, 1946. O. G. Aug. 27. Class 46.
Wilde, John P., doing business as Parfums D'Artimon, New York, N. Y. Perfume, toilet water, eau de cologne, etc. 423,360; Aug. 27; Serial No. 495,644; published May 21, 1946. Class 6.
Willenberg, Carl O., doing business as Royal Products Company, Los Angeles, Calif. Weather and flame-resistive, adhesive liquid, asphaltic-asbestos, paint-like coatings. 423,254; Aug. 27; Serial No. 490,614; published May 28, 1946. Class 16.
Wollensak Optical Company, Rochester, N. Y. Lens cleaning fluid. 423,251; Aug. 27; Serial No. 490,221; published May 21, 1946. Class 4.
Wuest, Adam, to Adam Wuest, Inc., Cincinnati, Ohio. Mattresses, box springs, and pillows. 218,228; renewed Sept. 21, 1946. O. G. Aug. 27. Class 32.
Wuest, Adam, Inc.: *See*—
Wuest, Adam.
Wyandotte Chemicals Corporation: *See*—
Ford, J. B., Company, The.
Michigan Alkali Company.
Wyeth Incorporated, Philadelphia, Pa. Troches containing penicillin. 423,365; Aug. 27; Serial No. 496,057; published May 21, 1946. Class 6.
Yale Fabrics Corp., New York, N. Y. Men's and boys' dress and sport shirts. 423,300; Aug. 27; Serial No. 492,670; published May 7, 1946. Class 39.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Steel sheets, plates, and bars. 211,081; renewed Apr. 6, 1946. O. G. Aug. 27. Class 14.
Youngstown Steel and Tube Company, Youngstown, Ohio. Steel plates. 214,586; renewed June 29, 1946. O. G. Aug. 27. Class 14.
Zion Industries, Inc., Zion, Ill. Candies. 423,410; Aug. 27. Class 46.
Zonolite Company, The, Libby, Mont., to Universal Zonolite Insulation Co., Chicago, Ill. Natural mineral substance. 216,862; renewed Aug. 24 ,1946. O. G. Aug. 27. Class 1.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Clay sold in powdered form. Moore & Munger. 423,247; Aug. 27; Serial No. 489,917; published June 4, 1946.
Coal. Holmes-Darst Coal Corporation. 423,280; Aug. 27; Serial No. 491,832; published June 4, 1946.
Coal. Linehan & Molo. 217,018–19; renewed Aug. 24, 1946. O. G. Aug. 27.
Coal. Linehan & Molo. 217,252; renewed Aug. 31, 1946. O. G. Aug. 27.
Coal, coke, petroleum coke, etc. National Coal Products Company. 423,252; Aug. 27; Serial No. 490,254; published June 4, 1946.
Coal, graphite, core binder, etc., Sea. Chamberlain Co., Inc. 217,126; renewed Aug. 24, 1946. O. G. Aug. 27.
Coke. Linehan & Molo. 217,102; renewed Aug. 24, 1946. O. G. Aug. 27.
Ice. Southern Properties, Inc. 216,494; renewed Aug. 10, 1946. O. G. Aug. 27.
Mineral substance, Natural. Zonolite Company. 216,862; renewed Aug. 24, 1946. O. G. Aug. 27.
Resins, Raw thermosetting. B. F. Goodrich Company. 423,275; Aug. 27; Serial No. 491,562; published June 4, 1946.

CLASS 2

Pails and milk cans, Milk. Spiegel, Inc. 423,326; Aug. 27; Serial No. 493,464; published June 4, 1946.

CLASS 4

Cleaner, Pre-wax. Sun Oil Company. 423,369; Aug. 27; Serial No. 496,345; published May 28, 1946.
Cleaner, Wall, tile and glass. Strand Reneau Co. 423,273; Aug. 27; Serial No. 491,436; published May 28, 1946.
Cleaners, rug shampoo cleaners, window cleaners, etc., Dry. Durite Corporation. 423,268; Aug. 27; Serial No. 491,247; published June 4, 1946.
Cleaning fluid, Lens. Wollensak Optical Company. 423,251; Aug. 27; Serial No. 490,221; published May 21, 1946.
Cream, facial and bath soaps, Shaving. John Frederics, Inc. 423,258; Aug. 27; Serial No. 490,806; published May 14, 1946.
Cream, Medicated shaving. Novelera Products, Inc. 423,244; Aug. 27; Serial No. 489,344; published May 28, 1946.
Detergent. Rumford Chemical Works. 423,330; Aug. 27; Serial No. 493,517; published May 28, 1946.
Detergent compound. R. S. Ghiselin. 423,335; Aug. 27; Serial No. 493,678; published June 4, 1946.
Detergent for general cleaning purposes, Synthetic. S. D. Embree. 423,269; Aug. 27; Serial No. 491,250; published June 4, 1946.
Detergent, Powdered. O. D. Chemical Corporation. 423,329; Aug. 27; Serial No. 493,506; published June 4, 1946.
Detergents, Dry pulverulent. E. W. Parker. 423,261; Aug. 27; Serial No. 490,962; published May 14, 1946.
Dry-cleaning and water-repellent compound. Daizee Products Co. 423,299; Aug. 27; Serial No. 492,617; published May 14, 1946.
Grits and grinding wheels and grinding disks, Abrasive. Connecticut Research Foundation. 423,248; Aug. 27; Serial No. 489,942; published May 28, 1946.
Polish, and shoe dressing, Shoe. W. T. Vassilatos. 423,256; Aug. 27; Serial No. 490,773; published May 28, 1946.
Polishes acting as dirt and grease removers and cleaning materials. E. I. du Pont de Nemours and Company. 213,050; renewed May 18, 1946. O. G. Aug. 27.
Polishing cloths, Treated. Callaway Mills. 423,313; Aug. 27; Serial No. 493,039; published June 4, 1946.
Razor strops. R. R. Edwards. 217,463; renewed Aug. 31, 1946. O. G. Aug. 27.
Soap. Fels & Co. 54,776; re-renewed July 31, 1946. O. G. Aug. 27.
Soap. Fels & Company. 55,478; re-renewed Aug. 14, 1946. O. G. Aug. 27.
Soap. Launderette Soap Corporation. 423,328; Aug. 27; Serial No. 493,499; published June 4, 1946.
Soap, Toilet. Colgate-Palmolive-Peet Company. 423,320; Aug. 27; Serial No. 493,251; published June 4, 1946.
Soap, toilet soap, scented soap, etc., Washing. Cristobal Balenciaga Elizaguirre. 423,262; Aug. 27; Serial No. 491,073; published May 14, 1946.
Soaps. R. Hudnut. 423,235; Aug. 27; Serial No. 487,839; published June 4, 1946.
Soaps and cleansing compounds for general use. H. M. Redman. 423,249; Aug. 27; Serial No. 489,987; published June 4, 1946.
Solution for dentures and bridge work, Cleaning. R. L. Lenhart. 423,237; Aug. 27; Serial No. 488,410; published June 4, 1946.
Solvent and cleaner for removing tar, wax, oil, etc., Liquid. General Solvents Sales Company, Inc. 423,274; Aug. 27; Serial No. 491,473; published June 4, 1946.

CLASS 5

Glue, Casein. Perkins Glue Company. 423,372; Aug. 27; Serial No. 496,858; published June 4, 1946.
Sea coal, graphite, core binder, etc. Chamberlain Co., Inc. 217,126; renewed Aug. 24, 1946. O. G. Aug. 27.

CLASS 6

Analgesic, in capsule form. Edward J. Moore Sons, Inc. 423,348; Aug. 27; Serial No. 494,102; published May 28, 1946.
Anesthetics. Farbwerke vorm. Meister Lucius & Brüning. 55,744; re-renewed Aug. 21, 1946. O. G. Aug. 27.
Antibacterial and analgesic preparations. E. R. Squibb & Sons. 423,333; Aug. 27; Serial No. 493,571; published May 21, 1946.
Astringent and acidulant. N. N. Durham. 423,242; Aug. 27; Serial No. 488,994; published May 21, 1946.
Bath preparation, Bubble. J. V. Madsen. 423,282; Aug. 27; Serial No. 491,868; published May 28, 1946.
Chemical odorant. Phillips Petroleum Company. 423,213; Aug. 27; Serial No. 479,986; published May 28, 1946.
Chemicals, medicines, and pharmaceutical preparations. Aktiebolaget Yvy-Fabriken. 211,214; renewed Apr. 6, 1946. O. G. Aug. 27.
Cosmetic preparations. Mary Dunhill Limited. 423,366; Aug. 27; Serial No. 496,214; published May 28, 1946.
Deodorant, Body. A. J. Schele. 212,163; renewed Apr. 27, 1946. O. G. Aug. 27.
Deodorant stick. C. A. Futter. 423,334; Aug. 27; Serial No. 493,674; published May 21, 1946.
Deodorants. M. Leduc. 423,317; Aug. 27; Serial No. 493,133; published May 21, 1946.
Ear drops for dogs. F. B. Erwin. 423,390; Aug. 27.
Eau de cologne, Irresistible, Inc. 423,327; Aug. 27; Serial No. 493,489; published May 21, 1946.
Fluid, radiator flush, radiator solder, Hydraulic brake. Phillips Petroleum Company. 423,203; Aug. 27; Serial No. 468,725; published May 21, 1946.
Fluxes employed in welding, brazing, soldering, etc. Eutectic Welding Alloys Corporation. 423,367; Aug. 27; Serial No. 496,227; published May 28, 1946.
Hemostatic. Ayerst, McKenna & Harrison Limited. 423,375; Aug. 27; Serial No. 497,060; published May 28, 1946.
Liniment. W. T. Moxon. 28,086; re-renewed Apr. 7, 1946. O. G. Aug. 27.

Lipstick, rouge, face powder, etc. Consolidated Cosmetics. 423,324; Aug. 27; Serial No. 493,429; published May 21, 1946.
Lipsticks, perfumes, toilet water, etc. Lustrite Cosmetics, Inc. 423,290; Aug. 27; Serial No. 492,014; published May 7, 1946.
Liquid preparation. B. J. Pierce. 423,266; Aug. 27; Serial No. 491,214; published May 21, 1946.
Lip-salve. R. Strassburger. 423,383; Aug. 27.
Lipsticks. Lehn & Fink Products Corporation. 423,364; Aug. 27; Serial No. 496,033; published May 28, 1946.
Liquid preparation. S. C. Wells & Company. 423,297–8; Aug. 27; Serial Nos. 492,604–5; published May 28, 1946.
Lotion, cologne, hair tonic, etc., Face. Hickok Manufacturing Company. 423,407–8; Aug. 27.
Lotion, face lotion, cleansing cream, etc., Eye. B. Backman. 423,394; Aug. 27.
Lotion for the relief of athlete's foot, eczema, and odorous feet. Torrey & King. 423,373; Aug. 27; Serial No. 496,934; published May 28, 1946.
Lye. B. T. Babbitt, Inc. 423,370–1; Aug. 27; Serial No. 496,597–8; published May 28, 1946.
Medicinal compounds. A. Schmorr. 423,240; Aug. 27; Serial No. 488,671; published May 21, 1946.
Medicinal preparation. Schering Corporation. 423,359; Aug. 27; Serial No. 495,630; published May 21, 1946.
Medicinal preparation for the relief of athlete's foot, tetter, ringworm, etc. C. C. Long. 423,414; Aug. 27.
Oil, Processed. Industrial Oil Products Corporation. 423,352; Aug. 27; Serial No. 495,236; published May 21, 1946.
Oils, Raw and treated animal, vegetable, and mineral. Dorward & Sons Co. 423,345–6; Aug. 27; Serial No. 493,949–50; published May 28, 1946.
Ointment, Antiseptic. J. H. Sencindiver. 423,259; Aug. 27; Serial No. 490,907; published May 28, 1946.
Ointment, Poultry louse killing. Pormac Co. 423,225; Aug. 27; Serial No. 485,096; published May 28, 1946.
Oxides, mixtures of lead oxides and metallic lead, Lead. National Lead Company. 423,305; Aug. 27; Serial No. 492,850; published May 28, 1946.
Parasiticides. California Spray-Chemical Corporation. 423,264; Aug. 27; Serial No. 491,151; published May 21, 1946.
Perfume. George W. Button Co. 423,316; Aug. 27; Serial No. 493,100; published May 21, 1946.
Perfume, skin perfume, cologne and bath oil. Tuvaché Co. 423,368; Aug. 27; Serial No. 496,285; published May 28, 1946.
Perfume, toilet water, eau de cologne, etc. J. P. Wilde. 423,360; Aug. 27; Serial No. 495,644; published May 21, 1946.
Perfumes. Bonwit Teller, Inc. 423,216; Aug. 27; Serial No. 481,264; published May 28, 1946.
Perfumes. B. A. Foster. 423,210; Aug. 27; Serial No. 478,211; published May 28, 1946.
Perfumes. Prince Matchabelli, Inc. 423,291; Aug. 27; Serial No. 492,066; published May 21, 1946.
Perfumes and toilet water. M. Babani. 423,361; Aug. 27; Serial No. 495,650; published May 21, 1946.
Perfumes and toilet waters. Avon Products, Inc. 423,279; Aug. 27; Serial No. 491,796; published May 28, 1946.
Perfumes and toilet water. Roberts Creations Company. 423,358; Aug. 27; Serial No. 495,509; published May 21, 1946.
Perfumes and toilet waters. Etablissements Rigaud, Inc. 423,224; Aug. 27; Serial No. 484,167; published May 21, 1946.
Perfumes and toilet waters. Parfum L'Orle, Inc. 423,246; Aug. 27; Serial No. 489,757; published May 21, 1946.
Perfumes, toilet waters, lipsticks, etc. Belcano Company. 423,337; Aug. 27; Serial No. 493,729; published May 28, 1946.
Perfumes, toilet waters, lipsticks, etc. Belcano Company. 423,347; Aug. 27; Serial No. 494,010; published May 28, 1946.
Perfumes, toilet waters, rouge, etc. F. Geille. 423,287; Aug. 27; Serial No. 491,967; published May 21, 1946.
Perfumes, toilet waters, rouge, etc. F. Geille. 423,288; Aug. 27; Serial No. 491,969; published May 21, 1946.
Perfumes, toilet waters, cologne, lipsticks, etc. Park & Tilford. 423,356; Aug. 27; Serial No. 495,404; published May 28, 1946.
Pharmaceutical preparation. Parke, Davis & Company. 423,289; Aug. 27; Serial No. 491,997; published May 21, 1946.
Polish. K. J. Quinn & Co., Inc. 423,311; Aug. 27; Serial No. 492,953; published May 21, 1946.
Powder, dusting powder, face powder, etc., Deodorant. J. R. Watkins Company. 423,233; Aug. 27; Serial No. 486,837; published May 28, 1946.
Powder, face makeup in liquid form, creams for the hand and face, etc., Face. Associated Products, Inc. 423,357; Aug. 27; Serial No. 495,438; published May 28, 1946.
Powder, lipstick, hand cream, etc., Face. Consolidated Cosmetics. 423,398; Aug. 27.
Powder, Tooth. E. Villarreal. 423,239; Aug. 27; Serial No. 488,629; published May 21, 1946.
Powders, face creams, face packs, etc., Face. William A. Webster Company. 218,128; renewed Sept. 21, 1946. O. G. Aug. 27.
Preparation for cleaning and lubricating ferrotype tins. Ferolene Sales Co. 213,698; renewed June 1, 1946. O. G. Aug. 27.
Preparation for the treatment of piles. P. C. Kennedy & Co. 423,384; Aug. 27, 1946.
Preparation for the treatment of scalp irritations and scalp itching. Keystone Laboratories, Inc. 423,222; Aug. 27; Serial No. 482,879; published May 21, 1946.
Preparation for treatment and alleviation of fungus skin infections in dogs. F. B. Erwin. 423,391; Aug. 27.
Preparation for use in obtaining relief from sinus trouble. C. B. Redden. 423,374; Aug. 27; Serial No. 496,982; published May 28, 1946.
Preparation used in the treatment of athlete's foot. A. E. Illes Company. 423,362; Aug. 27; Serial No. 495,743; published May 21, 1946.
Purgatives. C-Y Laboratories, Inc. 423,338; Aug. 27; Serial No. 493,740; published May 21, 1946.
Shampoo. G. E. Brignall. 216,364; renewed Aug. 10, 1946. O. G. Aug. 27.
Shampoo. Cyeton Products. 423,238; Aug. 27; Serial No. 488,515; published May 21, 1946.
Shampoo, Hair. Quincy Laboratories, Inc. 423,416; Aug. 27.
Shampoo, perfume, toilet water, etc. F. Koenigsberger. 423,276; Aug. 27; Serial No. 491,718; published May 21, 1946.
Shampoo preparation. T. Noonan & Sons Company. 423,385; Aug. 27.
Soda-ash and caustic soda. Michigan Alkali Company. 53,349; re-renewed May 29, 1946. O. G. Aug. 27.
Solution, Photographic developing. Grant Photo Products, Inc. 423,350; Aug. 27; Serial No. 494,214; published May 28, 1946.
Solutions, Waving and neutralizing. Belfaire Cosmetics, Inc. 423,255; Aug. 27; Serial No. 490,626; published May 21, 1946.
Sterile aqueous solution of 1-histidine monohydrochloride. Horton & Converse. 423,343; Aug. 27; Serial No. 493,873; published May 21, 1946.
Tablet, Vitamin. Wm. T. Thompson. 423,285; Aug. 27; Serial No. 491,897; published May 28, 1946.
Tablets containing Mannitol Hexanitrate and Thiamine Hydrochloride. Walker Vitamin Products, Inc. 423,380; Aug. 27.
Toilet preparations, perfumery and cosmetics. Les Parfums de Dana, Inc. 423,354; Aug. 27; Serial No. 495,310; published May 21, 1946.
Toilet preparations, perfumery and cosmetics. Les Parfums de Dana, Inc. 423,355; Aug. 27; Serial No. 495,313; published May 21, 1946.
Toilet preparations, perfumery and cosmetics. Les Parfums de Dana, Inc. 423,404; Aug. 27.
Toilet preparations. V. Tamerlane. 423,405; Aug. 27.
Toilet water, body powder, face powder, etc. F. Koenigsberger. 423,265; Aug. 27; Serial No. 491,163; published May 21, 1946.
Tonic, Hair. Riah Manufacturing Company. 423,284; Aug. 27; Serial No. 491,886; published May 28, 1946.
Tonics, Hair. Perma-Sheen Chemical Co. 423,418; Aug. 27.
Tonics, toilet water, hair oils, etc., Hair. Philip H. Warshaw, Inc. 217,138; renewed Aug. 24, 1946. O. G. Aug. 27.
Troches containing penicillin. Wyeth Incorporated. 423,365; Aug. 27; Serial No. 496,057; published May 21, 1946.
Vitamin B complex in dosage forms, Orally active estrogenic placental hormones. Ayerst, McKenna & Harrison Limited. 423,221; Aug. 27; Serial No. 482,607; published May 14, 1946.

CLASS 8

Pipes. Lane Tobacco, Ltd. 423,270; Aug. 27; Serial No. 491,268; published June 4, 1946.
Pipes, Smoking. Lane Tobacco, Ltd. 423,271; Aug. 27; Serial No. 491,271; published June 4, 1946.

CLASS 9

Firecrackers. Unexcelled Manufacturing Company, Inc. 216,679; renewed Aug. 17, 1946. O. G. Aug. 27.

CLASS 11

Ink, drawing ink, writing and marking ink, etc., Waterproof india. F. Weber Co. 218,594; renewed Sept. 28, 1946. O. G. Aug. 27.
Ink, Lithographic. Fuchs & Lang Manufacturing Company. 28,026; re-renewed Mar. 31, 1946. O. G. Aug. 27.
Inks, Letter-press or typographic. Sigmund Ullman Company. 211,825; renewed Apr. 20, 1946. O. G. Aug. 27.

CLASS 12

Brick. Acme Brick Company. 216,538; renewed Aug. 10, 1946. O. G. Aug. 27.
Cement. North American Cement Corporation. 217,448; renewed Aug. 31, 1946. O. G. Aug. 27.
Insulation. R. F. Hlavaty. 423,232; Aug. 27; Serial No. 485,771; published Nov. 6, 1945.
Plaster. Beaver Products Company, Inc. 212,152; renewed Apr. 27, 1946. O. G. Aug. 27.

Stalls, Stock. Sears, Roebuck and Co. 423,212; Aug. 27; Serial No. 479,530; published June 4, 1946.
Windows, Metal. Universal Corporation. 423,219; Aug. 27; Serial No. 481,726; published June 4, 1946.

CLASS 13

Brackets. Walter Kidde & Company, Inc. 423,227; Aug. 27; Serial No. 485,284; published June 4, 1946.
Chains and chain products and hooks, rings, etc. Chain Products Company. 217,347; renewed Aug. 31, 1946. O. G. Aug. 27.
Repair-links for link chains. Diamond Chain & Manufacturing Co. 54,703; re-renewed June 26, 1946. O. G. Aug. 27.

CLASS 14

Steel, Graphite. A. Baruch. 423,302; Aug. 27; Serial No. 492,760; published May 21, 1946.
Steel in the form of bars, rods, blocks and discs, High speed. Firth Sterling Steel Company. 423,231; Aug. 27; Serial No. 485,769; published May 21, 1946.
Steel plates. Youngstown Steel and Tube Company. 214,586; renewed June 29, 1946. O. G. Aug. 27.
Steel sheets, plates, and bars. Youngstown Sheet and Tube Company. 211,081; renewed Apr. 6, 1946. O. G. Aug. 27.
Tin plate. National Steel Corporation. 423,310; Aug. 27; Serial No. 492,944; published May 21, 1946.

CLASS 16

Artists' colors. F. Weber Co. 218,657; renewed Sept. 28, 1946. O. G. Aug. 27.
Caustic for removing paint and enamel, Prepared. American Chemical Paint Company. 216,081; renewed Aug. 3, 1946. O. G. Aug. 27.
Cleaner and polish, Wax. Twin City Shellac Co. Inc. 423,250; Aug. 27; Serial No. 490,152; published May 28, 1946.
Coatings, Weather and flame-resistive, adhesive liquid, asphaltic-asbestos, paint-like. C. O. Willenberg. 423,254; Aug. 27; Serial No. 490,614; published May 28, 1946.
Paint and enamel remover. J. B. Ford Company. 213,279; renewed May 25, 1946. O. G. Aug. 27.
Paint pigments. E. I. du Pont de Nemours and Company. 423,318–19; Aug. 27; Serial Nos. 493,173–4; published May 28, 1946.
Paint, Waterproof structural and roof. Atlantic Refining Company. 52,055; re-renewed May 1, 1946. O. G. Aug. 27.
Paints. Mason Paint Company. 423,278; Aug. 27; Serial No. 491,765; published May 28, 1946.
Paints, Dry, paste, and ready mixed. Packard Paint & Varnish Co. 423,260; Aug. 27; Serial No. 490,961; published May 28, 1946.
Paris white. Taintor Company. 423,207–8; Aug. 27; Serial Nos. 477,985–6; published May 28, 1946.
Polish, Furniture. Waltsade Mfg. Co. 423,323; Aug. 27; Serial No. 493,411; published May 28, 1946.
Turpentine. South Texas Cotton Oil Company. 423,245; Aug. 27; Serial No. 489,617; published May 28, 1946.

CLASS 17

Cigars. Michael Ibold, Inc. 218,009; renewed Sept. 14, 1946. O. G. Aug. 27.
Cigars. Arcadio Rosas. 423,422; Aug. 27.
Cigars, cigarettes, smoking and chewing tobaccos. Cresca Company, Incorporated. 218,268; renewed Sept. 21, 1946. O. G. Aug. 27.

CLASS 19

Repair and replacement parts. Automotive Specialty Corporation. 212,467; renewed May 4, 1946. O. G. Aug. 27.
Wagons and parts thereof. International Harvester Company. 217,030; renewed Aug. 24, 1946. O. G. Aug. 27.

CLASS 21

Cables, armored cords, and flexible metallic conduits, Armored. Detroit Insulated Wire Company. 215,327; renewed July 13, 1946. O. G. Aug. 27.
Conducting-wires, Insulated. Phillips Insulated Wire Co. 50,825; re-renewed Apr. 3, 1946. O. G. Aug. 27.
Drills, and twist-drill grinders, portable electric screw, bolt and nut drivers, etc., Portable electric. Black and Decker Manufacturing Company. 216,294; renewed Aug. 10, 1946. O. G. Aug. 27.
Electrical apparatus, machines and supplies. American Bosch Magneto Corporation. 211,829; renewed Apr. 20, 1946. O. G. Aug. 27.
Radio control mechanism, indicators, dials, etc. Kurz-Kasch Company. 212,943; renewed May 18, 1946. O. G. Aug. 27.
Switches, Rotary snap. Arrow Electric Company. 217,895; renewed Sept. 14, 1946. O. G. Aug. 27.
Wire and insulated-wire cables, Insulated. Phillips Insulated Wire Co. 50,824; re-renewed Apr. 3, 1946. O. G. Aug. 27.
Wires, Insulated. Phillips Insulated Wire Co. 52,626; re-renewed May 15, 1946. O. G. Aug. 27.

CLASS 22

Amusement devices. I. Altman. 423,403; Aug. 27.
Golf balls. A. G. Spalding & Bros. 52,125; re-renewed May 1, 1946. O. G. Aug. 27.
Playing-cards. New York Consolidated Company, The. 55,508; re-renewed Aug. 14, 1946. O. G. Aug. 27.
Playing-cards. United States Playing Card Co. 55,100; re-renewed Aug. 7, 1946. O. G. Aug. 27.
Playing-cards. United States Playing Card Co. 55,524; re-renewed Aug. 14, 1946. O. G. Aug. 27.
Toy guns and toy pistols. Daisy Manufacturing Company. 423,363; Aug. 27; Serial No. 496,014; published June 4, 1946.
Toys. Ray Distributing Company. 423,204; Aug. 27; Serial No. 471,714; published June 4, 1946.
Toys, Vehicular. Keystone Mfg. Co. 217,975; renewed Sept. 14, 1946. O. G. Aug. 27.

CLASS 23

Machines for cutting keyseats. E. A. Grenelle. 216,291; renewed Aug. 10, 1946. O. G. Aug. 27.

CLASS 26

Cameras and parts therefor, Motion picture. Franklin Photographic Industries. 423,206; Aug. 27; Serial No. 473,599; published June 4, 1946.
Electrically operated apparatus. Oakite Products, Inc. 423,226; Aug. 27; Serial No. 485,233; published June 4, 1946.
Moving pictures. Famous Players-Lasky Corporation. 211,470; renewed Apr. 13, 1946. O. G. Aug. 27.
Pantographs, planimeters, slide rules, etc. F. Weber Co. 218,173; renewed Sept. 21, 1946. O. G. Aug. 27.
Regulating apparatus, Thermostatically controlled. Coleman Company, Inc. 423,229; Aug. 27; Serial No. 485,328; published Oct. 23, 1945.

CLASS 27

Clocks. E. Ingraham Company. 214,402; renewed June 22, 1946. O. G. Aug. 27.
Watches and watch movements. Temple Watch Company. 423,215; Aug. 27; Serial No. 481,195; published May 28, 1946.

CLASS 32

Mattresses, box springs, and pillows. A. Wuest. 218,228; renewed Sept. 21, 1946. O. G. Aug. 27.
Shades and rollers, Window. Western Shade Cloth Company. 423,379; Aug. 27.

CLASS 34

Air conditioners. F. Jaden Manufacturing Co. Inc. 423,230; Aug. 27; Serial No. 485,508; published June 4, 1946.
Burner control apparatus and parts thereof, Differential expansion thermally actuated fluid. Burkay Co. 423,257; Aug. 27; Serial No. 490,786; published June 4, 1946.
Lighters of the pocket type, Pyrophoric cigarette and cigar. Flame Thrower Co. 423,309; Aug. 27; Serial No. 492,913; published June 4, 1946.
Ovens. J. O. Ross Engineering Corporation. 423,241; Aug. 27; Serial No. 488,976; published June 4, 1946.
Stokers and structural parts thereof, Coal. Chrysler Corporation. 423,308; Aug. 27; Serial No. 492,893; published June 4, 1946.

CLASS 35

Piston rings. Solenberger Piston Ring Company. 211,249; renewed Apr. 6, 1946. O. G. Aug. 27.
Piston rings and expanders therefor, Metallic. Simplex Products Corporation. 423,396; Aug. 27.

CLASS 37

Check blanks wound in rolls, etc. Checks, Incorporated. 423,381; Aug. 27.
Envelopes, envelope windows, papery material. Celanese Corporation of America. 423,267; Aug. 27; Serial No. 491,231; published June 4, 1946.
Envelopes, letterheads, billheads, etc., Printed mailing. J. S. Bridges. 217,270; renewed Aug. 31, 1946. O. G. Aug. 27.
Paper and envelopes, Printing and writing. Berman Paper Corporation. 423,243; Aug. 27; Serial No. 489,252; published June 4, 1946.
Paper, Bond. Carew Manufacturing Company. 215,037; renewed July 6, 1946. O. G. Aug. 27.
Paper, Ledger. Carew Manufacturing Company. 215,325; renewed July 13, 1946. O. G. Aug. 27.
Tickets, Blank. Hall Brothers, Incorporated. 423,209; Aug. 27; Serial No. 478,123; published June 4, 1946.

CLASS 38

Books, pamphlets, catalogues, etc., Printed. J. S. Bridges. 216,766; renewed Aug. 17, 1946. O. G. Aug. 27.
Magazine, Monthly. Sunset Magazine, Inc. 209,499; renewed Feb. 23, 1946. O. G. Aug. 27.
Publication issued monthly. National Association of Housing Officials. 423,389; Aug. 27.

CLASS 39

Apparel, Ladies'. Morton's Incorporated. 423,409; Aug. 27.
Apparel, Women's. F. Sachar. 423,214; Aug. 27; Serial No. 479,989; published May 14, 1946.
Blouses, Misses' and ladies'. Donna Louise, Inc. 423,220; Aug. 27; Serial No. 482,293; published May 21, 1946.
Clothing. D. A. Soman. 423,419; Aug. 27.
Clothing and accessories, Women's. Neisner Brothers, Inc. 423,395; Aug. 27.
Clothing, Articles of. Oldin-Dennis. 423,349; Aug. 27; Serial No. 494,108; published May 21, 1946.
Clothing, Boys' and children's. Little Princess Co. 423,388; Aug. 27.
Clothing, Women's. S. Berliner. 423,423; Aug. 27.
Coats and suits, Ladies' and misses'. Grossman-Feld Cloak Co. 423,420; Aug. 27.
Coats and suits, Ladies', misses', and juniors'. Baitch & Castaldi, Inc. 423,301; Aug. 27; Serial No. 492,681; published June 4, 1946.
Coats, hats, jackets, etc., Ladies', misses', and children's fur and fur trimmed. Burt's, Inc. 423,228; Aug. 27; Serial No. 485,325; published June 4, 1946.
Coats, suits, jackets, etc., Ladies' and misses'. Hygrade Coat Co., Inc. 423,340; Aug. 27; Serial No. 493,774; published May 21, 1946.
Coats, suits, jackets, etc., Ladies' and misses'. H. Mandelbaum. 423,424; Aug. 27.
Dresses and coats, Misses' and junior. S. F. Iszard Co. 423,402; Aug. 27.
Dresses, aprons, slips, etc., Ladies', misses', and girls'. Shirley Fabrics Corp. 423,306; Aug. 27; Serial No. 492,863; published May 28, 1946.
Dresses, aprons, playsuits, etc., Ladies', misses', and girls'. Shirley Fabrics Corp. 423,307; Aug. 27; Serial No. 492,864; published May 28, 1946.
Dresses, blouses, playsuits, etc., Ladies', misses', and girls'. A. H. Vandam Co., Inc. 423,406; Aug. 27.
Dresses, Children's, girls', and women's. La Crosse Garment Mfg. Co. 423,293; Aug. 27; Serial No. 492,444; published May 7, 1946.
Dresses, Children's. Mayer-Nock Company. 423,236; Aug. 27; Serial No. 487,852; published May 28, 1946.
Dresses, Children's. Mayer-Nock Company. 423,376; Aug. 27; Serial No. 497,318; published May 28, 1946.
Dresses, coats, and suits, Women's and misses'. Reich Dress Company. 423,392; Aug. 27.
Dresses, Misses' and juniors'. Roberta Gowns Inc. 423,303; Aug. 27; Serial No. 492,792; published May 7, 1946.
Dresses of knitted, netted, and textile fabrics, Ladies'. J. Harrel Dresses, Inc. 423,415; Aug. 27.
Dresses, sportswear, Ladies' and misses'. Future Fashions, Inc. 423,217; Aug. 27; Serial No. 481,281; published May 7, 1946.
Dresses, suits, coats, etc., Women's, misses', and girls'. H. Baron. 423,253; Aug. 27; Serial No. 490,414; published June 4, 1946.
Dresses, Women's. Midwest Knit Goods Co. 423,397; Aug. 27.
Hosiery. F. H. Lassiter. 423,277; Aug. 27; Serial No. 491,762; published June 4, 1946.
Hosiery. Durham Hosiery Mills. 423,321; Aug. 27; Serial No. 493,334; published May 7, 1946.
Hosiery. F. H. Lassiter. 423,352; Aug. 27; Serial No. 495,198; published June 4, 1946.
Hosiery. H. Mantell. 423,378; Aug. 27.
Hosiery, briefs, shorts, etc. J. H. Siegel, Inc. 423,393; Aug. 27.
Hosiery for men. Ragan Knitting Company, Inc. 423,296; Aug. 27; Serial No. 492,581; published May 7, 1946.
Lingerie, Misses' and women's. Juliana Underwear Co. 423,263; Aug. 27; Serial No. 491,098; published May 7, 1946.
Outerwear, Men's, women's, boys', and girls'. New York Knitting Mills. 423,283; Aug. 27; Serial No. 491,876; published May 7, 1946.
Overalls, pants, shirts, etc. Miller Company. 218,184; renewed Sept. 21, 1946. O. G. Aug. 27.
Overalls, suits, overcoats, etc., Men's and boys'. Leisure Fit Manufacturing Company. 423,272; Aug. 27; Serial No. 491,415; published May 21, 1946.
Pajamas and lounging garments, One-piece, two-piece. General Sportwear Co., Inc. 423,304; Aug. 27; Serial No. 492,831; published May 28, 1946.
Panties, step-ins, underdrawers, etc., Ladies', misses', and children's. Krumhols & Lichtblau. 423,281; Aug. 27; Serial No. 491,846; published June 4, 1946.
Pants, Baby. Goodyear Rubber Sundries Inc. 423,332; Aug. 27; Serial No. 493,546; published May 14, 1946.
Raincoats and rain capes. Londontown Manufacturing Co. 423,351; Aug. 27; Serial No. 494,343; published June 4, 1946.
Robes, Men's. Cohen Bros. Specialties Inc. 423,425; Aug. 27.
Shirts and boys' shirts, waists, and blouses, Men's. C. Eisenman & Co. 53,829; re-renewed June 12, 1946. O. G. Aug. 27.
Shirts, and work pants, Men's and boys'. Miller Manufacturing Co., Inc. 423,336; Aug. 27; Serial No. 493,690; published May 14, 1946.
Shirts, Men's and boys' dress and sport. Yale Fabrics Corp. 423,300; Aug. 27; Serial No. 492,670; published May 7, 1946.
Shirts, Men's and boys' sport. Artvogue Sportswear Co. 423,413; Aug. 27.
Shirts, Men's dress and sport. Pennshire Shirt Company. 423,234; Aug. 27; Serial No. 486,867; published May 14, 1946.
Shirts, Outer. F. Jacobson & Sons, Inc. 423,286; Aug. 27; Serial No. 491,918; published May 21, 1946.
Shoes. Milius Shoe Company. 423,218; Aug. 27; Serial No. 481,488; published June 4, 1946.
Slacks, and slack suits, Men's and boys'. Mel Rose Mfg. Co. 423,295; Aug. 27; Serial No. 492,507; published June 5, 1946.
Slips; pajamas; night gowns; etc., Ladies' and misses'. D. A. Soman. 423,331; Aug. 27; Serial No. 493,519; published May 21, 1946.
Slips, Women's. Louis Herman & Company. 423,292; Aug. 27; Serial No. 492,440; published May 28, 1946.
Snow and ski jackets, sport coats, and jackets, Men's, boys', and girls' leather. H. L. B. Corporation. 423,294; Aug. 27; Serial No. 492,494; published May 21, 1946.
Snow suits, Children's and women's. Reliable Ski Wear Corporation. 423,341; Aug. 27; Serial No. 493,826; published May 14, 1946.
Snow suits, jackets, coats, etc. Rose Sportwear, Inc. 423,312; Aug. 27; Serial No. 492,959; published June 4, 1946.
Sportswear and resort wear. Miami Guild Embroideries. 423,421; Aug. 27.
Suits and dresses, Ladies' and misses'. Saranne Fifth Avenue. 423,322; Aug. 27; Serial No. 493,402; published May 14, 1946.
Suits, Bathing. Duchess Royal. 423,314; Aug. 27; Serial No. 493,055; published June 4, 1946.
Suits, Bathing. Duchess Royal. 423,315; Aug. 27; Serial No. 493,056; published May 14, 1946.
Suits, coats, and sport coats, Ladies' and misses'. Jimmy Whellan Sons, Inc. 423,342; Aug. 27; Serial No. 493,863; published May 21, 1946.
Suits, coats, overcoats, etc. Hart, Schaffner & Marx. 423,399; Aug. 27.
Suits, Men's and boys'. Goodall Company. 423,411; Aug. 27.
Suits, overcoats, topcoats, etc. Gamble-Skogmo, Inc. 423,382; Aug. 27.
Sweaters, Men's and boys'. Cavendish Knitwear Corp. 423,344; Aug. 27; Serial No. 493,947; published May 14, 1946.
Topcoats, overcoats, sportcoats, etc., Men's and boys'. Six Little Tailors Co. 423,223; Aug. 27; Serial No. 483,092; published May 14, 1946.
Trousers of corduroy material. Glenshor Manufacturing Co. 423,339; Aug. 27; Serial No. 493,760; published May 7, 1946.
Underwear, Men's and boys'. S. Brenner. 423,205; Aug. 27; Serial No. 471,968; published May 7, 1946.
Wearing apparel, Infants' and children's knitted and/or woven. A. M. Webb & Co. 423,377; Aug. 27; Serial No. 498,099; published June 4, 1946.
Wear, Infants'. New York Merchandise Co., Inc. 423,412; Aug. 27.

CLASS 40

Combs, Hard-rubber. American Hard Rubber Company. 51,721; re-renewed Apr. 24, 1946. O. G. Aug. 27.
Combs, Hard-rubber. American Hard Rubber Company. 52,085; re-renewed May 1, 1946. O. G. Aug. 27.
Combs, Rubber. American Hard Rubber Company. 51,383; re-renewed Apr. 17, 1946. O. G. Aug. 27.
Combs, Rubber. American Hard Rubber Company. 51,412; re-renewed Apr. 17, 1946. O. G. Aug. 27.
Textile small wares. J. & J. Cash, Incorporated. 215,723; renewed July 27, 1946. O. G. Aug. 27.

CLASS 42

Cotton piece goods, silk and cotton piece goods, etc. Henry Glass & Co. 214,811–13; renewed July 6, 1946. O. G. Aug. 27.
Cotton piece goods, silk and cotton piece goods, etc. Henry Glass & Co. 214,769; renewed July 6, 1946. O. G. Aug. 27.
Cotton piece goods, Woven. J. S. Reeves & Co. 54,178; re-renewed June 19, 1946. O. G. Aug. 27.
Silk in the piece, Artificial. Annin & Co. 218,142; renewed Sept. 21, 1946. O. G. Aug. 27.
Woolen piece goods. Forstmann & Huffman Company. 212,263; renewed Apr. 27, 1946. O. G. Aug. 27.

CLASS 43

Threads, Cotton. Clark Thread Company. 54,934; re-renewed Aug. 7, 1946. O. G. Aug. 27.
Vamping-thread. Clark Thread Company. 56,110; re-renewed Aug. 28, 1946. O. G. Aug. 27.

CLASS 44

Instruments for assisting the hearing. C. E. Eagle. 423,325; Aug. 27; Serial No. 493,436; published June 4, 1946.
Supports, Arch. Scholl Mfg. Co., Inc. 423,211; Aug. 27; Serial No. 478,356; published Mar. 20, 1945.

CLASS 45

Beverages, Nonalcoholic, maltless. Gerhard Lang Brewery. 217,969; renewed Sept. 14, 1946. O. G. Aug. 27.
Lithia water. W. G. Taylor. 50,861; re-renewed Apr. 3, 1946 O. G. Aug. 27.

CLASS 46

Biscuits, Animal. F. H. Bennett Biscuit Company. 218,468; renewed Sept. 28, 1946. O. G. Aug. 27.
Bread. Morey Mercantile Company. 218,659; renewed Sept. 28, 1946. O. G. Aug. 27.
Candies. Stephen F. Whitman & Sons, Inc. 218,242; renewed Sept. 21, 1946. O. G. Aug. 27.
Candies. Zion Industries, Inc. 423,410; Aug. 27.
Canned beans and canned corn. Blue Lake Producers Cooperative. 423,387; Aug. 27.
Canned olives, peas, corn. Puritan Fruit Products Company. 423,400; Aug. 27.
Feed for animals. General Mills, Inc. 423,386; Aug. 27.
Fish and fresh fish flesh, Fresh. General Seafoods Corporation. 216,179; renewed Aug. 3, 1946. O. G. Aug. 27.
Flour and mixed flour containing wheat germs, Bread and wheat germ. Keyes Daren Mills Limited. 211,276; renewed Apr. 6, 1946. O. G. Aug. 27.
Fruits, Fresh citrous. Fillmore Citrus Fruit Association. 218,072; renewed Sept. 21, 1946. O. G. Aug. 27.
Fruits, Fresh citrous. Fillmore Packing Co. 218,073; renewed Sept. 21, 1946. O. G. Aug. 27.
Fruits, Fresh citrous. Orange Heights Fruit Association. 218,106; renewed Sept. 21, 1946. O. G. Aug. 27.
Ham, bacon, beef, canned pork and beans, fruit preserves, etc., Cured. Beech-Nut Packing Company. 217,287; renewed Aug. 31, 1946. O. G. Aug. 27.
Ham, bacon, beef, canned pork and beans, fruit preserves, etc., Cured. Beech-Nut Packing Company. 217,366; renewed Aug. 31, 1946. O. G. Aug. 27.
Paste, Almond. H. Heide. 54,398; re-renewed Aug. 7, 1946. O. G. Aug. 27.
Rice. Rice Growers Association of California. 423,401; Aug. 27.
Salad dressing, Bottled. Hirsch Bros. & Co. 218,498; renewed Sept. 28, 1946. O. G. Aug. 27.
Salt. Griffith Laboratories, Inc. 218,136; renewed Sept. 21, 1946. O. G. Aug. 27.
Sirup, Pure ribbon sugar-cane. Roddenbery Brothers. 216,404; renewed Aug. 10, 1946. O. G. Aug. 27.

CLASS 48

Lager-beer. C. Feigenspan. 52,507; re-renewed May 8, 1946. O. G. Aug. 27.
Lager-beer, Bottled. Anheuser-Busch Brewing Association. 28,866; re-renewed Sept. 8, 1946. O. G. Aug. 27.

CLASS 50

Pads, Packing. H. W. Selle & Co. 217,553; renewed Sept. 7, 1946. O. G. Aug. 27.
Shoe lasts, animal traps, rat traps, etc. Abraham & Strauss, Inc. 216,525; renewed Aug. 10, 1946. O. G. Aug. 27.
Stamps for stamping trade-marks upon textiles. Kaumagraph Co. 54,575; re-renewed June 26, 1946. O. G. Aug. 27.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., and Peoria, Ill. Scraper. Re. 22,783; Aug. 27.
Paterson Engineering Company Limited, The, assignee: *See*—
Smalley, William.
Smalley, William, assignor to The Paterson Engineering Company Limited, London, England. Filtering apparatus. Re. 22,784; Aug. 27.

LIST OF DESIGN PATENTEES

Brass, Edward A., Shreveport, La. Fire alarm box. 145,472; Aug. 27.
Calem, Bernard, New York, N. Y. Handbag. 145,473; Aug. 27.
Cordley & Hayes, assignee: *See*—
Whitt, Sidney A.
Garcia, Leoncio, Youngstown, Ohio. Bird figure. 145,474; Aug. 27.
Gargano, Frank J., Providence, R. I. Brooch. 145,475; Aug. 27.
Gargano, Frank J., Providence, R. I. Brooch. 145,476; Aug. 27.
Hauser, Jon W., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Pencil sharpener. 145,477; Aug. 27.
Helsley, Virginia, New York, N. Y. Tablecloth or similar article. 145,478; Aug. 27.
Helsley, Virginia, New York, N. Y. Tablecloth or similar article. 145,479; Aug. 27.
Helsley, Virginia, New York, N. Y. Tablecloth or similar article. 145,480; Aug. 27.
Hodge, T. Barry, Chicago, Ill. Container for toys and the like. 145,481; Aug. 27.
Keyes, Kenneth, New York, N. Y. Slipper or similar article. 145,482; Aug. 27.
Keyes, Kenneth, New York, N. Y. Slipper or similar article. 145,483; Aug. 27.
Kirkell, Leon H., Blairsville, Pa. Cigar and cigarette lighter. 145,484; Aug. 27.
Koret, Joe, San Francisco, Calif. Textile fabric or similar article. 145,485; Aug. 27.
Lewis, Max J. Forest Hills, N. Y. Combination desk unit. 145,486; Aug. 27.
McFarland, Venable H. T., Clairton, Pa. Combination picture frame and illuminable mirror. 145,487; Aug. 27.
Mamoulian, Nellie F., New York, N. Y. Tablecloth or similar article. 145,488; Aug. 27.
Miller, Harold H., assignor to United Stove Company, Ypsilanti, Mich. Stove grid. 145,489; Aug. 27.
Ostier, Marianne, New York, N. Y. Wrist watch. 145,490; Aug. 27.
Sears, Roebuck and Co., assignee: *See*—
Hauser, Jon W.
Stack, James L., Jr., Crystal Bay, Nev. Compact. 145,491; Aug. 27.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,492; Aug. 27.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,493; Aug. 27.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,494; Aug. 27.
Taylor, David, Great Neck, N. Y. Lapel watch frame. 145,495; Aug. 27.
Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 145,496; Aug. 27.
Tobler, Hans, Teaneck, N. J. Emboridered trimming or similar article. 145,497; Aug. 27.
United Stove Company, assignee: *See*—
Miller, Harold H.
Universal Camera Corporation, assignee: *See*—
Ward, Wallace W.
Ward, Wallace W., Bloomfield, N. J., assignor to Universal Camera Corporation, New York, N. Y. Combined film and sound projector. 145,498; Aug. 27.
Whitt, Sidney A., Yonkers, assignor to Cordley & Hayes, New York, N. Y. Drinking fountain unit. 145,499; Aug. 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Agins, George: *See*—
Davis, Arthur P., and Agins.

Agriculture, United States of America, as represented by the Secretary of, assignee: *See*—
Hamilton, Robert M., and Nichols.
Noel, William A.
Rehberg, Chessie E.

Agule, George J., Stamford, assignor to Machlett Laboratories Incorporated, Springdale, Conn. Beryllium brazing. 2,406,310; Aug. 27.

Aircraft-Marine Products, Inc., assignee: *See*—
Buchanan, Stephen N.

Aktiebolaget A. Ekstroms Maskinaffar, assignee: *See*—
Lindgren, Karl O.

Aktiebolaget Superior, assignee: *See*—
Höglund, Thure G., and Leljon.

Albi Chemical Corporation, assignee: *See*—
Jones, Grinnell, and Juda.

Alessandroni, Hugh V., New York, and B. V. Sterk, Woodside, assignors to National Lead Company, New York, N. Y. Extraction of iron from titaniferous ores. 2,406,577; Aug. 27.

Alien Property Custodian: *See*—
Dorsman, Cornelis.

Allen, Thomas, Davison, Mich. Depth control for plows. 2,406,484; Aug. 27.

Allied Chemical & Dye Corporation, assignee: *See*—
Clark, Earl W.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Morris, Cecil H.

Alm, J. T., assignee: *See*—
Sauer, Christian H.

Aluminum Company of America, assignee: *See*—
Marsh, Kirtland.

Amdur, Leon H., Brooklyn, N. Y. Game device. 2,406,731; Aug. 27.

American Cyanamid Company, assignee: *See*—
Bart, Edward H.
Parker, Robert P., and Hill.

American Maize-Products Company, assignee: *See*—
Buchanan, Ben F., and Lloyd.

American Optical Company, assignee: *See*—
Bennett, Alva H., and Richards.
Ellis, Charles A.
Gradisar, Albin A., and Guellich.
Jackson, George W.
Joyce, William J.

American Safety Razor Corporation, assignee: *See*—
Ottomano, Mario.
Signoret, Albert J.

American Type Founders, Inc., assignee: *See*—
Long, Henry R.

Ames Baldwin Wyoming Co., assignee: *See*—
Wharton, George C.

Arma Corporation, assignee: *See*—
Davis, Arthur P.
Davis, Arthur P., and Agins.

Arnold, Harold A., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn. Hose pump. 2,406,485; Aug. 27.

Arpin, Leon G., assignee, et al.: *See*—
Neumann, Henry T.

Ashlock, George W., Jr., Oakland, Calif. Article orientation. 2,406,311; Aug. 27.

Ashton, Benjamin N., and E. V. Barkow, assignors to Electrol Incorporated, Kingston, N. Y. Control unit and dump valve. 2,406,524; Aug. 27.

Atwood Vacuum Machine Company, The, assignee: *See*—
Thelander, W. Vincent, De Coursey, Bechman, and Henning.

Auer, László, South Orange, N. J. Waxes. 2,406,336; Aug. 27.

Auer, László, South Orange, N. J. Modification of fatty oils. 2,406,337; Aug. 27.

Auer, László, South Orange, N. J. Rosin treatment. 2,406,338; Aug. 27.

Automatic Locking Devices Incorporated, assignee: *See*—
Spraragen, Louis.

Automotive Products Company Limited, assignee: *See*—
Brock, William H. J.

Ax, Helene, New York, N. Y. Breast support. 2,406,576; Aug. 27.

Badertscher, Darwin E., and H. G. Berger, Woodbury, and R. B. Bishop, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Production of resinous materials. 2,406,339; Aug. 27.

Bakal, Leslie G., Richmond, Va. Device for lubricating monotype keyboards. 2,406,651; Aug. 27.

Baker, Benjamin P.: *See*—
Ludwig, Leon R., Leeds, and Baker.

Baker, Henry M.: *See*—
Waller, Fred, Dresser, and Baker.

Ballard, Seaver A., Berkeley, and V. E. Haury, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Ketols from isophorones and homologues thereof. 2,406,652; Aug. 27.

Bardsley, Willard W., Providence, assignor to Wardwell Braiding Machine Company, Central Falls, R. I. Knitting machine. 2,406,525; Aug. 27.

Barkow, Eugene V.: *See*—
Ashton, Benjamin N., and Barkow.

Barr, Thomas: *See*—
Speakman, John B., and Barr.

Barraclough, Edgar: *See*—
Mossay, Paul A. H., Schwarz, and Barraclough.

Barron, Joseph M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Cracking and coking of hydrocarbon oils. 2,406,312; Aug. 27.

Barron, Joseph M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Cracking and coking hydrocarbon oils. 2,406,313; Aug. 27.

Bart, Edward H., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Production of para nitroacetanilide. 2,406,578; Aug. 27.

Basic Vegetable Products Co., assignee: *See*—
Miller, Martha W.

Bassist, Rudolph, New York, N. Y. Needle-controlling mechanism for knitting machines. 2,406,579; Aug. 27.

Bastick, Raymond E., W. M. Hampton, and T-H. Wang, assignors to Chance Brothers Limited, Smethwick, Birmingham, England. Optical glasses. 2,406,580; Aug. 27.

Batchelder, Laurence, Cambridge, assignor to Submarine Signal Company, Boston, Mass. Electric compensator. 2,406,340; Aug. 27.

Batchelor, Clyde S., Nichols, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Bonded friction assembly. 2,406,653; Aug. 27.

Bavley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Acylaceto guanazols. 2,406,654; Aug. 27.

Bax, Alfred R., Laurel Springs, H. F. Kielhorn, Oaklyn, and W. E. Forney, Merchantville, N. J., assignors to Cities Service Oil Company, New York, N. Y. Manufacturing lithium base greases. 2,406,655; Aug. 27.

Beach, Lennox F., and O. E. Esval, Merrick, and A. W. Lane, Freeport, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Directional gyroscope. 2,406,341; Aug. 27.

Beach, Lennox F., Port Washington; O. E. Esval, Huntington, and A. W. Lane, Roosevelt, N. Y., assignors to Sperry Gyroscope Company, Inc. Locking mechanism for directional gyroscopes. 2,406,342; Aug. 27.

Beardsley, Orie L., Washington, D. C. Nut and screw mechanism. 2,406,343; Aug. 27.

Bechman, William O.: *See*—
Thelander, W. Vincent, De Coursey, Bechman, and Henning.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Buhrendorf, Frederick G.
Doba, Stephen, Jr.
Ellwood, Walter B.
Friis, Harald T., and Rideout.
Harrison, Henry C.
Kellogg, William M.
Kindermann, Wilfred J
Kinkead, Fullerton S., Kinkead, Melhuish, Singer, and Smith.
MacNair, Walter A.
Mason, Warren P.
Munson, Wilden A.
Myers, Oscar.
Parkinson, David B.
Ring, Douglas H.

Bemis Bro. Bag Company, assignee: *See*—
Brady, Charles V.

Bendix Aviation Corporation, assignee: *See*—
Engbrecht, Herman J.
Jandasek, Joseph.

Benn, Stephen J., Philadelphia, Pa. Deodorant dispensing device. 2,406,314; Aug. 27.

Bennett, Alva H., Kenmore, and O. W. Richards, Snyder, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Microscope. 2,406,526; Aug. 27.

Berger, Henry G.: *See*—
Badertscher, Darwin E., Berger, and Bishop.

Bergfors, Gordon, Yonkers, assignor to Exercycle Corporation, New York, N. Y. Exercising machine. 2,406,344; Aug. 27.

Bergstrom, Hilding O. V., Stocksund, and K. G. Trobeck, Stockholm, Sweden. Utilizing waste liquors. 2,406,581; Aug. 27.

Berke, Joseph D., New York, N. Y. Orthodontic appliance. 2,406,527; Aug. 27.

Bieber, Clarence G., B. E. E. Franke, and W. F. Sumpter, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y. Removal of sulphur from molten metallic masses. 2,406,582; Aug. 27.

Billman, Stig K. M., assignee: *See*—
von Hortenau, Hans.

Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Exhaust energy converting internal-combustion engines. 2,406,656; Aug. 27.

Bishop, Richard B.: *See*—
Badertscher, Darwin E., Berger, and Bishop.

Bitler, William P., Haverstraw, and L. Nicholl, Nyack, assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Plasticizers. 2,406,657; Aug. 27.

Blackman, Herman J., assignee: *See*—
Miller, Irving B.

Blackman, Herman J., assignee, et al.: *See*—
Miller, Irving B.

Blair, David, Chicago, Ill. Fastener for edges of wearing apparel and the like. 2,406,528; Aug. 27.

Blauvelt, Ralph C., Lakewood, Ohio, assignor to Zenith Radio Corporation. Portable apparatus. 2,406,583; Aug. 27.

Blaw-Knox Company, assignee: *See*—
Pottmeyer, Edward W.

Blocher, Ora G., Wayne, Mich., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Clip. 2,406,315; Aug. 27.

Blumlein, Alan D., Ealing, London W–5, and E. L. C. White, Hillingdon, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Radio pulse system with interference eliminator. 2,406,316; Aug. 27.

Blumlein, Alan D., Ealing, London, W–5, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electrical apparatus for indicating or measuring distances. 2,406,529; Aug. 27.

Bogin, Charles, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Coatings for cellulose acetate plastics. 2,406,658; Aug. 27.

Bonde, Gust, Marinette, Wis. Double suction plunger. 2,406,317; Aug. 27.

Bonham, Walter R., Palo Alto, Calif. Engine fan control. 2,406,486; Aug. 27.

Borkenstein, Robert F., Indianapolis, Ind. Optical means for inspection. 2,406,451; Aug. 27.

Bostwick, Myron A., Budd Lake, and H. W. Lensner, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Relay. 2,406,584; Aug. 27.

Boyce, Malcolm B., Haverhill, Mass. Mechanism for pressure discharge of streams of liquid. 2,406,659; Aug. 27.

Brace, Porter H., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Supervisory apparatus. 2,406,318; Aug. 27.

Brach, E. J., & Sons, assignee: *See*—
Petrovic, Frank.

Brady, Charles V., Webster Groves, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag. 2,406,660; Aug. 27.

Brady, Charles V., Webster Groves, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag closure. 2,406,661; Aug. 27.

Brennan, Joseph B., Bratenahl, Ohio. Electrode and making same. 2,406,345; Aug. 27.

Brewer, Charles A., Noroton Heights, Conn. Eraser. 2,406,487; Aug. 27.

Brock, William H. J., assignor of one-half to Automotive Products Company Limited, Leamington Spa, England. Coupling device for pipes or tubes. 2,406,488; Aug. 27.

Brooks, Lester A., Stamford, Vt., and M. Nazzewski, Adams, assignors to Sprague Electric Company, North Adams, Mass. Insulated electrical conductor. 2,406,319; Aug. 27.

Brooks, Walter: *See*—
Seymour, George W., and Brooks.

Bruestle, Carl O., Rahway, assignor to Syncro Machine Company, Perth Amboy, N. J. Safety device for strainders. 2,406,530; Aug. 27.

Buchanan, Ben F., Leonia, N. J., and R. L. Lloyd, Laureton, N. Y., assignors to American Maize-Product Company. Gelatinization of starch. 2,406,585; Aug. 27.

Buchanan, Stephen N., Washington, D. C., assignor to Aircraft-Marine Products, Inc., Elizabeth, N. J. Electrical connector. 2,406,346; Aug. 27.

Buckthal, Elmer P.: *See*—
Sandretto, Peter C., and Buckthal.

Budd Company, The, assignee: *See*—
Strickland, Harold A., Jr.

Buhrendorf, Frederick G., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech privacy communication. 2,406,347; Aug. 27.

Buhrendorf, Frederick G., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret telephony. 2,406,348; Aug. 27.

Buhrendorf, Frederick G., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret signaling. 2,406,349; Aug. 27.

Burchett, Paul J., Glendale, Calif. Valve mechanism. 2,406,662; Aug. 27.

Canadian Copper Refiners, Limited, assignee: *See*—
Clark, Charles W., and Elkin.

Caruthers, Eugene W., Secane, Pa. Lubricated rail joint. 2,406,452; Aug. 27.

Case, Irvin L., Steubenville, Ohio, assignor to National Steel Corporation. Magnetic control. 2,406,489; Aug. 27.

Case, Rogers, Orange, N. J. Wire-transposing device. 2,406,663; Aug. 27.

Casella, Secondo L., Brooklyn, assignor to Morey Machinery Co., Inc., Astoria, Long Island, N. Y. Intermittent feed change mechanism. 2,406,664; Aug. 27.

Celanese Corporation of America, assignee: *See*—
Howorth, Harmon, and Holt.
Schiessler, Fred J.
Seymour, George W., and Brooks.

Chance Brothers Limited, assignee: *See*—
Bastick, Raymond E., Hampton, and Wang.

Charlton, William, S. G. Jarrett, and E. E. Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Treatment of paper or textile fabrics. 2,406,453; Aug. 27.

Charlton, William, S. G. Jarrett, and E. E. Walker, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Treatment of paper or textile fabrics. 2,406,454; Aug. 27.

Chubb, Lewis W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Recognition light system. 2,406,320; Aug. 27.

Churchill, Wilmer H., Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Covering installation and attaching clip therefor. 2,406,665; Aug. 27.

Ciba Pharmaceutical Products Incorporated, assignee: *See*—
Djerassi, Huttrer, and Scholz.

Cities Service Oil Company, assignee: *See*—
Bax, Alfred R., Kielhorn, and Forney.

Clark, Charles W., and E. M. Elkin, Montreal, Quebec, assignors to Canadian Copper Refiners, Limited, Toronto, Ontario, Canada. Making selenium dioxide. 2,406,666; Aug. 27.

Clark, Earl W., Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Dyestuff composition. 2,406,586; Aug. 27.

Clark, Robert H., assignee: *See*—
Smith, Lawson A.

Clarke, Louis A., Fishkill, assignor to The Texas Company, New York, N. Y. Motor fuels and making same. 2,406,667; Aug. 27.

Cohen, Harold, Elizabeth, N. J. Tower or mast. 2,406,668; Aug. 27.

Columbus McKinnon Chain Corporation, assignee: *See*—
Kieffer, Raymond J.

Commercial Solvents Corporation, assignee: *See*—
Bogin, Charles.
Morey, Glen H.
Senkus, Murray.

Connelly, John R., and S. W. Fish, Springfield, Mass. Wrapping wire reinforcing retainer lock. 2,406,354; Aug. 27.

Consolidated Engineering Corporation, assignee: *See*—
Washburn, Harold W., and Wiley.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Blocher, Ora G.
Keller, William C., and Fuday.

Cooper, Dexter P., Jr.: *See*—
Fairbank, Murray N., and Cooper.

Cooper, Jacob B., Park Ridge, N. J. Electrical switch and outlet box mounting. 2,406,587; Aug. 27.

Corbett, Herbert A.: *See*—
De Witt, William J., and Corbett.

Cornelius, George W., Dayton, Ohio, assignor to Flight Transportation, Inc. Airplane. 2,406,588; Aug. 27.

Courtaulds Limited, assignee: *See*—
Wormell, Robert L.

Crompton & Knowles Loom Works, assignee: *See*—
Payne, Oscar V.

Cullinan, James T., administrator: *See*—
Lee, Edward C., and Thomas.

Cunningham, Marion M., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Molding apparatus. 2,406,589; Aug. 27.

Curtiss-Wright Corporation, assignee: *See*—
Enos, Louis H.
Guerke, Ralph M.
McKee, James H.
Palmatier, Everett P.

Cuttino, William H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switching device. 2,406,321; Aug. 27.

Dahle, Lawrence A., Marietta, Minn. Combination square and bevel. 2,406,531; Aug. 27.

D'Alelio, Gaetano F., Northampton, Mass., assignor to General Electric Company. Preparing allyl and methallyl ether esters. 2,406,590; Aug. 27.

D'Alelio, Gaetano F., Northampton, Mass., assignor to General Electric Company. Mixtures of isomeric triazole derivatives and preparing the same. 2,406,591; Aug. 27.

Daniels, Theodore L., Great Neck, assignor to Pitman-Dreitzer & Co., Inc., New York, N. Y. Combination covered butter dish and toast rack. 2,406,669; Aug. 27.

Darwin, Joseph A., East Orange, and R. Robertson, Kearney, N. J., said Robertson assignor to said Darwin. Automatic phonograph. 2,406,355; Aug. 27.

Davidsen, Jess S. W., Mountain View, Calif. Rotary electrical boost device for reducing control forces on airplanes. 2,406,356; Aug. 27.

Davidson, Cyril D., Washington, Pa. Vulcanizing unit. 2,406,455; Aug. 27.

Davies, Benjamin L., assignor to United Ebonite & Lorival Limited, Little Lever, near Bolton, England. Liquid containers such as those of electric accumulators. 2,406,592; Aug. 27.

Davis, Andrew W., Madison, Ill. Matrix filler. 2,406,322; Aug. 27.

Davis, Arthur P., New York, and G. Agins, Brooklyn, N. Y., assignors to Arma Corporation. Remote control apparatus. 2,406,323; Aug. 27.

Davis, Arthur P., New York, N. Y., assignor to Arma Corporation. Gun control system. 2,406,324; Aug. 27.

Davis, Lee M., assignor to Jones & Lamson Machine Company, Springfield, Vt. Grinding wheel truing mechanism. 2,406,357; Aug. 27.

Day, Daniel A., Columbus, Ohio. Hair curling comb. 2,406,490; Aug. 27.

Decca Record Company, Limited, The, assignee: *See*—
O'Brien, William J.

De Coursey, Everson M.: *See*—
Thelander, W. Vincent, De Coursey, Bechman, and Henning.

Deere & Company, assignee: *See*—
Oehler, Alvin W., and Johnson.

Delamere Company, Inc., assignee: *See*—
Huppert, William.

Delgado, Jose F., Sanger, Calif. Pruning shears. 2,406,670; Aug. 27.

De Waern, Bror A., Riksby, Sweden. Internal-combustion engine. 2,406,491; Aug. 27.

De Weese, Joseph C.: *See*—
Gray, Reid B., and De Weese.

De Witt, William J., and H. A. Corbett, assignors to Shoe Form Co. Inc., Auburn, N. Y. Fishhook making machine. 2,406,456; Aug. 27.

Diamond, Hyman, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif. Cutting oil. 2,406,671; Aug. 27.

Dickelman Products Company, assignee: *See*—
Dickelman, Lizzie H.

Dickelman, Lizzie H., assignor to Dickelman Products Company, Forest, Ohio. Corrugated building construction. 2,406,593; Aug. 27.

Dingman, Robert E., Indiana, Pa. Flexible pocket receptacle. 2,406,672; Aug. 27.

Djerassi, Carl, Madison, Wis., C. P. Huttrer, and C. R. Scholz, assignors to Ciba Pharmaceutical Products Incorporated, Summit, N. J. Tertiary amines of heterocyclic compounds. 2,406,594; Aug. 27.

Doba, Stephen, Jr., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ground speed meter. 2,406,358; Aug. 27.

Doherty, William H., Elmhurst, N. Y. Vacuum last and sole forming machine. 2,406,359; Aug. 27.

Dominion Electrical Manufacturing, Inc., assignee: *See*—
Jordan, Richard H.

Dorfman, Hiller D., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,406,325; Aug. 27.

Dorsman, Cornelis, Eindhoven, Netherlands; vested in the Alien Property Custodian. Device for measuring low direct voltages. 2,406,492; Aug. 27.

Dresser, Willis R.: *See*—
Waller, Fred, Dresser, and Baker.

Drummond, Andrew, St. George, Staten Island, assignor to Lehigh Valley Coal Sales Company, New York, N. Y. Boiler. 2,406,673; Aug. 27.

Dunn, William G., Clarinda, Iowa. Imitation firing mechanism for training arms. 2,406,493; Aug. 27.

Du Pont, E. I., de Nemours & Co., assignee: *See*—
Farlow, Mark W.
Johnson, Aaron D.
Keats, John L.
Nerlinger, Ludwig F.
Signaigo, Frank K.
Thomas, Raymond E.
Vincent, John R.

Dyer, Charles W., Stratton, Maine. Sprocket drive for motion-picture projectors. 2,406,595; Aug. 27.

Electric & Musical Industries Limited, assignee: *See*—
Blumlein, Alan D.
Blumlein, Alan D., and White.

Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N., and Barkow.

Elkin, Eugene M.: *See*—
Clark, Charles W., and Elkin.

Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Eye testing means. 2,406,596; Aug. 27.

Ellwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication between ships. 2,406,360; Aug. 27.

Engbecht, Herman J., assignor to Bendix Aviation Corporation, North Hollywood, Calif. Tool. 2,406,326; Aug. 27.

Enos, Louis H., Montclair, N. J., assignor to Curtiss-Wright Corporation. Reinforced propeller blade. 2,406,457; Aug. 27.

Ericson, Swen H. R.: *See*—
Minarik, Anthony, Jr., and Ericson.

Esval, Orland E.: *See*—
Beach, Lennox F., Esval, and Lane.

Eureka Williams Corporation, assignee: *See*—
Hammell, Kemper M.

Evans, William J. R., Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of vinyl n-butyl ether. 2,406,674; Aug. 27.

Exercycle Corporation, assignee: *See*—
Bergfors, Gordon.

Fairbank, Murry N., Weston, and D. P. Cooper, Jr., assignors to Polaroid Corporation, Cambridge, Mass. Mold for use in the manufacture of optical elements. 2,406,361; Aug. 27.

Fahrenwald, Arthur W., Moscow, Idaho. Flotation machine. 2,406,532; Aug. 27.

Farlow, Mark W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process. 2,406,362; Aug. 27.

Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Electric pickup. 2,406,597; Aug. 27.

Fawns, Alexander G., Philadelphia, Pa. Piston ring expander. 2,406,533; Aug. 27.

Federal Reserve Bank of Philadelphia, assignee: *See*—
Birmann, Rudolph.

Ferris, Donald K., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,406,494; Aug. 27.

Fetterolf, Luther D., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Ceramic coated ferrous article. 2,406,534; Aug. 27.

Fish, Stanley W.: *See*—
Connelly, John R., and Fish.

Fisher, Sidney O., Schenectady, N. Y., assignor to General Electric Company. High-temperature alloy. 2,406,363; Aug. 27.

Flannery Bolt Company, assignee: *See*—
Greenslade, Grover R., and Landgraf.

Flight Transportation, Inc., assignee: *See*—
Cornelius, George W.

Flood, Oscar S., Chicago, Ill. Face shield. 2,406,598; Aug. 27.

Flynn, Anderson: *See*—
List, Roland, and Flynn.

Forestiere, Jasper A., Brooklyn, N. Y. Medical appliance. 2,406,600; Aug. 27.

Forney, William R.: *See*—
Bax, Alfred R., Kielhorn, and Forney.

Folke, Bengt E., Mamaroneck, assignor to Nathan Manufacturing Company, New York, N. Y. Mechanical lubricator. 2,406,599; Aug. 27.

Foote, Donald S., Kansas City, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Mixing machine. 2,406,535; Aug. 27.

Foster Wheeler Corporation, assignee: *See*—
Hoyte, William N.

Franke, Bengt E. E.: *See*—
Bieber, Clarence G., Franke, and Sumpter.

Friedrich, Robert E., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Contact structure. 2,406,327; Aug. 27.

Friis, Harald T., Rumson, and V. C. Rideout, Red Bank, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 2,406,364; Aug. 27.

Fuday, Leo F.: *See*—
Keller, William C., and Fuday.

Fuel Saver Corporation, assignee: *See*—
Pernet, Joseph E.

Fyler, George W., Stratford, Conn., assignor to General Electric Company. Cushion mounting. 2,406,601; Aug. 27.

Gallup, Ethel C., New York, N. Y. Cigarette rolling machine. 2,406,675; Aug. 27.

Galvin Manufacturing Corporation, assignee: *See*—
Holthouse, Harry B.

Gambitta, Alfred F., Jersey City, N. J., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Cable joint. 2,406,676; Aug. 27.

Gardner, Percy, East Orange, N. J., and R. Kagan, Brooklyn, assignors to Spiral Bagging Machine Corporation, New York, N. Y. Apparatus for making spiral wound tubing. 2,406,677; Aug. 27.

Gardner-Richardson Company, The, assignee: *See*—
Ringler, William A.

Gelpcke, Alfred W., Brooklyn, assignor to The Rawlplug Company, Inc., New York, N. Y. Drilling anchor part for bolts or screw studs and its use. 2,406,536; Aug. 27.

General Aniline & Film Corporation, assignee: *See*—
Baviey, Abraham.
Morreall, Herbert W., Jr.
Sweet, Monroe H.

General Electric Company, assignee: *See*—
D'Alelio, Gaetano F.
Faus, Harold T.
Fisher, Sidney O.
Fyler, George W.
Hurd, Dallas T.
Larrecq, Anthony J.
Marsden, James.
Ramo, Simon.

General Fireproofing Company, The, assignee: *See*—
Gibson, George R.

General Implement Corporation, assignee: *See*—
Karl, George E.

General Mills, Inc., assignee: *See*—
Long, George.

General Motors Corporation, assignee: *See*—
Ferris, Donald K.
Petkwitz, Carl F.

Gerahty, James D., New York, N. Y. Container and making same. 2,406,678; Aug. 27.

Gerndt, Paul G., and J. A. Hannum, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Removing rubber from metal. 2,406,458; Aug. 27.

Gibson, George R., Brookfield, assignor to The General Fireproofing Company, Youngstown, Ohio. Closure fastener. 2,406,459; Aug. 27.

Goehmann, Maurice H., Dearborn, Mich., assignor, by mesne assignments, to United States of America. Recoilless mechanism for guns and mortars. 2,406,537; Aug. 27.

Goodrich, B. F., Company, The, assignee: *See*—
Hunter, Willson H.

Gough, Achilles C., Pocatello, Idaho. Electrode holder. 2,406,365; Aug. 27.

Gradisar, Albin A., and G. E. Guellich, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical viewing and illuminating device. 2,406,538; Aug. 27.

Graef, John N., Ann Arbor, Mich. Camera. 2,406,366; Aug. 27.

Graflex, Inc., assignee: *See*—
Jacobson, Irving, and Smith.

Grand-Jean, Frederick R., University City, assignor to Sel-Mor Garment Co. Inc., St. Louis, Mo. Device for selection of articles of wearing apparel. 2,406,495; Aug. 27.

Gray, Reid B., Dundalk, and J. C. De Weese, Parkville, assignors to The Glenn L. Martin Company, Baltimore, Md. Fluid tank. 2,406,679; Aug. 27.

Greenslade, Grover R., Scott Township, Allegheny County, and F. K. Landgraf, Crafton, assignors to Flannery Bolt Company, Bridgeville, Pa. Manufacture of hollow staybolts. 2,406,539; Aug. 27.

Greenspan, Joseph: *See*—
Weisberg, Samuel M., Stimpson, Greenspan, and Othmer.

Griffith, Thomas R., and J. L. Orr, assignors to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Prevention and removal of ice or frost on aircraft parts. 2,406,367; Aug. 27.

Grilli, John P., assignee, et al.: *See*—
Wetherbee, Harry L.

Gross, Stefan, assignee, et al.: *See*—
Miller, Irving B.

Gross, William E., Joppa, Md. Gas mask canister. 2,406,368; Aug. 27.

Guellich, Gustav E.: *See*—
Gradisar, Albin A., and Guellich.

Guerke, Ralph M., Verona, N. J., assignor to Curtiss-Wright Corporation. Dual rotation propeller system. 2,406,460; Aug. 27.

Gulf Oil Corporation, assignee: *See*—
Siecke, Paul.

Gulf Research & Development Company, assignee: *See*—
Kennedy, Harvey T.

Gunderson, Ralph R., Chicago, Ill. Power brake mechanism. 2,406,328; Aug. 27.

Hacklander, Hans, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimming machine. 2,406,602; Aug. 27.

Hadesbeck, John S., Portland, Oreg. Punchboard registering device. 2,406,603; Aug. 27.

Hall, Horace W., Newton, Mass. Curing adhesive bonds in laminated structures. 2,406,680; Aug. 27.

Hambacher, August M., Denver, Colo. Folding doll bed. 2,406,496; Aug. 27.

Hamilton, Robert M., and P. L. Nichols, Jr., Philadelphia, Pa., assignors to United States of America as represented by Secretary of Agriculture. Preparation of organic solvent-soluble unsaturated carbohydrate ethers and products produced thereby. 2,406,369; Aug. 27.

Hammell, Kemper M., Detroit, Mich., assignor to Eureka Williams Corporation. Machine gun recharger. 2,406,461; Aug. 27.

Hampton, Wilfred M.: *See*—
Bastick, Raymond E., Hampton, and Wang.

Hannum, John A.: *See*—
Gerndt, Paul G., and Hannum.

Hansen, William W., and S. F. and R. H. Varian, assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Electronic oscillator-detector. 2,406,370; Aug. 27.

Hansen, William W., and R. H. and S. F. Varian, Garden City, N. Y., assignors to The Board of Trustees of Leland Stanford Junior University, Stanford University, Calif. Object detecting apparatus and method. 2,406,371; Aug. 27.

Hansen, William W., and J. R. Woodyard, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High frequency apparatus. 2,406,372; Aug. 27.

Hardman, Kenneth V., Clifton, N. J. Bristle setting. 2,406,732; Aug. 27.

Harrington, Paul J., Mountainside, N. J., assignor to Standard Oil Development Company. Reducing evaporation losses. 2,406,540; Aug. 27.

Harris, Benjamin R., Chicago, Ill. Amino-carboxylic acid esters of monoglycerides. 2,406,329; Aug. 27.

Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism for signal systems. 2,406,350; Aug. 27.

Hartford National Bank and Trust Company, assignee, trustee: *See*—
van Loon, Carel J.

Hartwick, Louis M.: *See*—
Kinney, Selwyne P., and Hartwick.

Haskell, Nelson B., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbons. 2,406,681; Aug. 27.

Haury, Vernon E.: *See*—
Ballard, Seaver A., and Haury.

Hayes, Norman V., and W. B. Humes, Boston, Mass., assignors to National Research Corporation, Boston, Mass. Desiccation method and apparatus. 2,406,682; Aug. 27.

Hazeltine Research, Inc., assignee: *See*—
Loughlin, Bernard D.

Heagney, Walter J., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen filling unit. 2,406,330; Aug. 27.

Heigis, Henry E., Nutley, assignor to Specialties Development Corporation, Bloomfield, N. J. Tank purging apparatus. 2,406,373; Aug. 27.

Henning, William W.: *See*—
Thelander, W. Vincent, De Coursey, Bechman, and Henning.

Hensel, Franz R., E. I. Larsen, and A. M. Suggs, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electroplated drift free springs. 2,406,683; Aug. 27.

Hewlett, Allen M., Haina, Hamakua, T. H. Sugar-cane mill. 2,406,541; Aug. 27.

Heyd, Josef W., Dayton, Ohio, assignor to Monsanto Chemical Company. Polymerization of methyl isopropenyl ketone. 2,406,684; Aug. 27.

Hill, Arthur J.: *See*—
Parker, Robert P., and Hill.

Hineline, Harris D.: *See*—
Young, David W., and Hineline.

Hinson, Jay B., Hartsdale, N. Y. Extinguisher. 2,406,685; Aug. 27.

Hoag, Roderick W., Melrose, Mass. Container and closure. 2,406,331; Aug. 27.

Hobbs, John W., assignor to John W. Hobbs Corporation, Springfield, Ill. Making sealing devices. 2,406,686; Aug. 27.

Hobbs, John W., Corporation, assignee: *See*—
Hobbs, John W.

Höglund, Thure G., and G. E. Leijon, assignors to Aktiebolaget Superior, Stockholm, Sweden. Soot blower. 2,406,687; Aug. 27.

Holmgren, Eric A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of prewelt shoes. 2,406,462; Aug. 27.

Holt, Laurence C.: *See*—
Howorth, Harmon, and Holt.

Holt, Pliny G., U. S. Navy. Differential rudder lever control. 2,406,374; Aug. 27.

Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Control means for liquid supply systems. 2,406,604; Aug. 27.

Horton, Aaron W., Thorofare, and J. Kellett, III, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Producing olefinic hydrocarbons. 2,406,688; Aug. 27.

Houdry Process Corporation, assignee: *See*—
Newton, Roger H.
Weiser, Harry B., Smith, and Mackay.

Howorth, Harmon, and L. C. Holt, Pearisburg, Va., assignors to Celanese Corporation of America. Treatment of staple fiber. 2,406,542; Aug. 27.

Hoyte, William N., Rosebank, Staten Island, assignor to Foster Wheeler Corporation, New York, N. Y. Fractionating column. 2,406,375; Aug. 27.

Hulbert, George E.: *See*—
Indge, Herbert S., and Hulbert.

Humes, William B.: *See*—
Hayes, Norman V., and Humes.

Hunter, Willson H., Lakewood, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Frictional mechanism. 2,406,543; Aug. 27.

Huppert, William, New York, N. Y., assignor to Delamere Company, Inc. Hair foundation. 2,406,376; Aug. 27.

Hurd, Dallas T., Schenectady, N. Y., assignor to General Electric Company. Hydrogenation of halogenosilanes. 2,406,605; Aug. 27.

Hurley, Michael, Denver, Colo. Stair construction. 2,406,497; Aug. 27.

Hurtel, William W., Los Angeles, Calif. Keyless lock. 2,406,332; Aug. 27.

Hutchins, Edward: *See*—
Maxim, William D., and Hutchins.

Huttrer, Charles P.: *See*—
Djerassi, Carl, Huttrer, and Scholz.

Hydraulic Development Corporation, Inc., assignee: *See*—
Tucker, Warren R.

Immel, Ralph B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Adjustable time limit device. 2,406,377; Aug. 27.

Immel, Ralph B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vibratory latching device. 2,406,378; Aug. 27.

Imperial Chemical Industries Limited, assignee: *See*—
Charlton, William, Jarrett, and Walker.
Evans, William J. R.
Speakman, John B., and Barr.

Indge, Herbert S., Westboro, Mass., assignor to Norton Company, Worcester, Mass. Cam lapping machine. 2,406,689; Aug. 27.

Indge, Herbert S., and G. E. Hulbert, Westboro, Mass., assignor to Norton Company, Worcester, Mass. Lapping machine. 2,406,690; Aug. 27.

International Nickel Company, Inc., The, assignee: *See*—
Bieber, Clarence G., Franke, and Sumpter.

International Paper Company, assignee: *See*—
Maxim, William D., and Hutchins.

Ipatieff, Vladimir N.: *See*—
Pines, Herman, and Ipatieff.
Schmerling, Louis, and Ipatieff.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Squire, Robert C.

Jackson, George W., assignor to American Optical Company, Southbridge, Mass. Edging machine. 2,406,606; Aug. 27.

Jacobson, Irving, Hollywood, Calif., and H. E. Smith, Rochester, N. Y., assignors to Graflex, Inc., Rochester, N. Y. Camera and light synchronizer. 2,406,691; Aug. 27.

Jacobs Manufacturing Company, The, assignee: *See*—
Stoner, Arthur M.

James, Harold V., Denver, Colo. Tire casing vulcanizer. 2,406,498; Aug. 27.

James Manufacturing Company, assignee: *See*—
Waterman, Arthur E.

Jandasek, Joseph, Highland Park, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid transmission. 2,406,499; Aug. 27.

Jarrett, Stanley G.: *See*—
Charlton, William, Jarrett, and Walker.

Jensen, Emil O., Chicago, Ill. Machine for applying pneumatic pressure to cast metals. 2,406,333; Aug. 27.

Jensen, Julius A., Willamina, Oreg. Rigging connector element. 2,406,607; Aug. 27.

Johnson, Aaron D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pickling bath for ferrous metals. 2,406,379; Aug. 27.

Johnson, Elmer R., Beacon, N. Y., assignor to Texaco Development Corporation, Jersey City, N. J. Motor fuel and using same. 2,406,544; Aug. 27.

Johnson, Eric J.: *See*—
Oehler, Alvin W., and Johnson.

Johnston, William, Jr., Wilkinsburg, Pa. Cinder pot. 2,406,380; Aug. 27.

Jones, Grinnell, and W. Juda, Cambridge, Mass., assignors to Albi Chemical Corporation, New York, N. Y. Solid complex metal amine salts and the preparation thereof. 2,406,692; Aug. 27.

Jones & Lamson Machine Company, assignee: *See*—
Davis, Lee M.

Jones, Maurice F.: *See*—
Jones, Ruel C., and W. F.

Jones, Ruel C., Pittsburgh, and M. F. Jones, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Prime mover for electric catapults. 2,406,381; Aug. 27.

Jonsson, Nils W., assignee: *See*—
Lindgren, Karl O.

Jordan, Richard H., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Switching apparatus. 2,406,693; Aug. 27.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,406,463; Aug. 27.

Joyce, William J., assignor to American Optical Company, Southbridge, Mass. Eye protection means and method of making the same. 2,406,608; Aug. 27.

Juda, Walter: *See*—
Jones, Grinnell, and Juda.

Kagan, Ralph: *See*—
Gardner, Percy, and Kagan.

Karl, George E., Liberty, Ind., assignor to General Implement Corporation, Cleveland, Ohio. Hoe wheel plate stamping. 2,406,500; Aug. 27.

Katz, Meyer, Canoga Park, Calif. Lock device. 2,406,464; Aug. 27.

Kay-Fries Chemicals, Inc., assignee: *See*—
Bitler, William P., and Nicholl.

Keats, John L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Titanium oxide pigment production. 2,406,465; Aug. 27.

Kebrich, Leonard M., and E. P. Peterson, Brooklyn, assignors to National Lead Company, New York, N. Y. Coating compositions. 2,406,609; Aug. 27.

Keller, William C., and L. F. Fuday, assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Bracket for supporting oxygen bottles or the like. 2,406,334; Aug. 27.

Kellett, John, III: *See*—
Horton, Aaron W., and Kellett.

Kellogg, M. W., Company, The, assignee: *See*—
Solomon, Ernest, and Rubin.

Kellogg, William M., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicating system. 2,406,382; Aug. 27.

Kelsall, Frederick A., Boulder, Colo. Envelope opening device. 2,406,610; Aug. 27.

Kenerson, Stanley M., assignor to The Standard Electric Time Company, Springfield, Mass. Electric signal device. 2,406,545; Aug. 27.

Kennedy, Harvey T., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Geochemical prospecting method. 2,406,611; Aug. 27.

Kester, Lynn C., Hereford, Tex. Toy fisherman. 2,406,466; Aug. 27.

Kieffer, Raymond J., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Welding machine. 2,406,694; Aug. 27.

Kielhorn, Harry F.: *See*—
Bax, Alfred R., Kielhorn, and Forney.

Kimball, A., Company, assignee: *See*—
Weimont, Joseph.

Kindermann, Wilfred J., Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical terminal. 2,406,383; Aug. 27.

King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,406,424; Aug. 27.

King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,406,425; Aug. 27.

King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,406,426; Aug. 27.

Kinkead, Fullerton S., deceased, New York, by R. S. Kinkead, Trudau, N. Y., administratrix, L. E. Melhuish, Glen Ridge, N. J., F. J. Singer, Rockville Centre, N. Y., and E. M. Smith, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Data transmission system. 2,406,384; Aug. 27.

Kinkead, Rita S., administratrix: *See*—
Kinkead, Fullerton S., Melhuish, Singer, and Smith.

Kinney, S. P., Engineers, Inc., assignee: *See*—
Kinney, Selwyne P., and Hartwick.

Kinney, Selwyne P., Crafton, and L. M. Hartwick, Beaver, Pa., assignors, by mesne assignments, to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Car unloading device. 2,406,546; Aug. 27.

Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Abrasive article and making the same. 2,406,385; Aug. 27.

Koepnick, Robert C., Dayton, Ohio, D. I. Patt, Providence, R. I., and F. E. Randall, New Philadelphia, Ohio. Glove-size tester. 2,406,386; Aug. 27.

Kratzmaier, Paul, Kansas City, Mo. Structural connecting and supporting unit. 2,406,501; Aug. 27.

Kuert, Ira J., Los Angeles, Calif. Mobile tower. 2,406,335; Aug. 27.

Kuhl, Paul E., Madison, and A. B. Welty, Jr., Roselle, N. J., assignors to Standard Oil Development Company. Catalytic cracking process. 2,406,547; Aug. 27.

Lake, George R., Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif. Separation of hydrocarbons by distillation. 2,406,695; Aug. 27.

Landgraf, Frederick K.: *See*—
Greenslade, Grover R., and Landgraf.

Landrum, Joel L., Clovis, N. Mex. Fluid transmission and clutch means. 2,406,548; Aug. 27.

Landrum, Joel L., Marfa, Tex. Automatic hydraulic clutch. 2,406,612; Aug. 27.

Lane, Arthur W.: *See*—
Beach, Lennox F., Esval, and Lane.

Lank, Alvin B., Washington, D. C. Making wooden post construction. 2,406,387; Aug. 27.

Larrecq, Anthony J., Indianapolis, Ind., assignor to General Electric Company. Turbosupercharger. 2,406,388; Aug. 27.

Larsen, Earl I.: *See*—
Hensel, Franz R., Larsen, and Suggs.

Lee, Edward C., deceased, by J. T. Cullinan, Chicago, administrator, and C. L. Thomas, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oil. 2,406,613; Aug. 27.

Lee, Edward C., deceased, by J. T. Cullinan, Chicago, administrator, and C. L. Thomas, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oil. 2,406,614; Aug. 27.

Lee Engineering Research Corporation, assignee: *See*—
Lee, Royal.

Lee, Royal, assignor to Lee Engineering Research Corporation, Milwaukee, Wis. Electric motor. 2,406,389; Aug. 27.

Leeds, Winthrop M.: *See*—
Ludwig, Leon R., Leeds, and Baker.

Lehigh Valley Coal Sales Company, assignee: *See*—
Drummond, Andrew.

Leijon, Gustav E.: *See*—
Höglund, Thure G., and Leijon.

Leland Stanford Junior University, The Board of Trustees of, assignee: *See*—
Hansen, William W., and R. H. and S. F. Varian.
Hansen, William W., and S. F. and R. H. Varian.

Lensner, Herbert W.: *See*—
Bostwick, Myron A., and Lensner.

Lensner, Herbert W., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Carrier-current relaying. 2,406,615; Aug. 27.

Lensner, Herbert W., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Carrier-current protective relaying system. 2,406,616; Aug. 27.

Lensner, Herbert W., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Relay system. 2,406,617; Aug. 27.

Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Inertia safety switch. 2,406,427; Aug. 27.

Leslie, Roy W., Detroit, Mich. Milk bottle attachment. 2,406,696; Aug. 27.

Levine, Joseph: *See*—
Wollner, Herbert J., Matchett, and Levine.

Lieber, Eugene, West New Brighton, Staten Island, N. Y., assignor to Standard Oil Development Company. Lubricant containing condensation product. 2,406,549; Aug. 27.

Lincoln, John D., assignor to Virginia-Lincoln Corporation, Marion, Va. Joint construction. 2,406,697; Aug. 27.

Lindgren, Karl O., Djursholm, assignor to Aktiebolaget A. Ekstroms Maskinaffar, Stockholm, Sweden, and N. W. Jonsson, Lidingo, Sweden. Device for sorting, dehydrating, or washing of suspensions of fibrous materials. 2,406,618; Aug. 27.

Lines, Carl H., assignor to Stant Manufacturing Company, Connersville, Ind. Radiator pressure cap. 2,406,502; Aug. 27.

List, Roland, and A. Flynn, Zanesville, Ohio, assignors to The Mosaic Tile Company. Mechanically-actuated press for trim tile. 2,406,619; Aug. 27.

Lloyd, Robert L.: *See*—
Buchanan, Ben F., and Lloyd.

Local Industries, Incorporated, assignee: *See*—
Patchen, Elester R.

Long, George, St. Louis Park, Minn., assignor to General Mills, Inc. Caging mechanism. 2,406,698; Aug. 27.

Long, Henry R., Linden, assignor to American Type Founders, Inc., Elizabeth, N. J. Diaphragm control. 2,406,550; Aug. 27.

Looney, Edward M., Watertown, Mass. Fixture for grinding wheel and tool forms. 2,406,467; Aug. 27.

Loughlin, Bernard D., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Direction-indicating system. 2,406,468; Aug. 27.

Lucke, Charles E., New York, N. Y., assignor to United Aircraft Corporation, East Hartford, Conn. Cylinder cooling structure for aircraft engines. 2,406,551; Aug. 27.

Lucke, Charles E., New York, N. Y., assignor to United Aircraft Corporation, East Hartford, Conn. Axial flow cooling structure for aircraft engines. 2,406,552; Aug. 27.

Luckett, James P., assignor to Clifford Waterhouse, Jackson, Miss. Hoisting device for dump trucks and other vehicles. 2,406,620; Aug. 27.

Luckhaupt, Christopher, Jamaica, N. Y., assignor to A. R. Southworth, Englewood, N. J. Metal containing plastic composition. 2,406,428; Aug. 27.

Ludwig, Leon R., and W. M. Leeds, Wilkinsburg, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,406,69; Aug. 27.

Lustig, Florence, New York, N. Y. Bust separator. 2,406,699; Aug. 27.

Lyon, George A., Allenhurst, N. J. Wheel construction. 2,406,390; Aug. 27.

Machlett Laboratories Incorporated, assignee: *See*—
Agule, George J.

Mackay, Johnstone S.: *See*—
Weiser, Harry B., Smith, and Mackay.

MacNair, Walter A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech privacy system. 2,406,351; Aug. 27.

Mader, Joseph, assignor to Maremont Automotive Products, Inc., Chicago, Ill. Disk mounting. 2,406,553; Aug. 27.

Mahoney, John R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control system. 2,406,429; Aug. 27.

Mallory, P. R., & Co., Inc., assignee: *See*—
Hensel, Franz R., Larsen, and Suggs.

Maremont Automotive Products, Inc., assignee: *See*—
Mader, Joseph.

Marsden, James, Schenectady, N. Y., assignor to General Electric Company. Preparing polysiloxane resins. 2,406,621; Aug. 27.

Marsh, Kirtland, assignor to Aluminum Company of America, Pittsburgh, Pa. Heating metal bodies preparatory to hot working. 2,406,554; Aug. 27.

Martin, Glenn L., Company, The, assignee: *See*—
Gray, Reid B., and De Weese.
Pepersack, Francis J.
Riggles, William M., Jr.

Martin, Homer Z., Elizabeth, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,406,555; Aug. 27.

Mason, Robert E., Sewickley, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reversible single phase motor. 2,406,430; Aug. 27.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compressional wave directional, prismatic, and focusing system. 2,406,391; Aug. 27.

Matchett, John R.: *See*—
Wollner, Herbert J., Matchett, and Levine.

Mavity, Julian M., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,406,622; Aug. 27.

Maxim, William D., Glens Falls, and E. Hutchins, Corinth, N. Y., assignors to International Paper Company. Coating apparatus. 2,406,470; Aug. 27.

McCulloch Aviation, Inc., assignee: *See*—
Ryde, John L.

McKee, James H., North Caldwell, N. J., assignor to Curtiss-Wright Corporation. Reinforced propeller blade. 2,406,471; Aug. 27.

McNab, John G.: *See*—
Rogers, Dilworth T., and McNab.

Meincke, Howard D., assignee: *See*—
Turner, Frank D.

Melhuish, Lawrence E.: *See*—
Kinkead, F. S., Meluish, Singer, and Smith.

Miller, Irving B., assignor of one-half to S. Gross, and one-half to H. J. Blackman, Chicago, Ill. Hat size reducer. 2,406,700; Aug. 27.

Miller, Irving B., assignor to H. J. Blackman, Chicago, Ill. Hat size reducer. 2,406,701; Aug. 27.

Miller, Leslie W., assignor to The Morgan Crucible Company Limited, London, England. Variable electrical resistance. 2,406,503; Aug. 27.

Miller, Martha W., assignor to Basic Vegetable Products Co., Yacaville, Calif. Dehydrating vegetables. 2,406,431; Aug. 27.

Mills Novelty Company, assignee: *See*—
Minarik, Anthony, Jr.

Minarik, Anthony, Jr., and S. H. R. Ericson, assignors to Mills Novelty Company, Chicago, Ill. Apparatus for applying rotating bands to projectile shells. 2,406,392; Aug. 27.

Miskawaka Rubber and Woolen Manufacturing Company, assignee: *See*—
Cunningham, Marion M.

Modine Manufacturing Company, assignee: *See*—
Spieth, Benjamin.

Mohr, Albert, Jr., assignee, et al.: *See*—
Wetherbee, Harry L.

Monsanto Chemical Company, assignee: *See*—
Heyd, Josef W.
Thomas, Charles A.

Moon, Ernest F., Denver, Colo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Honing machine. 2,406,556; Aug. 27.

Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Nitro ketals and preparation thereof. 2,406,504; Aug. 27.

Morey Machinery Co., Inc., assignee: *See*—
Casella, Secondo L.

Morgan Crucible Company Limited, The, assignee: *See*—
Miller, Leslie W.

Morreall, Herbert W., Jr., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Sensitometer. 2,406,702; Aug. 27.

Morris, Cecil H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine blade locking apparatus. 2,406,703; Aug. 27.

Mosaic Tile Company, The, assignee: *See*—
List, Roland, and Flynn.

Mossay, Paul A. H., B. Schwarz, and E. Barraclough, Norwich, England. Multiphase A. C. transformer. 2,406,704; Aug. 27.

Mrazek, Joseph, Woodside, Long Island, N. Y. Marking bodies. 2,406,705; Aug. 27.

Munson, Wilden A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone privacy. 2,406,352; Aug. 27.

Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret signaling. 2,406,353; Aug. 27.

Myers, Walter, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Work-guiding mechanism for sewing machines. 2,406,623; Aug. 27.

Myers, Thomas G., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif. Bearing support. 2,406,505; Aug. 27.

Nagin, Harry S., assignor to Reliance Steel Products Company, McKeesport, Pa. Structural member. 2,406,557; Aug. 27.

Nathan Manufacturing Company, assignee: *See*—
Folke, Bengt E.

National Lead Company, assignee: *See*—
Alessandroni, Hugh V., and Sterk.
Kebrich, Leonard M., and Peterson.

National Research Corporation, assignee: *See*—
Hayes, Norman V., and Humes.

National Steel Corporation, assignee: *See*—
Case, Irvin L.

Nazzewski, Mathew: *See*—
Brooks, Lester A., and Nazzewski.

Nelson, Ted, assignee: *See*—
Perrin, William W.

Nerlinger, Ludwig F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of cadmium yellow pigments. 2,406,472; Aug. 27.

Neuberg, Carl A., New York, and I. S. Roberts, Fieldston, assignors, by mesne assignments, to Sun Chemical Corporation, New York, N. Y. Manufacturing invertase preparations. 2,406,624; Aug. 27.

Neugass, Edwin A., Port Chester, N. Y. Tweezer implement and the like. 2,406,393; Aug. 27.

Neumann, Henry T., New York, N. Y., assignor of one-third to L. G. Arpin, Montclair, N. J., and one-third to E. L. Symonds, Jackson Heights, N. Y. Aerylic resins. 2,406,558; Aug. 27.

New Jersey Zinc Company, The, assignee: *See*—
Fetterolf, Luther D.

Newton, Roger H., Bowling Green, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of aviation gasoline. 2,406,394; Aug. 27.

Nicholl, Leonard: *See*—
Bitler, William P., and Nicholl.

Nichols, Peter L., Jr.: *See*—
Hamilton, Robert M., and Nichols.

Niere, Herman, St. Louis, Mo. Poultry feeder. 2,406,432; Aug. 27.

Noel, William A., Washington, D. C., assignor to the United States of America, as represented by the Secretary of Agriculture. Dehydrating meats containing fats in a fluid current. 2,406,395; Aug. 27.

Northrop Aircraft, Inc., assignee: *See*—
Northrop, John K.

Northrop, John K., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. All-wing airplane. 2,406,506; Aug. 27.

Norton Company, assignee: *See*—
Indge, Herbert S.
Kistler, Samuel S.

Norton, Lowell E., Collingswood, N. J., assignor to Radio Corporation of America. Automatic gain control. 2,406,433; Aug. 27.

Oakes, William, Hale, England. Fabric for concrete constructions. 2,406,559; Aug. 27.

O'Brien, William J., Los Angeles, Calif., assignor to The Decca Record Company, Limited, London, England. Equisignal radio beacon system. 2,406,396; Aug. 27.

Oehler, Alvin W., and E. J. Johnson, assignors to Deere & Company, Moline, Ill. Harvester reel. 2,406,706; Aug. 27.

Oglesby, Thomas W., Peru, Ind. Airplane. 2,406,625; Aug. 27.

Orr, John L.: *See*—
Griffith, Thomas R., and Orr.

Othmer, Donald F.: *See*—
Weisberg, Samuel M., Stimpson, Greenspan, and Othmer.

Ottomano, Mario, Union City, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Yarn producing apparatus. 2,406,626; Aug. 27.

Overbeke, John, Cleveland Heights, Ohio. Making fibrous bristles. 2,406,707; Aug. 27.

Owens, Fred L., Richmond, Calif. Ventilating and deodorizing toilet. 2,406,507; Aug. 27.

Packard Motor Car Company, assignee: *See*—
Ware, Marsden.

Palmatier, Everett P., Upper Montclair, N. J., assignor to Curtiss-Wright Corporation. Fan de-icing or anti-icing means. 2,406,473; Aug. 27.

Papsdorf, Robert A., Los Angeles, Calif. Self-acting stock feed. 2,406,508; Aug. 27.

Parker Pen Company, The, assignee: *See*—
Heagney, Walter J.

Parker, Robert P., Somerville, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine derivatives of para aminomethyl benzoic acid. 2,406,627; Aug. 27.

Parkinson, David B., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wire winding machine. 2,406,397; Aug. 27.

Patchen, Elester R., Lakeville, Conn., assignor to Local Industries, Incorporated. Apparatus for forming skis, etc. 2,406,628; Aug. 27.

Patt, Donald I.: *See*—
Koepnick, Robert C., Patt, and Randall.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam. 2,406,434; Aug. 27.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam with warp holding means. 2,406,435; Aug. 27.

Pearis, Samuel H., assignee: *See*—
Rogers, Gerrit P.

Pepersack, Francis J., Towson, assignor to The Glenn L. Martin Company, Middle River, Md. Access door fitting for tanks. 2,406,708; Aug. 27.

Pernet, Joseph E., assignor to Fuel Saver Corporation, Chicago, Ill. Combustion improving apparatus. 2,406,398; Aug. 27.

Perrin, William W., Albany, assignor to Ted Nelson, San Leandro, Calif. Welding arc stabilizer. 2,406,474; Aug. 27.

Peter, Kurt, assignor to Ralph Kurt Peter, Bronx, N. Y. Collapsible table. 2,406,436; Aug. 27.

Peter, Ralph K., assignee: *See*—
Peter, Kurt.

Peterson, Edwin P.: *See*—
Kebrich, Leonard M., and Peterson.

Petkwitz, Carl F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,406,629; Aug. 27.

Petrovic, Frank, assignor to E. J. Brach & Sons, Chicago, Ill. Chocolate dipped peanut attachment. 2,406,437; Aug. 27.

Pever, Ernest F., Beacon, assignor to The Texas Company, New York, N. Y. Alkylation of isoparaffins with ethylene. 2,406,709; Aug. 27.

Phelps Dodge Copper Products Corporation, assignee: *See*—
Gambitta, Alfred F.

Pilo, Claës-Wilhelm, Stockholm, Sweden. Method of and apparatus for carbonizing peat. 2,406,509; Aug. 27.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Production of cyclo-olefinic hydrocarbons and aromatic hydrocarbons. 2,406,630; Aug. 27.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Production of cyclo-olefinic hydrocarbons and aromatic hydrocarbons. 2,406,631; Aug. 27.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Production of cyclo-olefinic hydrocarbons and aromatic hydrocarbons. 2,406,632; Aug. 27.

Pines, Herman, and R. C. Wackher, Riverside, assignors to Universal Oil Products, Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,406,633; Aug. 27.

Pines, Herman, and R. C. Wackher, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,406,634; Aug. 27.

Pitman-Dreitzer & Co., Inc., assignee: *See*—
Daniels, Theodore L.

Polaroid Corporation, assignee: *See*—
Fairbank, Murry N., and Cooper.
Richardson, John H.
Rogers, Howard G.

Pool, Byron R., Evansville, Ind. Auxiliary fluid pressure system. 2,406,510; Aug. 27.

Pope, Winslow B., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket motor. 2,406,560; Aug. 27.

Pottmeyer, Edward W., assignor to Blaw-Knox Company, Pittsburgh, Pa. Cooling apparatus for furnace ports. 2,406,399; Aug. 27.

Pratt, Robert K., Sr., Healys, Va. Flowerpot. 2,406,439; Aug. 27.

Pumps, Myer, Washington, D. C. Necktie holder. 2,406,400; Aug. 27.

Radio Corporation of America, assignee: *See*—
Norton, Lowell E.

Ramey, Blaine B., guardian: *See*—
Riggles, William M., Jr.

Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Amplifying high frequency signals. 2,406,635; Aug. 27.

Randall, Francis E.: *See*—
Koepnick, Robert C., Patt, and Randall.

Rasor, Orval, Portland, Oreg. Detachable cover for containers. 2,406,636; Aug. 27.

Rawlplug Company, Inc., The, assignee: *See*—
Gelpcke, Alfred W.

Raybestos-Manhattan, Inc., assignee: *See*—
Batchelor, Clyde S.

Raytheon Manufacturing Company, assignee: *See*—
Wood, Ross.

Rehberg, Chessie E., Philadelphia, Pa., assignor to United States of America as represented by the Secretary of Agriculture, and his successors in office. Azeotropic distillation of methanol from admixture with acrylic esters. 2,406,561; Aug. 27.

Reliance Steel Products Company, assignee: *See*—
Nagin, Harry S.

Remington Arms Company, Inc., assignee: *See*—
Foote, Donald S.
Moon, Ernest F.
Reynolds, Warren S.

Reynolds, Warren S., Stratford, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Trimming machine. 2,406,562; Aug. 27.

Richards, Oscar W.: *See*—
Bennett, Alva H., and Richards.

Richardson, John H., Needham, assignor to Polaroid Corporation, Cambridge, Mass. Mold for use in the manufacture of optical elements. 2,406,401; Aug. 27.

Rideout, Vincent C.: *See*—
Frils, Harald T., and Rideout.

Riggles, William M., Jr., B. B. Ramey, guardian of the estate of said W. M. Riggles, Jr., assignor to The Glenn L. Martin Company, Middle River, Md. Landing gear housing door. 2,406,710; Aug. 27.

Ring, Douglas H., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency adjustment of resonant cavities. 2,406,402; Aug. 27.

Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Foldable end wall carrier and carton. 2,406,711; Aug. 27.

Robbins, William K., Chicago, Ill. Chain link. 2,406,712; Aug. 27.

Roberts, Irene S.: *See*—
Neuberg, Carl A., and Roberts.

Roberts, Wesley J., North Little Rock, Ark. Valve cap. 2,406,563; Aug. 27.

Robertson, Robert: *See*—
Darwin, J. A., and Robertson.

Rogers, Dilworth T., Plainfield, and J. G. McNab, Cranford, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,406,564; Aug. 27.

Rogers, Gerrit P., Windsor, assignor of one-fourth to S. H. Pearis, Binghamton, N. Y. Slotted airplane wing. 2,406,475; Aug. 27.

Rogers, Howard G., Wellesley Hills, assignor to Polaroid Corporation, Cambridge, Mass. Polymerizing apparatus and method. 2,406,403; Aug. 27.

Roth, William A., St. Paul, Minn. Piston. 2,406,511; Aug. 27.

Rowe, Robert G., Niagara Falls, N. Y. Electronic amplifier and modifier. 2,406,565; Aug. 27.

Rowley, Cecil C., and L. C. Walgren, Wauneta, Nebr. Grain blower. 2,406,566; Aug. 27.

Rubin, Louis C.: *See*—
Solomon, Ernest, and Rubin.

Ryan, William, New York, N. Y. Ship guiding system. 2,406,512; Aug. 27.

Ryde, John L., Milwaukee, Wis., assignor to McCulloch Aviation, Inc., Los Angeles, Calif. Internal-combustion engine. 2,406,404; Aug. 27.

Salisbury, Frederick L., Hempstead Gardens, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Coaxial condenser crystal and making same. 2,406,405; Aug. 27.

Sampson, Harold A., Burlingame, Calif. Calk. 2,406,476; Aug. 27.

Sandretto, Peter C., Chicago, and E. P. Buckthal, Brookfield, assignors to United Air Lines, Inc., Chicago, Ill. Radio direction finder. 2,406,406; Aug. 27.

Sandretto, Peter C., Chicago, and E. P. Buckthal, Brookfield, Ill., assignor to United Air Lines, Inc. Radio direction finder. 2,406,637; Aug. 27.

Sauer, Christian H., assignor to J. T. Alm, Chico, Calif. Brake. 2,406,440; Aug. 27.

Schiessler, Fred J., Pearisburg, Va., assignor to Celanese Corporation of America. Fiber treatment. 2,406,407; Aug. 27.

Schissel, Louis, Flushing, N. Y. Clothes drier. 2,406,638; Aug. 27.

Schmerling, Louis, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reactions. 2,406,639; Aug. 27.

Schneible, Claude B., Detroit, Mich. Separating apparatus. 2,406,441; Aug. 27.

Scholz, Caesar R.: *See*—
Djerassi, Carl, Huttrer, and Scholz.

Schueneman, Aloysius J., Waukegan, Ill. Holder for cords of electrical connectors. 2,406,567; Aug. 27.

Schwarz, Benno: *See*—
Mossay, Paul A. H., Schwarz, and Barraclough.

Scientific and Industrial Research, Honorary Advisory Council for, assignee: *See*—
Griffith, Thomas R., and Orr.

Scovill Manufacturing Company, assignee: *See*—
Treciokas, Jacob P.

Sealtest, Inc., assignee: *See*—
Weisberg, Samuel M., Stimpson, Greenspan, and Othmer.

Sebell, Harry, Marblehead, Mass. Container. 2,406,568; Aug. 27.

Seltzman, David, New York, N. Y. Double sash window. 2,406,513; Aug. 27.

Sel-Mor Garment Co. Inc., assignee: *See*—
Grand-Jean, Frederick R.

Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of dihydric alcohols. 2,406,713; Aug. 27.

Seymour, George W., and W. Brooks, Cumberland, Md., assignors to Celanese Corporation of America. Treatment of textile materials. 2,406,408; Aug. 27.

Shell Development Company, assignee: *See*—
Ballard, Seaver A., and Haury.
Diamond, Hyman.

Sheridan, Hiram W., Oak Park, Ill. Dust gauge. 2,406,409; Aug. 27.

Shoe Form Co. Inc., assignee: *See*—
DeWitt, William J., and Corbett.

Shorter, Josephine, assignee: *See*—
Waters, Andrew S.

Siecke, Paul, Mount Lebanon Township, Allegheny County, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Conversion of hydrocarbons at high rates of heat input. 2,406,640; Aug. 27.

Signaigo, Frank K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of organic sulphides. 2,406,410; Aug. 27.

Signoret, Albert J., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Apparatus for producing synthetic yarn. 2,406,641; Aug. 27.

Signoret, Albert J., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Yarn production. 2,406,642; Aug. 27.

Silverstein, Morris L., Dorchester, Mass. Rubber heel. 2,406,569; Aug. 27.

Singer, Fred J.: *See*—
Kinkead, Fullerton S., Melhuish, Singer, and Smith.

Singer Manufacturing Company, The, assignee: *See*—
Hacklander, Hans.
Myers, Walter.

Smith, Edward M.: *See*—
Kinkead, Fullerton S., Melhuish, Singer, and Smith.

Smith, Elgene A.: *See*—
Welser, Harry B., Smith, and Mackay.

Smith, Harold E.: *See*—
Jacobson, Irving, and Smith.

Smith, Lawson A., assignor to R. H. Clark, Los Angeles, Calif. Fly cutter. 2,406,442; Aug. 27.

Smith, Marvin A.: *See*—
Webb, Glenn M., and Smith.

Snyder, Robert E., Pasadena, Calif. Ductile tubing connector. 2,406,478; Aug. 27.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Badertscher, Darwin E., Berger, and Bishop.
Horton, Aaron W., and Kellett.

Solomon, Ernest, Nutley, and L. C. Rubin, West Caldwell, assignors to The M. W. Kellogg Company, Jersey City, N. J. Catalyst manufacture. 2,406,477; Aug. 27.

Sonnemann, William K., Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Universal sequence-current relaying means. 2,406,411; Aug. 27.

Southworth, Augustus R., assignee: *See*—
Luckhaupt, Christopher.

Speakman, John B., and T. Barr, Leeds, England, assignors to Imperial Chemical Industries Limited. Treatment of wool fibers. 2,406,412; Aug. 27.

Specialties Development Corporation, assignee: *See*—
Heigis, Henry E.

Sperry Gyroscope Company, Inc., assignee: *See*—
Beach, Lennox F., Esval, and Lane.
Hansen, William W., and Woodyard.
Salisbury, Frederick L.

Spieth, Benjamin, assignor to Modine Manufacturing Company, Racine, Wis. Convection heater. 2,406,643; Aug. 27.

Spiral Bagging Machine Corporation, assignee: *See*—
Gardner, Percy, and Kagan.

Sprague Electric Company, assignee: *See*—
Brooks, Lester A., and Nazzewski.

Spraragen, Louis, Bridgeport, Conn., assignor to Automatic Locking Devices Incorporated. Reversible releasable clutch. 2,406,644; Aug. 27.

Sprung, Ralph D., Rosemead, Calif. Valve facing device. 2,406,570; Aug. 27.

Squire, Robert C., assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Roll V block support. 2,406,514; Aug. 27.

Stahly, Christian J., El Monte, Calif. Juice extractor. 2,406,479; Aug. 27.

Standard Electric Time Company, The, assignee: *See*—
Kenerson, Stanley M.

Standard Oil Development Company, assignee: *See*—
Harrington, Paul J.
Kuhl, Paul E., and Welty.
Lieber, Eugene.
Martin, Homer Z.
Rogers, Dilworth T., and McNab.
Young, David W., and Hineline.

Stant Manufacturing Company, assignee: *See*—
Lines, Carl H.

Stein, Frederick W., Atchison, Kans. Thermostatic switch. 2,406,443; Aug. 27.

Sterk, Borivoj V.: *See*—
Alessandroni, Hugh V., and Sterk.

Stimpson, Edwin G.: *See*—
Weisberg, Samuel M., Stimpson, Greenspan, and Othmer.

Stoehr, Walter H., Cheney, Kans. Soap container. 2,406,571; Aug. 27.

Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck release mechanism. 2,406,444; Aug. 27.

Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Heat treatment of plastics. 2,406,714; Aug. 27.

Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Uniform energy supply. 2,406,715; Aug. 27.

Studler, Aurele A., Los Angeles, Calif. Angle indicator and checking instrument. 2,406,515; Aug. 27.

Submarine Signal Company, assignee: *See*—
Batchelder, Laurence.

Suggs, Alfred M.: *See*—
Hensel, Franz R., Larsen, and Suggs.

Sumpter, Walter F.: *See*—
Bieber, Clarence G., Franke, and Sumpter.

Sun Chemical Corporation, assignee: *See*—
Neuberg, Carl A., and Roberts.

Svoboda, Ralph E., assignee: *See*—
Vogl, Walter W.

Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Direct reading densitometer. 2,406,716; Aug. 27.

Symonds, Edward L., assignee, et al.: *See*—
Neumann, Henry T.

Syncro Machine Company, assignee: *See*—
Bruestle, Carl O.

Test, Skiles E., Indianapolis, Ind. Terraced combination pool and reservoir. 2,406,413; Aug. 27.

Texaco Development Corporation, assignee: *See*—
Johnson, Elmer R.

Texas Company, The, assignee: *See*—
Barron, Joseph M.
Clarke, Louis A.
Haskell, Nelson B.
Pevere, Ernest F.
Veltman, Preston L.

Thelander, W. Vincent, and E. M. De Coursey, Auburn, Ind., and W. O. Bechman, Chicago, and W. W. Henning, River Grove, assignors to The Atwood Vacuum Machine Company, Rockford, Ill. Double clutch. 2,406,414; Aug. 27.

Thomas, Charles A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl ester co-polymerization products. 2,406,717; Aug. 27.

Thomas, Charles L., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Synthesis of aromatic compounds. 2,406,645; Aug. 27.

Thomas, Charles L.: *See*—
Lee, Edward C., and Thomas.

Thomas, Raymond E., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Embossing bowl. 2,406,718; Aug. 27.

Thompson, Charles L., Oakland, Calif. Bearing removing tool. 2,406,445; Aug. 27.

Thompson Products, Inc., assignee: *See*—
Van Epps, John N.

Threedy, Clarence E., trustee: *See*—
Tratsch, Walter A.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,406,415; Aug. 27.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Tratsch, Walter A., Chicago, Ill. Reading lamp. 2,406,480; Aug. 27.

Tratsch, Walter A., assignor to C. E. Threedy, Chicago, Ill., as trustee. Amusement apparatus. 2,406,481; Aug. 27.

Treciokas, Jacob P., Oakville, assignor to Scovill Manufacturing Company, Waterbury, Conn. Fastener setting machine. 2,406,516; Aug. 27.

Triplett, Thomas L., Encino, Calif. Vaporizing means. 2,406,517; Aug. 27.

Trobeck, Carl G.: *See*—
Bergstrom, Hilding O. V., and Trobeck.

Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Hydraulically controlled machine tool. 2,406,482; Aug. 27.

Turner, Frank D., Neenah, Wis., assignor of one-half to H. D. Meincke, Chicago, Ill. Paper garment. 2,406,416; Aug. 27.

Union Oil Company of California, assignee: *See*—
Lake, George R.

United Aircraft Corporation, assignee: *See*—
Lucke, Charles E.

United Air Lines, Inc., assignee: *See*—
Sandretto, Peter C., and Buckthal.

United-Carr Fastener Corporation, assignee: *See*—
Churchill, Wilmer H.

United Ebonite & Lorival Limited, assignee: *See*—
Davies, Benjamin L.

United Shoe Machinery Corporation, assignee: *See*—
Holmgren, Eric A.
Jorgensen, Bernhardt.

U. S. Electrical Motors, Inc., assignee: *See*—
Myers, Thomas G.

United States of America, assignee: *See*—
Goehmann, Maurice H.
Pope, Winslow B.

United States Rubber Company, assignee: *See*—
Gerndt, Paul G., and Hannum.

Universal Oil Products Company, assignee: *See*—
Lee, Edward C., and Thomas.
Mavity, Julian M.
Pines, Herman, and Ipatieff.
Schmerling, Louis, and Ipatieff.
Thomas, Charles L.
Webb, Glenn M., and Smith.

University of Tennessee Research Corporation, The, assignee: *See*—
Arnold, Harold A.

Upson, Ralph H., Pittsburgh, Pa. Stall warning device. 2,406,719; Aug. 27.

Urban, Joseph, Detroit, Mich. Knife sharpener. 2,406,519; Aug. 27.

Urbank, John C., St. Paul, Minn. Taper. 2,406,518; Aug. 27.

Van Epps, John N., Cleveland Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Yoke construction for selector cocks. 2,406,483; Aug. 27.

Van Loon, Carel J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Inductance device. 2,406,720; Aug. 27.

Varian, Russell H.: *See*—
Hansen, William W., and R. H. and S. F. Varian.
Hansen, William W., and S. F. and R. H. Varian.

Varian, Sigurd F.: *See*—
Hansen, William W., and R. H. and S. F. Varian.
Hansen, William W., and S. F. and R. H. Varian.

Veltman, Preston L., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbons. 2,406,721; Aug. 27.

Victor Chemical Works, assignee: *See*—
Woodstock, Willard H.

Vincent, John R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preserving rubber. 2,406,722; Aug. 27.

Virginia-Lincoln Corporation, assignee: *See*—
Lincoln, John D.

Vitarama Corporation, The, assignee: *See*—
Waller, Fred, Dresser, and Baker.

Viviano, Gandolph J., Ridgewood, N. J. Two-speed drive for superchargers. 2,406,417; Aug. 27.

Vogl, Walter W., Omaha, Nebr., assignor to R. E. Svoboda. Explosive perchlorates of aliphatic nitrogenous compounds. 2,406,572; Aug. 27.

Vogl, Walter W., Omaha, Nebr., assignor to R. E. Svoboda. Explosive and making. 2,406,573; Aug. 27.

Von Hortenau, Hans, assignor to S. K. M. Billman, Stockholm, Sweden. Fluid quantity measuring device. 2,406,723; Aug. 27.

Wackher, Richard C.: *See*—
Pines, Herman, and Wackher.

Walgren, Leslie C.: *See*—
Rowley, Cecil C., and Walgren.

Walker, Eric E.: *See*—
Charlton, William, Jarrett, and Walker.

Waller, Fred, Huntington, N. Y., and W. R. Dresser, Long Hill, and H. M. Baker, Essex, Conn., assignors to The Vitarama Corporation, New York, N. Y. Gunnery training. 2,406,574; Aug. 27.

Walters, Lewis, New York, N. Y. Tape dispensing machine. 2,406,418; Aug. 27.

Wang, Ta-Hang: *See*—
Bastick, Raymond E., Hampton, and Wang.

Wardwell Braiding Machine Company, assignee: *See*—
Bardsley, Willard W.

Ware, Marsden, Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 2,406,446; Aug. 27.

Washburn, Harold W., and H. Wiley, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Treating filaments of ionization gauges. 2,406,419; Aug. 27.

Waterhouse, Clifford, assignee: *See*—
Luckett, James P.

Waterman, Arthur E., assignor to James Manufacturing Company, Fort Atkinson, Wis. Tower for drying parachutes. 2,406,724; Aug. 27.

Waters, Andrew S., assignor of one-half to J. Shorter, Dallas, Tex. Crib attachment for bedsteads. 2,406,447; Aug. 27.

Weaver, Lorne W., Pontiac, Mich. Decoration support. 2,406,725; Aug. 27.

Webb, Glenn M., and M. A. Smith, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,406,646; Aug. 27.

Weber, Ion L., and M. H. Weber, Waterloo, Ontario, Canada. Caponizing instrument. 2,406,647; Aug. 27.

Weber, Mervin H.: *See*—
Weber, Ion L., and M. H.

Weimont, Joseph, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y. Counting mechanism. 2,406,726; Aug. 27.

Weisberg, Samuel M., E G. Stimpson, and J. Greenspan, Baltimore, Md., and D. F. Othmer, Brooklyn, N. Y., assignors to Sealtest, Inc., Baltimore, Md. Preparing water-soluble alkyl lactates. 2,406,648; Aug. 27.

Weiser, Harry B., Houston, Tex., E. A. Smith, Media, and J. S. Mackay, Prospect Park, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Manufacture of stable alumina and impregnated alumina catalysts. 2,406,420; Aug. 27.

Welty, Albert B., Jr.: *See*—
Kuhl, Paul E., and Welty.

Westinghouse Electric Corporation, assignee: *See*—
Bostwick, Myron A., and Lensner.
Brace, Porter H.
Chubb, Lewis W.
Cuttino, William H.
Dorfman, Hiller D.
Friedrich, Robert E.
Immel, Ralph B.
Jones, Ruel C., and M. F.
King, George E.
Leonard, Merrill G.
Lensner, Herbert W.
Ludwig, Leon R., Leeds, and Baker.
Mahoney, John R.
Mason, Robert E.
Sonnemann, William K.
Whittaker, Charles C.

Wetherbee, Harry L., assignor to A. Mohr, Jr., and J. P. Grilli, Chicago, Ill. Combined chimney and blowoff valve. 2,406,727; Aug. 27.

Wharton, George C., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Machine for finishing the handles of shovels. 2,406,728; Aug. 27.

Wheat, George G., Brooklyn, N. Y. Shipping case or crate and shook therefor. 2,406,448; Aug. 27.

White, Avis K. and D. F., Center Ossipee, N. H. Handy two-part folding screen. 2,406,729; Aug. 27.

White, Deslie F.: *See*—
White, Avis K. and D. F.

White, Eric L. C.: *See*—
Blumlein, Alan D., and White.

Whitehead, Richard H., New Haven, Conn. Vibrator. 2,406,730; Aug. 27.

Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switching apparatus. 2,406,449; Aug. 27.

Wiggins, John H., Chicago, Ill. Combined gauge hole cover and vapor line connector. 2,406,521; Aug. 27.

Wiley, Harold: *See*—
Washburn, Harold W., and Wiley.

Wilson, William W., Los Angeles, Calif. Pipe tong. 2,406,520; Aug. 27.

Winslow, Samuel J., Providence, R. I. Vanity for automobile compartments. 2,406,450; Aug. 27.

Witty, George, Long Island City, N. Y. Liquid coating composition and making same. 2,406,649; Aug. 27.

Wollner, Herbert J., Washington, D. C., J. R. Matchett, Berkeley, Calif., and J. Levine, Washington, D. C. High vacuum fractionating still. 2406,421; Aug. 27.

Wood, Ross, Waltham, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical space discharge tube. 2,406,422; Aug. 27.

Woodstock, Willard H., Flossmoor, Ill., assignor to Victor Chemical Works. Organic phosphorus and nitrogen containing compounds. 2,406,423; Aug. 27.

Woody, William E., Columbia, Mo. Combined burial casket and vault. 2,406,522; Aug. 27.

Wormell, Robert L., Coventry, assignor to Courtaulds Limited, London, England. Extraction of casein from seeds. 2,406,650; Aug. 27.

Young, David W., Roselle, N. J., and H. D. Hineline, Mount Vernon, N. Y., assignors to Standard Oil Development Company. Preparation of an improved lubricant. 2,406,575; Aug. 27.

Zabel, Robert L., Louisville, Ky. Septic tank clear water discharge system. 2,406,523; Aug. 27.

Zenith Radio Corporation, assignee: *See*—
Blauvelt, Ralph C.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Filtering apparatus. W. Smalley. Re. 22,784; Aug. 27.
Scraper. R. G. Le Tourneau. Re. 22,783; Aug. 27.

LIST OF DESIGN INVENTIONS

Alarm box, Fire. E. A. Brass. 145,472; Aug. 27.
Brooch. F. J. Gargano. 145,475–6; Aug. 27.
Compact. J. L. Stack, Jr. 145,491; Aug. 27.
Container for toys and the like. T. B. Hodge. 145,481; Aug. 27.
Desk unit, Combination. M. J. Lewis. 145,486; Aug. 27.
Figure, Bird. L. Garcia. 145,474; Aug. 27.
Fountain unit, Drinking. S. A. Whitt. 145,499; Aug. 27.
Frame and illuminable mirror, Combination picture. V. H. T. McFarland. 145,487; Aug. 27.
Frame, Lapel watch. D. Taylor. 145,492–5; Aug. 27.
Handbag. B. Calem. 145,473; Aug. 27.
Lighter, Cigar and cigarette. L. H. Kirkell. 145,484; Aug. 27.
Projector, Combined film and sound. W. W. Ward. 145,498; Aug. 27.
Sharpener, Pencil. J. W. Hauser. 145,477; Aug. 27.
Slipper or similar article. K. Keyes. 145,482–3; Aug. 27.
Stove grid. H. H. Miller. 145,489; Aug. 27.
Tablecloth or similar article. V. Helsley. 145,478–80; Aug. 27.
Tablecloth or similar article. N. F. Mamoulian. 145,488; Aug. 27.
Textile fabric or similar article. J. Koret. 145,485; Aug. 27.
Trimming or similar article, Embroidered. H. Tobler. 145,496–7; Aug. 27.
Watch, Wrist. M. Ostier. 145,490; Aug. 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF AUGUST, 1946

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article and making the same. S. S. Kistler. 2,406,385; Aug. 27.
Acylaceto guanazols. A. Bavley. 2,406,654; Aug. 27.
Adjustment of resonant cavities, Frequency. D. H. Ring. 2,406,402; Aug. 27.
Airplane. G. W. Cornelius. 2,406,588; Aug. 27.
Airplane. T. W. Oglesby. 2,406,625; Aug. 27.
Airplane, All-wing. J. K. Northrop. 2,406,506; Aug. 27.
Alkamine derivatives of para aminomethyl benzoic acid. R. P. Parker and A. J. Hill. 2,406,627; Aug. 27.
Alloy: *See*—
High temperature alloy.
Allyl and methallyl ether esters, Preparing. G. F. D'Alelio. 2,406,590; Aug. 27.
Amino-carboxylic acid esters of monoglycerides. B. R. Harris. 2,406,329; Aug. 27.
Amplifier and modifier, Electronic. R. G. Rowe. 2,406,565; Aug. 27.
Amusement apparatus. W. A. Tratsch. 2,406,481; Aug. 27.
Apparatus for applying rotating bands to projectile shells. A. Minarik, Jr., and S. H. R. Ericson. 2,406,392; Aug. 27.
Apparatus for forming skis, etc. E. R. Patchen. 2,406,628; Aug. 27.
Apparatus for furnace ports, Cooling. E. W. Pottmeyer. 2,406,399; Aug. 27.
Apparatus for indicating or measuring distances, Electrical. A. D. Blumlein. 2,406,529; Aug. 27.
Apparatus for making spiral wound tubing. P. Gardner and R. Kagan. 2,406,677; Aug. 27.
Apparatus for producing synthetic yarns. A. J. Signoret. 2,406,641; Aug. 27.
Attachment for bedsteads, Crib. A. S. Waters. 2,406,447; Aug. 27.
Automatic hydraulic clutch. J. L. Landrum. 2,406,612; Aug. 27.
Azetropic distillation of methanol from admixture with acrylic esters. C. E. Rehberg. 2,406,561; Aug. 27.
Bag. C. V. Brady. 2,406,660; Aug. 27.
Bath for ferrous metals, Pickling. A. D. Johnson. 2,406,379; Aug. 27.
Beam, Warp. O. V. Payne. 2,406,434; Aug. 27.
Beam with warp holding means, Warp. O. V. Payne. 2,406,435; Aug. 27.
Bearing removing tool. C. L. Thompson. 2,406,445; Aug. 27.
Bearing support. T. G. Myers. 2,406,505; Aug. 27.
Bed, Folding doll. A. M. Hambacher. 2,406,496; Aug. 27.
Blade, Reinforced propeller. L. H. Enos. 2,406,457; Aug. 27.
Blade, Reinforced propeller. J. H. McKee. 2,406,471; Aug. 27.
Blower, Grain. C. C. Rowley and L. C. Walgren. 2,406,566; Aug. 27.
Blower, Soot. T. G. Hoglund and G. E. Leijon. 2,406,687; Aug. 27.
Bodies, Marking. J. Mrazek. 2,406,705; Aug. 27.
Boiler. A. Drummond. 2,406,673; Aug. 27.
Bonds in laminated structures, Curing adhesive. H. W. Hall. 2,406,680; Aug. 27.
Boost device for reducing control forces on airplanes, Rotary electrical. J. S. W. Davidsen. 2,406,356. Aug. 27.
Bottle attachment, Milk. R. W. Leslie. 2,406,696; Aug. 27.
Bowl, Embossing. R. E. Thomas. 2,406,718; Aug. 27.
Bracket for supporting oxygen bottles or the like. W. C. Keller and L. F. Fuday. 2,406,334; Aug. 27.
Brake. C. H. Sauer. 2,406,440; Aug. 27.
Brake mechanism, Power. R. R. Gunderson. 2,406,328; Aug. 27.
Brazing, Beryllium. G. J. Agule. 2,406,310; Aug. 27.
Breast support. H. Ax. 2,406,576; Aug. 27.
Bristle setting. K. V. Hardman. 2,406,732; Aug. 27.
Building construction, Corrugated. L. H. Dickelman. 2,406,593; Aug. 27.
Bust separator. F. Lustig. 2,406,699; Aug. 27.
Cable joint. A. F. Gambitta. 2,406,676; Aug. 27.
Cadmium, yellow pigment, Manufacture of. L. F. Nerlinger. 2,406,472; Aug. 27.
Caging mechanism. G. Long. 2,406,698; Aug. 27.
Calk. H. A. Sampson. 2,406,476; Aug. 27.
Camera. J. N. Graef. 2,406,366; Aug. 27.
Canister, Gas mask. W. E. Gross. 2,406,368; Aug. 27.
Cap: *See*—
Radiator pressure cap. Valve cap.
Caponizing instrument. I. L. Weber and M. H. Weber. 2,406,647; Aug. 27.
Carrier and carton, Foldable end wall. W. A. Ringler. 2,406,711; Aug. 27.
Case or crate and shook therefor, Shipping. G. G. Wheat. 2,406,448; Aug. 27.
Casein from seeds, Extraction of. R. L. Wormell. 2,406,650; Aug. 27.
Casket and vault, Combined burial. W. E. Woody. 2,406,522; Aug. 27.
Catalyst manufacture. E. Solomon and L. C. Rubin. 2,406,477; Aug. 27.
Catalysts, Manufacture of. G. M. Webb and M. A. Smith. 2,406,646; Aug. 27.
Catalytic cracking process. P. E. Kuhl and A. B. Welty, Jr. 2,406,547; Aug. 27.
Catalytic reactions. L. Schmerling and V. N. Ipatieff. 2,406,689; Aug. 27.
Change mechanism, Intermittent feed. S. L. Casella. 2,406,664; Aug. 27.
Chocolate dipped peanut attachment. F. Petrovic. 2,406,437; Aug. 27.
Circuit interrupter. H. D. Dorgman. 2,406,325; Aug. 27.
Circuit interrupter. L. R. Ludwig, W. M. Leeds, and B. P. Baker. 2,406,469; Aug. 27.
Clip. O. G. Blocher. 2,406,315; Aug. 27.
Closure, Bag. C. V. Brady. 2,406,661; Aug. 27.
Closure fastener. G. R. Gibson. 2,406,459; Aug. 27.
Clothes drier. L. Schissel. 2,406,638; Aug. 27.
Clutch: *See*—
Automatic hydraulic clutch. Reversible releasable clutch.
Double clutch.
Coating apparatus. W. D. Maxim and E. Hutchins. 2,406,470; Aug. 27.
Coating composition and making same, Liquid. G. Witty. 2,406,649; Aug. 27.
Coating compositions. L. M. Kebrich and E. P. Peterson. 2,406,609; Aug. 27.
Coatings for cellulose acetate plastics. C. Bogin. 2,406,658; Aug. 27.
Collapsible table. K. Peter. 2,406,436; Aug. 27.
Comb, Hair curling. D. A. Day. 2,406,490; Aug. 27.
Combined chimney and blowoff valve. H. L. Wetherbee. 2,406,727; Aug. 27.
Combined gauge hole cover and vapor line connector. J. H. Wiggins. 2,406,521; Aug. 27.
Combustion improving apparatus. J. E. Pernet. 2,406,398; Aug. 27.
Communication between ships. W. B. Ellwood. 2,406,360; Aug. 27.
Communication, Speech privacy. F. G. Buhrendorf. 2,406,347; Aug. 27.
Compensator, Electric. L. Batchelder. 2,406,340; Aug. 27.
Condenser crystal and making same. Coaxial. F. L. Salisbury. 2,406,405; Aug. 27.
Conductor, Insulated electrical. L. A. Brooks and M. Nazzewski. 2,406,319; Aug. 27.
Connector: *See*—
Combined gauge hole cover and vapor line connector. Ductile connector. Electrical connector.
Connecting and supporting unit, Structural. P. Kratzmaier. 2,406,501; Aug. 27.
Connector element, Rigging. J. A. Jensen. 2,406,607; Aug. 27.
Construction for selector cocks, Yoke. J. N. Van Epps. 2,406,483; Aug. 27.
Contact structure. R. E. Friedrich. 2,406,327; Aug. 27.
Container: *See*—
Soap container.
Container. H. Sebell. 2,406,568; Aug. 27.
Container and closure. R. W. Hoag. 2,406,331; Aug. 27.
Container and making same. J. D. Gerahty. 2,406,678; Aug. 27.
Container such as those of electric accumulators, Liquid. B. L. Davies. 2,406,592; Aug. 27.
Control apparatus, Remote. A. P. Davis and G. Agins. 2,406,323; Aug. 27.
Control for plows, Depth. T. Allen. 2,406,484; Aug. 27.
Control means for liquid supply systems. H. B. Holthouse. 2,406,604; Aug. 27.
Control system. G. E. King. 2,406,424; Aug. 27.
Control system, Electronic. J. R. Mahoney. 2,406,429; Aug. 27.
Control system, Gun. A. P. Davis. 2,406,324; Aug. 27.

Control unit and dump valve. B. N. Ashton and E. V. Barkow. 2,406,524; Aug. 27.
Convection heater. B. Spieth. 2,406,643; Aug. 27.
Cooling structure for aircraft engines, Axial flow. C. E. Lucke. 2,406,552; Aug. 27.
Cooling structure for aircraft engines, Cylinder. C. E. Lucke. 2,406,551; Aug. 27.
Counting mechanism. J. Welmont. 2,406,726; Aug. 27.
Coupling device for pipes or tubes. W. H. J. Brock. 2,406,488; Aug. 27.
Cover for containers, Detachable. O. Rasor. 2,406,636; Aug. 27.
Cushion mounting. G. W. Fyler. 2,406,601; Aug. 27.
Cutter: *See*—
  Fly cutter.
Cyclo-olefinic hydrocarbons and aromatic hydrocarbons, Production of. H. Pines and V. N. Ipatieff. 2,406,630–2; Aug. 27.
Decoration support. L. W. Weaver. 2,406,725; Aug. 27.
De-icing or anti-icing means, Fan. E. P. Palmatier. 2,406,473; Aug. 27.
Densitometer, Direct reading. M. H. Sweet. 2,406,716; Aug. 27.
Desiccation method and apparatus. N. V. Hayes and W. B. Humes. 2,406,682; Aug. 27.
Detecting apparatus and method, Object. W. W. Hansen and R. H. and S. F. Varian. 2,406,371; Aug. 27.
Device for lubricating monotype keyboards. L. G. Bakal. 2,406,651; Aug. 27.
Device for measuring low direct voltages. C. Dorsman. 2,406,492; Aug. 27.
Device for selection of articles of wearing apparel. F. R. Grand-Jean. 2,406,495; Aug. 27.
Device for sorting, dehydrating, or washing of suspensions of fibrous materials. K. O. Lindgren. 2,406,618; Aug. 27.
Diaphragm control. H. R. Long. 2,406,550; Aug. 27.
Dihydric alcohols, Recovery of. M. Senkus. 2,406,713; Aug. 27.
Direction finder. Radio. P. C. Sandretto and E. P. Buckthal. 2,406,406; Aug. 27.
Direction-indicating system. B. D. Loughlin. 2,406,468; Aug. 27.
Discharge system, Septic tank clear water. R. L. Zabel. 2,406,523; Aug. 27.
Dish and toast rack, Combination covered butter. T. L. Daniels. 2,406,669; Aug. 27.
Disk mounting. J. Mader. 2,406,553; Aug. 27.
Dispensing device, Deodorant. S. J. Benn. 2,406,314; Aug. 27.
Dispensing machine, Tape. L. Walters. 2,406,418; Aug. 27.
Domestic appliance. D. K. Ferris. 2,406,494; Aug. 27.
Door: *See*—
  Landing gear housing door.
Double clutch. W. V. Thelander, E. M. De Coursey, W. O. Bechman, and W. W. Henning. 2,406,414; Aug. 27.
Drier: *See*—
  Clothes drier.
Drive for motion-picture projectors, Sprocket. C. W. Dyer. 2,406,595; Aug. 27.
Drive for super-chargers, Two-speed. G. J. Viviano. 2,406,417; Aug. 27.
Ductile tubing connector. R. E. Snyder. 2,406,478; Aug. 27.
Dust gauge. H. W. Sheridan. 2,406,409; Aug. 27.
Dyestuff composition. E. W. Clark. 2,406,586; Aug. 27.
Edging machine. G. W. Jackson. 2,406,606; Aug. 27.
Electric motor. R. Lee. 2,406,389; Aug. 27.
Electrical connector. S. N. Buchanan. 2,406,346; Aug. 27.
Electrical space discharge tube. R. Wood. 2,406,422; Aug. 27.
Electrical switch and outlet box mounting. J. B. Cooper. 2,406,587; Aug. 27.
Electrode and making same. J. B. Brennan. 2,406,345; Aug. 27.
Electrode holder. A. C. Gough. 2,406,365; Aug. 27.
Energy converting means for internal-combustion engine, Exhaust. R. Birmann. 2,406,656; Aug. 27.
Energy supply, Uniform. H. A. Strickland, Jr. 2,406,715; Aug. 27.
Engine: *See*—
  Internal-combustion engine.
Eraser. C. A. Brewer. 2,406,487; Aug. 27.
Evaporation losses, Reducing. P. J. Harrington. 2,406,540; Aug. 27.
Exercising machine. G. Bergfors. 2,406,344; Aug. 27.
Expander, Piston ring. A. G. Fawns. 2,406,533; Aug. 27.
Explosive and making. W. W. Vogl. 2,406,573; Aug. 27.
Explosive perchlorates of aliphatic nitrogenous compounds. W. W. Vogl. 2,406,572; Aug. 27.
Extinguisher. J. B. Hinson. 2,406,685; Aug. 27.
Extractor: *See*—
  Juice extractor.
Fabric for concrete constructions. W. Oakes. 2,406,559; Aug. 27.
Facing device, Valve. R. D. Sprung. 2,406,570; Aug. 27.
Fan control, Engine. W. R. Bonham. 2,406,486; Aug. 27.
Fastener: *See*—
  Closure fastener.
Fastener for edges of wearing apparel and the like. D. Blair. 2,406 528; Aug. 27.
Fastening device. G. A. Tinnerman. 2,406,415; Aug. 27.
Feed, Self-acting stock. R. A. Papsdorf. 2,406,508; Aug. 27.
Feeder: *See*—
  Poultry feeder.
Ferrous article, Ceramic coated. L. D. Fetterolf. 2,406,534; Aug. 27.
Fiber treatment. F. J. Schiessler. 2,406,407; Aug. 27.
Fiber, Treatment of staple. H. Howorth and L. C. Holt. 2,406,542; Aug. 27.
Fibrous bristles, Making. J. Overbeke. 2,406,707; Aug. 27.
Filaments of ionization gauges, Treating. H. W. Washburn and H. Wiley. 2,406,419; Aug. 27.
Filler, Matrix. A. W. Davis. 2,406,322; Aug. 27.
Filling unit, Fountain pen. W. J. Heagney. 2,406,330; Aug. 27.
Firing mechanism for training arms, Imitation. W. G. Dunn. 2,406,493; Aug. 27.
Fishhook making machine. W. J. De Witt and H. A. Corbett. 2,406,456; Aug. 27.
Fitting for tanks, Access door. F. J. Pepersack. 2,406,708; Aug. 27.
Fixture for grinding wheel and tool forms. E. M. Looney. 2,406,467; Aug. 27.
Flexible pocket receptacle. R. E. Dingman. 2,406,672; Aug. 27.
Flotation machine. A. W. Fahrenwald. 2,406,532; Aug. 27.
Flowerpot. R. K. Pratt, Sr. 2,406,439; Aug. 27.
Fluid tank. R. B. Gray and J. C. De Weese. 2,406,679; Aug. 27.
Fly cutter. L. A. Smith. 2,406,442; Aug. 27.
Fractionating column. W. N. Hoyte. 2,406,375; Aug. 27.
Friction assembly, Bonded. C. S. Batchelor. 2,406,653; Aug. 27.
Frictional mechanism. W. H. Hunter. 2,406,543; Aug. 27.
Fuel and using same. Motor. E. R. Johnson. 2,406,544; Aug. 27.
Fuels and making same, Motor. L. A. Clarke. 2,406,667; Aug. 27.
Gain control, Automatic. L. E. Norton. 2,406,433; Aug. 27.
Game device. L. H. Amdur. 2,406,731; Aug. 27.
Garment, Paper. F. D. Turner. 2,406,416; Aug. 27.
Gasoline, Production of aviation. R. H. Newton. 2,403,394; Aug. 27.
Gauge: *See*—
  Dust gauge.
Generator: *See*—
  Oscillator generator.
Glasses, Optical. R. E. Bastick, W. M. Hampton, and T.-H. Wang. 2,406,580; Aug. 27.
Greases, Manufacturing lithium base. A. R. Bax, H. F. Kielhorn, and W. E. Forney. 2,406,655; Aug. 27.
Ground speed meter. S. Doba, Jr. 2,406 358; Aug. 27.
Guiding system, Ship. W. Ryan. 2,406,512; Aug. 27.
Gunnery training. F. Waller, W. R. Dresser, and H. M. Baker. 2,406,574; Aug. 27.
Gyroscope, Directional. L. F. Beach, O. E. Esval, and A. W. Lane. 2,406 341; Aug. 27.
Hair foundation. W. Huppert. 2,406,376; Aug. 27.
Handy two-part folding screen. A. K. and D. F. White. 2,406,729; Aug. 27.
Harvester reel. A. W. Oehler and E. J. Johnson. 2,406,706; Aug. 27.
Heater: *See*—
  Convection heater.
Heel, Rubber. M. L. Silverstein. 2,406,569; Aug. 27.
High-frequency apparatus. W. W. Hansen and J. R. Woodyard. 2,406,372; Aug. 27.
High temperature alloy. S. O. Fisher. 2,406,363; Aug. 27.
Hoisting device for dump trucks and other vehicles. J. P. Luckett. 2,406,620; Aug. 27.
Holder: *See*—
  Electrode holder.
  Necktie holder.
Holder for cords of electrical connectors. A. J. Schuenemann. 2,406,567; Aug. 27.
Honing machine. E. F. Moon. 2,406,556; Aug. 27.
Hose pump. H. A. Arnold. 2,406,485; Aug. 27.
Hydraulically controlled machine tool. W. R. Tucker. 2,406,482; Aug. 27.
Hydrocarbon oil, Conversion of. E. C. Lee and C. L. Thomas. 2,406,613–14; Aug. 27.
Hydrocarbon oils, Conversion of. H. Z. Martin. 2,406,555; Aug. 27.
Hydrocarbon oils, Cracking and coking. J. M. Barron. 2,406,312; Aug. 27.
Hydrocarbon oils, Cracking and coking of. J. M. Barron. 2,406,313; Aug. 27.
Hydrocarbons at high rates of heat input, Conversion of. P. Siecke. 2,406,640; Aug. 27.
Hydrocarbons by distillation, Separation of. G. R. Lake. 2,406,695; Aug. 27.
Hydrocarbons, Catalytic conversion of. N. B. Haskell. 2,406,681; Aug. 27.

Hydrocarbons, Catalytic conversion of. P. L. Veltman. 2,406,721; Aug. 27.
Hydrocarbons, Conversion of. J. M. Mavity. 2,406,622; Aug. 27.
Hydrocarbons, Isomerization of saturated. H. Pines and R. C. Wackher. 2,406,633–4; Aug. 27.
Hydrocarbons, Producing olefinic. A. W. Horton and J. Kellett, III. 2,406,688; Aug. 27.
Hydrogenation of halogenosilanes. D. T. Hurd. 2,406,605; Aug. 27.
Indicating system. W. M. Kellogg. 2,406,382; Aug. 27.
Indicator and checking instrument, Angle. A. A. Studler. 2,406,515; Aug. 27.
Inductance device. C. J. van Loon. 2,406,720; Aug. 27.
Inertia safety switch. M. G. Leonard. 2,406,427; Aug. 27.
Installation and attaching clip therefor, Covering. W. H. Churchill. 2,406,665; Aug. 27.
Internal-combustion engine. B. A. de Waern. 2,406,491; Aug. 27.
Internal-combustion engine. J. L. Ryde. 2,406,404; Aug. 27.
Internal-combustion engine. M. Ware. 2,406,446; Aug. 27.
Invertase preparations, Manufacturing. C. A. Neuberg and I. S. Roberts. 2,406,624; Aug. 27.
Iron from titaniferous ores, Extraction of. H. V. Alessandroni and B. V. Sterk. 2,406,577; Aug. 27.
Isomeric triazole derivatives and preparing the same, Mixtures of. G. F. D'Alelio. 2,406,591; Aug. 27.
Isoparaffins with ethylene, Alkylation of. E. F. Pevere. 2,406,709; Aug. 27.
Joint: *See*—
  Cable joint.
  Lubricated rail joint.
Joint construction. J. D. Lincoln. 2,406,697; Aug. 27.
Juice extractor. C. J. Stahly. 2,406,479; Aug. 27.
Ketols from isophorones and homologues thereof. S. A. Ballard and V. E. Haury. 2,406,652; Aug. 27.
Keyless lock. W. W. Hurtel. 2,406,332; Aug. 27.
Knitting machine. W. W. Bardsley. 2,406,525; Aug. 27.
Lamp: *See*—
  Reading lamp.
Landing gear housing door. W. M. Riggles, Jr. 2,406,710; Aug. 27.
Lapping machine. H. S. Indge and G. E. Hulbert. 2,406,690; Aug. 27.
Lapping machine, Cam. H. S. Indge. 2,406,689; Aug. 27.
Last and sole forming machine, Vacuum. W. H. Doherty. 2,406,359; Aug. 27.
Lasting machine. B. Jorgensen. 2,406,463; Aug. 27.
Latching device, Vibratory. R. B. Immel. 2,406,378; Aug. 27.
Lever control, Differential rudder. P. G. Holt. 2,406,374; Aug. 27.
Light system, Recognition. L. W. Chubb. 2,406,320; Aug. 27.
Link, Chain. W. K. Robbins. 2,406,712; Aug. 27.
Liquors, Utilizing waste. H. O. V. Bergström and K. G. Trobeck. 2,406,581; Aug. 27.
Lock: *See*—
  Keyless lock.
  Wrapping wire reinforcing retainer lock.
Lock device. M. Katz. 2,406,464; Aug. 27.
Locking apparatus, Turbine blade. C. H. Morris. 2,406,703; Aug. 27.
Locking mechanism for directional gyroscopes. L. F. Beach, O. E. Esval, and A. W. Lane. 2,406,342; Aug. 27.
Lubricant containing condensation product. E. Lieber. 2,406,549; Aug. 27.
Lubricant, Preparation of an improved. D. W. Young and H. D. Hineline. 2,406,575; Aug. 27.
Lubricated rail joint. E. W. Caruthers. 2,406,452; Aug. 27.
Lubricator: *See*—
  Mechanical lubricator.
Machine for applying pneumatic pressure to cast metals. E. O. Jensen. 2,406,333; Aug. 27.
Machine for finishing the handles of shovels. G. C. Wharton. 2,406,728; Aug. 27.
Machine for use in the manufacture of prewelt shoes. E. A. Holmgren. 2,406,462; Aug. 27.
Magnetic control. I. L. Case. 2,406,489; Aug. 27.
Measuring device, Fluid quantity. H. von Hortenau. 2,406,723; Aug. 27.
Meats containing fats in a fluid current, Dehydrating. W. A. Noel. 2,406,395; Aug. 27.
Mechanical lubricator. B. E. Folke. 2,406,599; Aug. 27.
Mechanism for pressure discharge of streams of liquid. M. B. Boyce. 2,406,659; Aug. 27.
Medical appliance. J. A. Forestiere. 2,406,600; Aug. 27.
Metal bodies preparatory to hot working, Heating. K. Marsh. 2,406,554; Aug. 27.
Meter: *See*—
  Ground speed meter.
Methyl isopropenyl ketone, Polymerization of. J. W. Heyd. 2,406,684; Aug. 27.
Microscope. A. H. Bennett and O. W. Richards. 2,406,526; Aug. 27.
Mill: *See*—
  Sugar cane mill.
Mixing machine. D. S. Foote. 2,406,535; Aug. 27.
Modification of fatty oils. L. Auer. 2,406,337; Aug. 27.
Mold for use in the manufacture of optical elements. M. N. Fairbank and D. P. Cooper, Jr. 2,406,361; Aug. 27.
Mold for use in the manufacture of optical elements. J. H. Richardson. 2,406,401; Aug. 27.
Molding apparatus. M. M. Cunningham. 2,406,589; Aug. 27.
Motor: *See*—
  Electric motor.
  Reversible single phase motor.
  Rocket motor.
Mounting: *See*—
  Cushion mounting.
  Disk mounting.
  Electrical switch and outlet box mounting.
Mover for electric catapults, Prime. R. C. Jones and M. F. Jones. 2,406,381; Aug. 27.
Necktie holder. M. Pumps. 2,406,400; Aug. 27.
Needle-controlling mechanism for knitting machines. R. Bassist. 2,406,579; Aug. 27.
Nitro ketals and preparation thereof. G. H. Morey. 2,406,504; Aug. 27.
Nut and screw mechanism. O. L. Beardsley. 2,406,343; Aug. 27.
Oil, Compounded lubricating. D. T. Rogers and J. G. McNab. 2,406,564; Aug. 27.
Oil, Cutting. H. Diamond. 2,406,671; Aug. 27.
Opening device, Envelope. F. A. Kelsall. 2,406,610; Aug. 27.
Optical means for inspection. R. F. Borkenstein. 2,406,451; Aug. 27.
Organic phosphorous and nitrogen containing compounds. W. H. Woodstock. 2,406,423; Aug. 27.
Organic solvent-soluble unsaturated carbohydrate ethers and products produced thereby, Preparation of. R. M. Hamilton and P. L. Nichols, Jr. 2,406,369; Aug. 27.
Orientation, Article. G. W. Ashlock, Jr. 2,406,311; Aug. 27.
Orthodontic appliance. J. D. Berke. 2,406,527; Aug. 27.
Oscillation generator. H. T. Friis and V. C. Rideout. 2,406,364; Aug. 27.
Oscillator-detector, Electronic. W. W. Hansen and S. F. and R. H. Varian. 2,406,370; Aug. 27.
Paper or textile fabrics, Treatment of. W. Charlton, S. G. Jarrett, and E. E. Walker. 2,406,453–4; Aug. 27.
Para nitroacetanilide, Production of. E. H. Bart. 2,406,578; Aug. 27.
Part for bolts or screw studs and its use, Drilling anchor. A. W. Gelpcke. 2,406,536; Aug. 27.
Peat, Method of and apparatus for carbonizing. C.-W. Pilo. 2,406,509; Aug. 27.
Phonograph, Automatic. J. A. Darwin and R. Robertson. 2,406,355; Aug. 27.
Pickup, Electric. H. T. Faus. 2,406,597; Aug. 27.
Piston. W. A. Roth. 2,406,511; Aug. 27.
Plastic composition, Metal containing. C. Luckhaupt. 2,406,428; Aug. 27.
Plasticizers. W. P. Bitler and L. Nicholl. 2,406,657; Aug. 27.
Plunger, Double suction. G. Bonde. 2,406,317; Aug. 27.
Polymerizing apparatus and method. H. G. Rogers. 2,406,403; Aug. 27.
Polysiloxane resins, Preparing. J. Marsden. 2,406,621; Aug. 27.
Pool and reservoir, Terraced combination. S. E. Test. 2,406,413; Aug. 27.
Portable apparatus. R. C. Blauvelt. 2,406,583; Aug. 27.
Post construction, Making wooden. A. B. Lank. 2,406,387; Aug. 27.
Pot, Cinder. W. Johnston, Jr. 2,406,380; Aug. 27.
Poultry feeder. H. Niere. 2,406,432; Aug. 27.
Press for trim tile, Mechanically-actuated. R. List and A. Flynn. 2,406,619; Aug. 27.
Pressure system, Auxiliary fluid. B. R. Pool. 2,406,510; Aug. 27.
Prevention and removal of ice or frost on aircraft parts. T. R. Griffith and J. L. Orr. 2,406,367; Aug. 27.
Privacy system, Speech. W. A. MacNair. 2,406,351; Aug. 27.
Process. M. W. Farlow. 2,406,362; Aug. 27.
Propeller system, Dual rotation. R. M. Guerke. 2,406,460; Aug. 27.
Prospecting method, Geochemical. H. T. Kennedy. 2,406,611; Aug. 27.
Protection means and making the same, Eye. W. J. Joyce. 2,406,608; Aug. 27.
Pump: *See*—
  Hose pump.
Purging apparatus, Tank. H. E. Heigis. 2,406,373; Aug. 27.
Radiator pressure cap. C. H. Lines. 2,406,502; Aug. 27.
Radio beacon system, Equisignal. W. J. O'Brien. 2,406,396; Aug. 27.
Radio direction, Finder. P. C. Sandretto and E. P. Buckthal. 2,406,637; Aug. 27.
Radio pulse system with interference eliminator. A. D. Blumlein and E. L. C. White. 2,406,316; Aug. 27.
Reading lamp. W. A. Tratsch. 2,406,480; Aug. 27.
Receptacle: *See*—
  Flexible pocket receptacle.
Recharger, Machine gun. K. M. Hammell. 2,406,461; Aug. 27.
Recoilless mechanism for guns and mortars. M. H. Goehmann. 2,406,537; Aug. 27.
Reducer, Hat size. I. B. Hiller. 2,406,700; Aug. 27.

Reducer, Hat size. I. B. Miller. 2,406,701; Aug. 27.
Reel: *See*—
Harvester reel.
Refrigerating apparatus. C. F. Petkwitz. 2,406,629; Aug. 28.
Registering device, Punch board. J. S. Hadesbeck. 2,406,603; Aug. 27.
Relay. M. A. Bostwick and H. W. Lensner. 2,406,584; Aug. 27.
Relay system. H. W. Lensner. 2,406,617; Aug. 27.
Relaying, Carrier-current. H. W. Lensner. 2,406,615; Aug. 27.
Relaying means, Universal sequence-current. W. K. Sonnemann. 2,406,411; Aug. 27.
Relaying system, Carrier-current protective. H. W. Lensner. 2,406,616; Aug. 27.
Release mechanism, Chuck. A. M. Stoner. 2,406,444; Aug. 27.
Resinous materials, Production of. D. E. Badertscher, H. G. Berger, and R. B. Bishop. 2,406,339; Aug. 27.
Resins, Acrylic. H. T. Neumann. 2,406,558; Aug. 27.
Resistance, Variable electrical. L. W. Miller. 2,406,503; Aug. 27.
Reversible releasable clutch. L. Spraragen. 2,406,644; Aug. 27.
Reversible single phase motor. R. E. Mason. 2,406,430; Aug. 27.
Rocket motor. W. B. Pope. 2,406,560; Aug. 27.
Roll V block support. R. C. Squire. 2,406,514; Aug. 27.
Rolling machine, Cigarette. E. C. Gallup. 2,406,675; Aug. 27.
Rosin treatment. L. Auer. 2,406,338; Aug. 27.
Rubber from metal, Removing. P. G. Gerndt and J. A. Hannum. 2,406,458; Aug. 27.
Rubber, Preserving. J. R. Vincent. 2,406,722; Aug. 27.
Safety device for stranders. C. O. Bruestle. 2,406,530; Aug. 27.
Salts and preparation thereof, Solid complex metal ammine. G. Jones and W. Juda. 2,406,692; Aug. 27.
Screen: *See*—
Handy two-part folding screen.
Sealing devices, Making. J. W. Hobbs. 2,406,686; Aug. 27.
Selenium dioxide, Making. C. W. Clark and E. M. Elkin. 2,406,666; Aug. 27.
Sensitometer. H. W. Morreall, Jr. 2,406,702; Aug. 27.
Separating apparatus. C. B. Schneible. 2,406,441; Aug. 27.
Separator: *See*—
Bust separator.
Setting machine, Fastener. J. P. Treciokas. 2,406,516; Aug. 27.
Sharpener, Knife. J. Urban. 2,406,519; Aug. 27.
Shears, Pruning. J. F. Belgado. 2,406,670; Aug. 27.
Shield, Face. O. S. Flood. 2,406,598; Aug. 27.
Signal device, Electric. S. M. Kenerson. 2,406,545; Aug. 27.
Signaling, Secret. F. G. Buhrendorf. 2,406,349; Aug. 27.
Signaling, Secret. O. Myers. 2,406,353; Aug. 27.
Signals, Amplifying high-frequency. S. Ramo. 2,406,635; Aug. 27.
Soap container. W. H. Stoehr. 2,406,571; Aug. 27.
Springs, Electroplated drift free. F. R. Hensel, E. I. Larsen, and A. M. Suggs. 2,406,683; Aug. 27.
Square and bevel, Combination. L. A. Dahle. 2,406,531; Aug. 27.
Stabilizer, Welding arc. W. W. Perrin. 2,406,474; Aug. 27.
Stable alumina and impregnated alumina catalysts, Manufacture of. H. B. Weiser, E. A. Smith, and J. S. Mackay. 2,406,420; Aug. 27.
Stair construction. M. Hurley. 2,406,497; Aug. 27.
Stamping, Hoe wheel plate. G. E. Karl. 2,406,500; Aug. 27.
Starch, Gelatinization of. B. F. Buchanan and R. L. Lloyd. 2,406,585; Aug. 27.
Staybolts, Manufacture of hollow. G. R. Greenslade and F. K. Landgraf. 2,406,539; Aug. 27.
Still, High vacuum fractionating. H. J. Wollner, J. R. Matchett, and J. Levine. 2,406,421; Aug. 27.
Structural member. H. S. Nagin. 2,406,557; Aug. 27.
Sugar cane mill. A. M. Hewlett. 2,406,541; Aug. 27.
Sulphides, Production of organic. F. K. Signaigo. 2,406,410; Aug. 27.
Sulphur from molten metallic masses, Removal of. C. G. Rieber, B. E. E. Franke, and W. F. Sumpter. 2,406,582; Aug. 27.
Supervisory apparatus. P. H. Brace. 2,406,318; Aug. 27.
Support: *See*—
Bearing support.
Breast support.
Decoration support.
Roll V block support.
Switch: *See*—
Inertia safety switch.
Thermostatic switch.
Switching apparatus. R. H. Jordan. 2,406,693; Aug. 27.
Switching apparatus. C. C. Whittaker. 2,406,449; Aug. 27.
Switching device. W. H. Cuttino. 2,406,321; Aug. 27.
Switching mechanism for signal systems. H. C. Harrison. 2,406,350; Aug. 27.
Synchronizer, Camera and light. I. Jacobson and H. E. Smith. 2,406,691; Aug. 27.
Synthesis of aromatic compounds. C. L. Thomas. 2,406,645; Aug. 27.
Table: *See*—
Collapsible table.
Tank: *See*—
Fluid tank.
Taper. J. C. Urbank. 2,406,518; Aug. 27.
Telephone privacy. W. A. Munson. 2,406,352; Aug. 27.
Telephony, Secret. F. G. Buhrendorf. 2,406,348; Aug. 27.
Terminal, Electrical. W. J. Kindermann. 2,406,383; Aug. 27.
Tertiary amines of heterocyclic compound. C. Djerassi, C. P. Huttrer, and C. R. Scholz. 2,406,594; Aug. 27.
Tester, Glove-size. R. C. Koepnick, D. I. Patt, and F. E. Randall. 2,406,386; Aug. 27.
Testing means, Eye. C. A. Ellis. 2,406,596; Aug. 27.
Textile materials, Treatment of. G. W. Seymour and W. Brooks. 2,406,408; Aug. 27.
Thermostatic switch. F. W. Stein. 2,406,443; Aug. 27.
Time limit device, Adjustable. R. B. Immel. 2,406,377; Aug. 27.
Titanium oxide pigment production. J. L. Keats. 2,406,465; Aug. 27.
Toilet, Ventilating and deodorizing. F. L. Owens. 2,406,507; Aug. 27.
Tong, Pipe. W. W. Wilson. 2,406,520; Aug. 27.
Tool: *See*—
Bearing removing tool.
Hydraulically controlled machine tool.
Tool. H. J. Engbecht. 2,406,326; Aug. 27.
Tower for drying parachutes. A. B. Waterman. 2,406,724; Aug. 27.
Tower, Mobile. I. J. Kuert. 2,406,335; Aug. 27.
Tower or mast. H. Cohen. 2,406,668; Aug. 27.
Toy fisherman. L. C. Kester. 2,406,466; Aug. 27.
Transformer, Multiphase A. C. P. A. H. Mossay, B. Schwarz, and E. Barraclough. 2,406,704; Aug. 27.
Transmission and clutch means, Fluid. J. L. Landrum. 2,406,548; Aug. 27.
Transmission, Fluid. J. Jandasek. 2,406,499; Aug. 27.
Transmission system, Data. S. F. Kinkead, L. E. Melhuish, F. J. Singer, and E. M. Smith. 2,406,384; Aug. 27.
Treatment of plastic, Heat. H. A. Strickland, Jr. 2,406,714; Aug. 27.
Trimming machine. H. Hacklander. 2,406,602; Aug. 27.
Trimming machine. W. S. Reynolds. 2,406,562; Aug. 27.
Tube: *See*—
Electrical space discharge tube.
Turbosupercharger. A. J. Larrecq. 2,406,388; Aug. 27.
Tweezer implement and the like. E. A. Neugass. 2,06,393; Aug. 27.
Unloading device, Car. S. P. Kinney and L. M. Hartwick. 2,406,546; Aug. 27.
Valve: *See*—
Combined chimney and blowoff valve.
Control unit and dump valve.
Valve cap. W. J. Roberts. 2,406,563; Aug. 27.
Valve mechanism. P. J. Burchett. 2,406,662; Aug. 27.
Vaporizing means. T. L. Triplett. 2,406,517; Aug. 27.
Vanity for automobile compartments. S. J. Winslow. 2,406,450; Aug. 27.
Vegetables, Dehydrating. M. W. Miller. 2,406,431; Aug. 27.
Vibrator. R. H. Whitehead. 2,406,730; Aug. 27.
Viewing and illuminating device, Optical. A. A. Gradisar and G. E. Guellich. 2,406,538; Aug. 27.
Vinyl ester co-polymerization products. C. A. Thomas. 2,406,717; Aug. 27.
Vinyl n-butyl ether, Manufacture of. W. J. R. Evans. 2,406,674; Aug. 27.
Vulcanizer, Tire casing. H. V. James. 2,406,498; Aug. 27.
Vulcanizing unit. C. D. Davidson. 2,406,455; Aug. 27.
Warning device, Stall. R. H. Upson. 2,406,719; Aug. 27.
Water-soluble alkyl lactates, Preparing. S. M. Weisberg, E. G. Stimpson, J. Greenspan, and D. F. Othmer. 2,406,648; Aug. 27.
Wave directional, prismatic, and focusing system, Compressional. W. P. Mason. 2,406,391; Aug. 27.
Waxes. L. Auer. 2,406,336; Aug. 27.
Welding machine. R. J. Kieffer. 2,406,694; Aug. 27.
Wheel construction. G. A. Lyon. 2,406,390; Aug. 27.
Wheel truing mechanism, Grinding. L. M. Davis. 2,406,357; Aug. 27.
Winding machine, Wire. D. B. Parkinson. 2,406,397; Aug. 27.
Window, Double sash. D. Seitzman. 2,406,513; Aug. 27.
Wing, Slotted airplane. G. P. Rogers. 2,406,475; Aug. 27.
Wire-transposing device. R. Case. 2,406,663; Aug. 27.
Wool fibers, Treatment of. J. B. Speakman and T. Barr. 2,406,412; Aug. 27.
Work-guiding mechanism for sewing machines. W. Myers. 2,406,623; Aug. 27.
Wrapping wire reinforcing retainer lock. J. R. Connelly and S. W. Fish. 2,406,354; Aug. 27.
Yarn producing apparatus. M. Ottomano. 2,406,626; Aug. 27.
Yarn production. A. J. Signoret. 2,406,642; Aug. 27.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 27, 1946

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2—	12: 2,406,598	51—	145: 2,406,728	103—	115: 2,406,499	172—	179: 2,406,424	201—	55: 2,406,503	252—	251: 2,406,477
	14: 2,406,608		154: 2,406,689		149: 2,406,485		2,406,425		63: 2,406,383		254: 2,406,646
	39: 2,406,528		170: 2,406,556	106—	10: 2,406,336		2,406,426	202—	16: 2,406,509	253—	77: 2,406,703
	42: 2,406,576		214: 2,406,519		53: 2,406,580		239: 2,406,323		39.5: 2,406,695	257—	136: 2,406,643
	2,406,699		220: 2,406,467		222: 2,406,337		279: 2,406,430		42: 2,406,561	259—	72: 2,406,535
	183: 2,406,700		237: 2,406,570		256: 2,406,609	173—	269: 2,406,346		161: 2,406,375	260—	2: 2,406,621
	2,406,701		298: 2,406,385		287: 2,406,428		328: 2,406,567		205: 2,406,421		9: 2,406,558
4—	215: 2,406,507	52—	1: 2,406,572		293: 2,406,472	174—	21: 2,406,676	204—	27: 2,406,683		15: 2,406,649
	227: 2,406,314	56—	226: 2,406,706	110—	75: 2,406,398		33: 2,406,663	209—	169: 2,406,532		53: 2,406,339
	255: 2,406,317	57—	81: 2,406,530	112—	2: 2,406,623	175—	294: 2,406,411	210—	11: 2,406,413		63: 2,406,684
5—	95: 2,406,447	58—	117: 2,406,730		63: 2,406,677		2,406,584		130: Re.22,784		86: 2,406,717
	178: 2,406,496	59—	32: 2,406,694	113—	112: 2,406,310		2,406,615	211—	3: 2,406,436		91: 2,406,403
8—	70: 2,406,586		85: 2,406,712	117—	4: 2,406,707		2,406,616		178: 2,406,638		106: 2,406,338
12—	1: 2,406,462	60—	13: 2,406,656		128.4: 2,406,319		2,406,617	212—	8: 2,406,620		120: 2,406,650
	12: 2,406,463		35.6: 2,406,560		139.5: 2,406,407		315: 2,406,345	215—	63: 2,406,568		231: 2,406,369
	63: 2,406,322		52: 2,406,482		2,406,412		356: 2,406,704		95: 2,406,331		296: 2,406,594
15—	104.055: 2,406,687		2,406,510		2,406,453		372: 2,406,377	217—	69: 2,406,354		308: 2,406,591
18—	6: 2,406,455		54.5: 2,406,328		2,406,454	177—	351: 2,406,384		79: 2,406,636		2,406,654
	18: 2,406,498	61—	11: 2,406,522		2,406,542		352: 2,406,529	218—	6: 2,406,516		338: 2,406,504
	34: 2,406,359	65—	59: 2,406,669		144: 2,406,658		385: 2,406,512	219—	4: 2,406,474		342.4: 2,406,657
	2,406,361	66—	9: 2,406,525	119—	62: 2,406,432		386: 2,406,340		8: 2,406,365		404: 2,406,329
	2,406,401		98: 2,406,579	120—	36: 2,406,487	178—	44: 2,406,372		20: 2,406,715		461: 2,406,423
	39: 2,406,589	67—	22: 2,406,518		47: 2,406,330		2,406,402	220—	3.9: 2,406,587		472: 2,406,627
	47.5: 2,406,678		29: 2,406,691	121—	46.5: 2,406,524	179—	1.5: 2,406,347		44: 2,406,502		484: 2,406,590
	48: 2,406,714	70—	169: 2,406,464	122—	6.5: 2,406,399		2,406,348		45: 2,406,521		2,406,648
	61: 2,406,705		298: 2,406,332		158: 2,406,673		2,406,349		85: 2,406,540		534: 2,406,362
19—	129: 2,406,626	72—	109: 2,406,559	123—	69: 2,406,491		2,406,350		88: 2,406,373		562: 2,406,578
	2,406,641	73—	88: 2,406,386		73: 2,406,404		2,406,351		98: 2,406,573		583: 2,406,573
	2,406,642		231: 2,406,723		78: 2,406,511		2,406,352	224—	45: 2,406,711		586: 2,406,652
20—	4: 2,406,448	74—	5: 2,406,342		171: 2,406,446		2,406,353	229—	55: 2,406,660		607: 2,406,605
	35: 2,406,629		2,406,698		2,406,551		82: 2,406,360	235—	92: 2,406,603		609: 2,406,410
	48: 2,406,513		124: 2,406,664		2,406,552		100.41: 2,406,597		132: 2,406,726		614: 2,406,674
22—	72: 2,406,333		370: 2,406,417		178: 2,406,486		107: 2,406,583	238—	161.5: 2,406,452		633: 2,406,713
23—	48: 2,406,581		527: 2,406,378	125—	11: 2,406,357	181—	0.5: 2,406,391	240—	2: 2,406,538		666: 2,406,630
	87: 2,406,577	75—	82: 2,406,582	128—	2: 2,406,600	183—	44: 2,406,368		4: 2,406,480		2,406,631
	139: 2,406,666		171: 2,406,363		33: 2,406,344		77: 2,406,441		103: 2,406,725		2,406,632
	202: 2,406,465	77—	69: 2,406,442		305: 2,406,647	184—	6: 2,406,388	242—	9: 2,406,397		668: 2,406,645
	230: 2,406,611	78—	15: 2,406,392	131—	51: 2,406,675		27: 2,406,599		124: 2,406,434		671: 2,406,639
24—	30.5: 2,406,661	81—	19: 2,406,514		237: 2,406,685		55: 2,406,651		2,406,435		683.2: 2,406,668
	49: 2,406,400		43: 2,406,393	132—	14: 2,406,490	188—	33: 2,406,440	244—	13: 2,406,506		683.4: 2,406,622
	81: 2,406,665		66: 2,406,520		55: 2,406,376		152: 2,406,543		2,406,588		2,406,709
	123: 2,406,607	82—	2: 2,406,562		79: 2,406,450		234: 2,406,653		2,406,625		683.5: 2,406,633
25—	94: 2,406,619	85—	2.4: 2,406,536	134—	42: 2,406,458	189—	2: 2,406,503		40: 2,406,475		2,406,634
27—	35: 2,406,522		32: 2,406,415	135—	1: 2,406,724		11: 2,406,335		75: 2,406,374		2,406,681
29—	9: 2,406,456	88—	1: 2,406,320	137—	144: 2,406,727		35: 2,406,315		83: 2,406,356		2,406,721
	148: 2,406,686		14: 2,406,318	138—	89.3: 2,406,563		36: 2,406,501		102: 2,406,710		800: 2,406,722
	283: 2,406,445		2,406,409	144—	281: 2,406,628		43: 2,406,497		134: 2,406,367	262—	8: 2,406,546
30—	131: 2,406,610		2,406,716		309: 2,406,387	192—	17: 2,406,644		2,406,473	263—	52: 2,406,554
	252: 2,406,670		18.3: 2,406,595	146—	3: 2,406,479		58: 2,406,548	248—	311: 2,406,334	266—	19: 2,406,534
32—	14: 2,406,527		20: 2,406,596	148—	13.1: 2,406,419		61: 2,406,612		358: 2,406,601		39: 2,406,380
33—	98: 2,406,531		24: 2,406,451		19: 2,406,539		68: 2,406,414	250—	1: 2,406,316	271—	88: 2,406,489
	174: 2,406,515		39: 2,406,526	150—	3: 2,406,708	195—	66: 2,406,624		130: Re.22,784	273—	102.1: 2,406,731
	204: 2,406,341	89—	1: 2,406,461		36: 2,406,672	196—	49: 2,406,312		2,406,358	274—	10: 2,406,355
34—	5: 2,406,682		1.7: 2,406,537	154—	43.5: 2,406,592		2,406,313		2,406,371	279—	48: 2,406,444
	10: 2,406,395		41: 2,406,324		2,406,679		2,406,394	11:	2,406,396	284—	18: 2,406,662
	60: 2,406,494		2,406,343		44: 2,406,416		50: 2,406,555		2,406,406	285—	87: 2,406,488
35—	25: 2,406,574	90—	12.5: 2,406,326		83: 2,406,697		52: 2,406,547		2,406,468		90: 2,406,478
	56: 2,406,495	91—	3: 2,406,437		133: 2,406,680		2,406,613		2,406,637	287—	103: 2,406,668
36—	35: 2,406,569		49: 2,406,470	158—	28: 2,406,604		2,406,614	20:	2,406,433	290—	17: 2,406,381
	59: 2,406,476	92—	36: 2,406,618	160—	119: 2,406,720		2,406,640		2,406,635	292—	39: 2,406,459
37—	126: Re.22,783	94—	30: 2,406,557	164—	49: 2,406,418	198—	33: 2,406,311	27:	2,406,565	294—	27: 2,406,696
42—	69: 2,406,493	95—	10: 2,406,702		2,406,602	200—	5: 2,406,321	27.5:	2,406,422	299—	59: 2,406,659
44—	67: 2,406,544		31: 2,406,366		117: 2,406,508		16: 2,406,545	31:	2,406,405	300—	21: 2,406,732
	80: 2,406,667		64: 2,406,550	167—	16: 2,406,692		52: 2,406,427	36:	2,406,364	301—	37: 2,406,390
45—	28: 2,406,571	97—	189: 2,406,484	170—	135.5: 2,406,460		83: 2,406,719	251—	97: 2,406,483	302—	17: 2,406,566
46—	119: 2,406,466		212: 2,406,500		159: 2,406,457		116: 2,406,325	252—	8.75: 2,406,408	308—	187: 2,406,505
	122: 2,406,481		217: 2,406,553		2,406,471		138: 2,406,693		36: 2,406,655	309—	41: 2,406,533
47—	38: 2,406,439	99—	92: 2,406,585	171—	95: 2,406,492		140: 2,406,443		42.7: 2,406,564	315—	6: 2,406,370
48—	180: 2,406,517		204: 2,406,431		119: 2,406,429		150: 2,406,469		46.6: 2,406,575		24: 2,406,382
51—	101: 2,406,606	100—	47: 2,406,541		242: 2,406,720		166: 2,406,327		49.6: 2,406,671		
	119: 2,406,660	101—	32: 2,406,718	172—	36: 2,406,389	201—	51: 2,406,449		57: 2,406,549		
									150: 2,406,379		
									250: 2,406,420		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,406,337: 106—222	2,406,472: 106—293	2,406,542: 117—139.5	2,406,645: 260—668	2,406,684: 260— 63	2,406,697: 154— 83
2,406,339: 260— 53	2,406,494: 34— 60	2,406,588: 244— 13	2,406,650: 260—120	2,406,688: 260—683.2	2,406,712: 59— 85
2,406,403: 260— 91	2,406,500: 97—212	2,406,639: 260—671	2,406,657: 260—342.4	2,406,696: 294— 27	2,406,718: 101— 32
2,406,412: 117—139.5	2,406,537: 89—1.7				

CLASSIFICATION OF DESIGNS

D 7— 7: Des. 145,482	D42— 8: Des. 145,492	D45—19: Des. 145,476	D74— 1: Des. 145,477	D91— 3: Des. 145,499	D92—26: Des. 145,478
Des. 145,483	Des. 145,493	D48—27: Des. 145,484	Des. 145,486	D92— 1: Des. 145,485	Des. 145,479
D29—20: Des. 145,487	Des. 145,494	D58—12: Des. 145,481	D81—10: Des. 145,489	Des. 145,496	Des. 145,480
23: Des. 145,474	Des. 145,495	D61— 1: Des. 145,498	D86—10: Des. 145,491	Des. 145,497	Des. 145,488
D42— 8: Des. 145,490	D45—19: Des. 145,475	D72— 1: Des. 145,472	D87— 3: Des. 145,473		

U. S. GOVERNMENT PRINTING OFFICE: 1946

U.S. Patent Office E.R.

OFFICIAL GAZETTE

UNITED STATES PATENT OFFICE

JULY & AUG -1946

VOLUMES 588 & 589